

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090122\
 Data File : VN074239.D
 Acq On : 01 Sep 2022 13:52
 Operator : JC\MD
 Sample : N4421-11
 Misc : 5.08g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-PALM-SP-03

Quant Time: Sep 01 16:15:47 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N083022W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 31 07:02:40 2022
 Response via : Initial Calibration

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

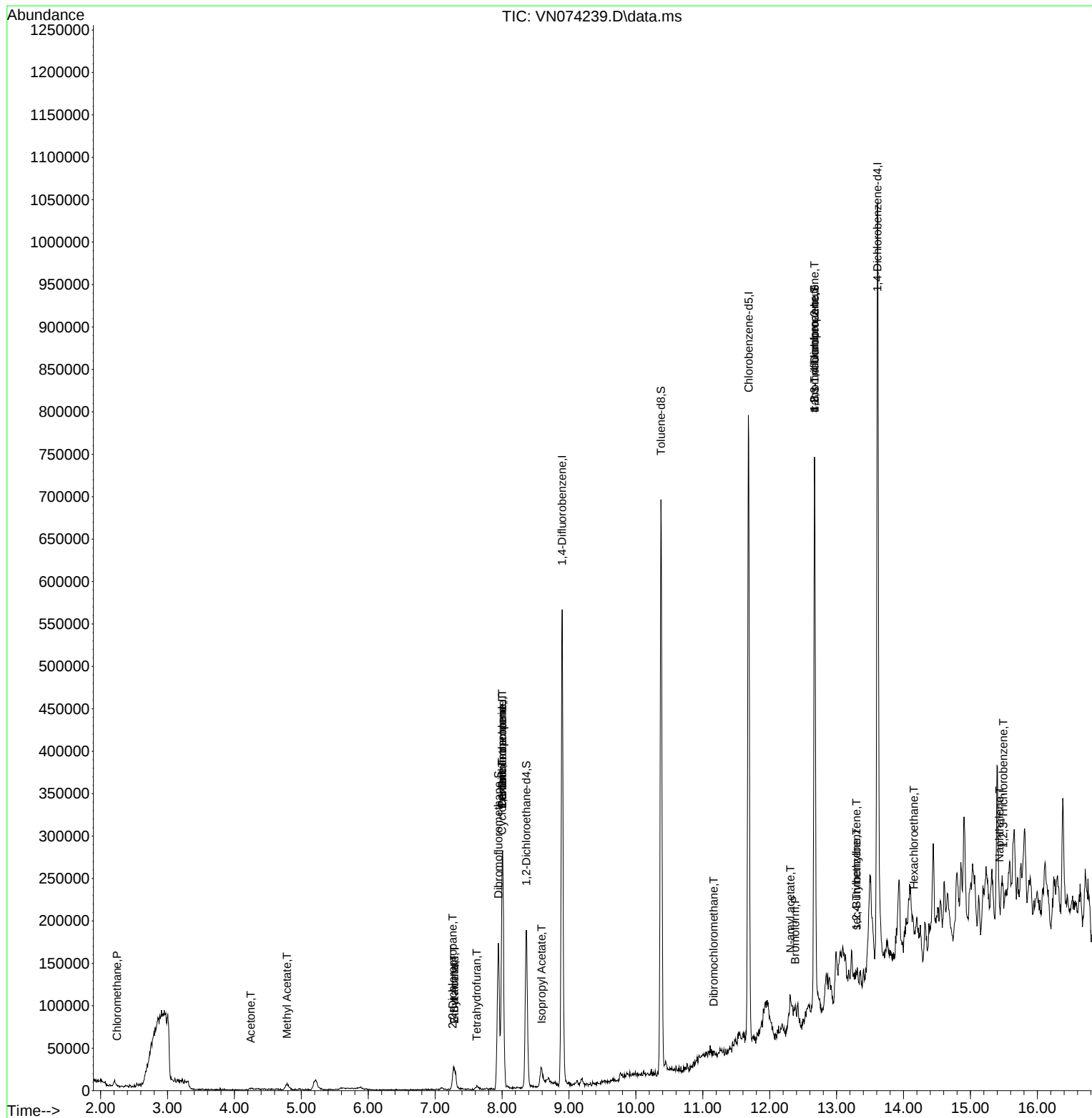
Internal Standards						
1) Pentafluorobenzene	8.004	168	212921	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.898	114	435532	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	398149	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	210665	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.363	65	144165	43.648	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	87.300%		
35) Dibromofluoromethane	7.945	113	118608	41.850	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	83.700%		
50) Toluene-d8	10.375	98	448496	40.184	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	80.360%#		
62) 4-Bromofluorobenzene	12.668	95	193070	56.884	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	113.760%		
Target Compounds					Qvalue	
3) Chloromethane	2.246	50	772	0.249	ug/l #	43
6) Chloroethane	2.940	64	1182	Below Cal	#	42
11) Tert butyl alcohol	5.298	59	530	Below Cal	#	72
16) Acetone	4.245	43	1993	0.903	ug/l #	86
18) Methyl Acetate	4.787	43	16588	0.980	ug/l #	87
20) Methylene Chloride	4.963	84	535	Below Cal	#	18
25) 2-Butanone	7.286	43	42467	12.028	ug/l #	77
26) 2,2-Dichloropropane	7.263	77	102	0.296	ug/l #	53
28) Bromochloromethane	7.434	49	102	Below Cal	#	8
29) Tetrahydrofuran	7.622	42	2543	1.131	ug/l	96
31) Cyclohexane	7.998	56	6121	1.122	ug/l #	36
36) 1,1-Dichloropropene	8.004	75	20016	4.353	ug/l #	46
37) Ethyl Acetate	7.286	43	42467	5.522	ug/l #	68
38) Carbon Tetrachloride	8.004	117	20761	4.975	ug/l #	17
43) Isopropyl Acetate	8.592	43	16756	1.621	ug/l #	53
60) Dibromochloromethane	11.163	129	1217	0.353	ug/l	75
71) Bromoform	12.380	173	1324	0.491	ug/l #	82
74) N-amyl acetate	12.310	43	6482	0.635	ug/l #	21
76) 1,2,3-Trichloropropane	12.668	75	117558	22.230	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.668	75	117558	57.922	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.298	105	8123	0.574	ug/l	80
85) sec-Butylbenzene	13.298	105	8671	0.493	ug/l	79
90) Hexachloroethane	14.157	117	1420	0.503	ug/l	64
95) Naphthalene	15.433	128	4849	1.448	ug/l #	23
96) 1,2,3-Trichlorobenzene	15.492	180	1563	0.389	ug/l	62

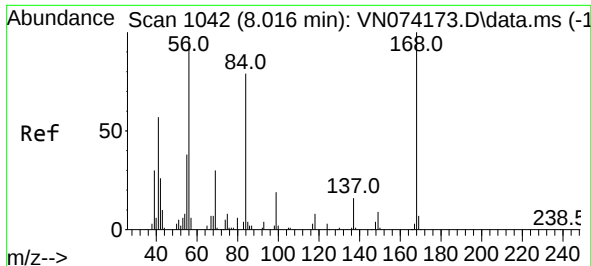
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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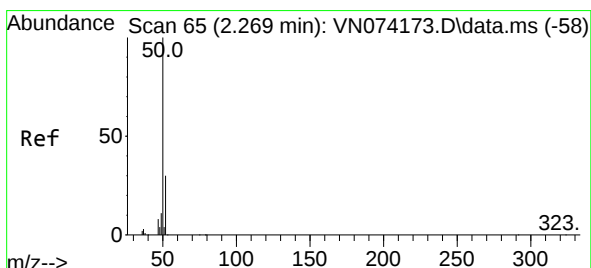
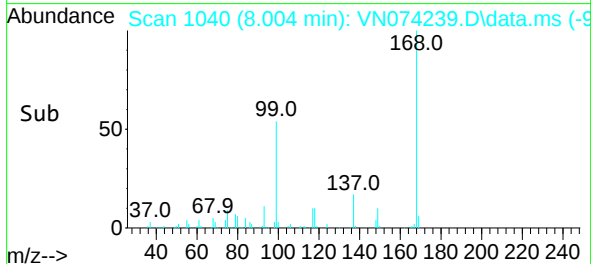
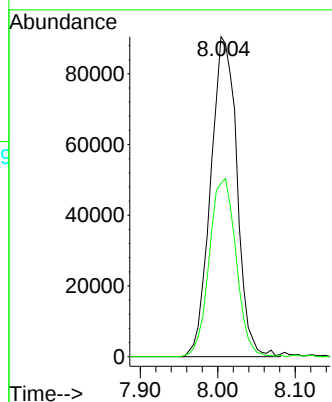
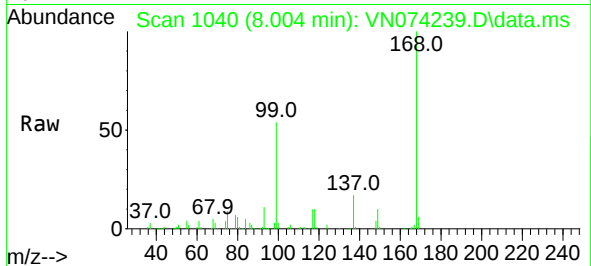




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.004 min Scan# 11
Delta R.T. -0.012 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

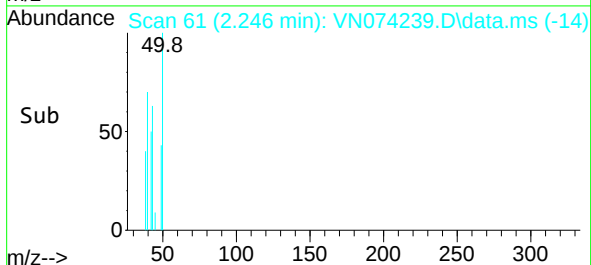
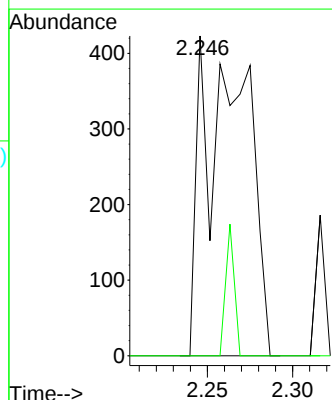
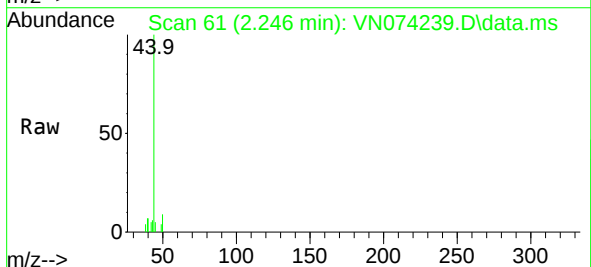
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03

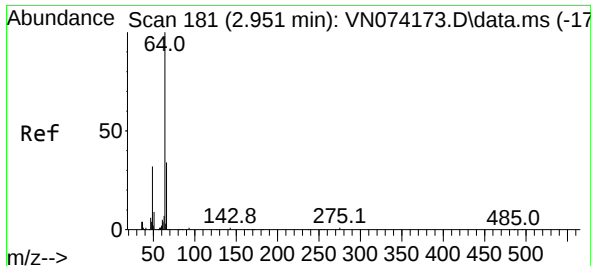
Tgt Ion:168 Resp: 212921
Ion Ratio Lower Upper
168 100
99 54.2 42.3 63.5



#3
Chloromethane
Concen: 0.249 ug/l
RT: 2.246 min Scan# 61
Delta R.T. -0.023 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

Tgt Ion: 50 Resp: 772
Ion Ratio Lower Upper
50 100
52 0.0 25.7 38.5#

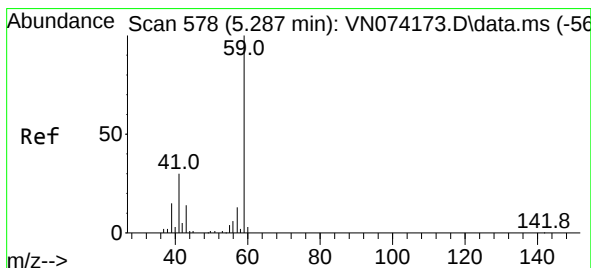
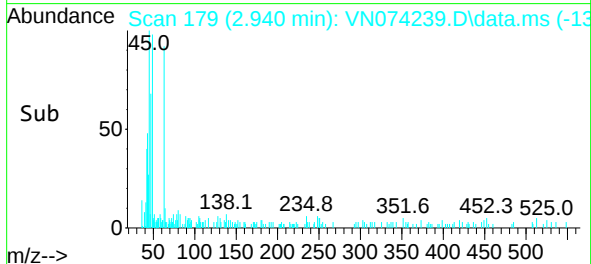
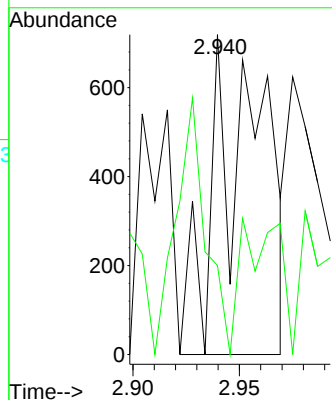
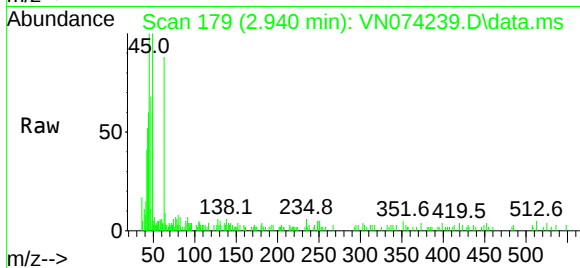




#6
Chloroethane
Concen: Below Cal
RT: 2.940 min Scan# 11
Delta R.T. -0.011 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

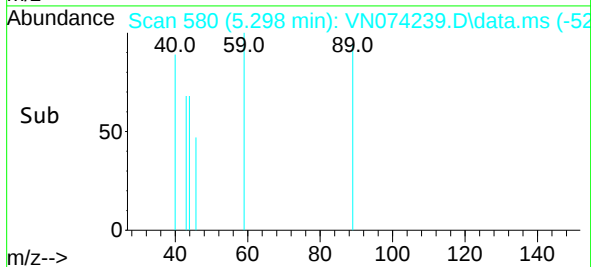
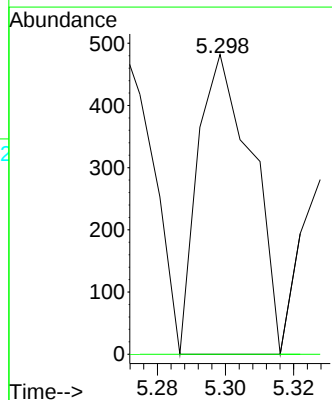
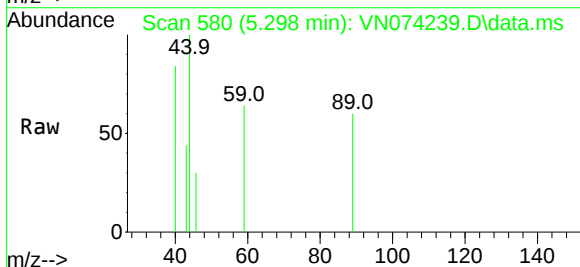
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03

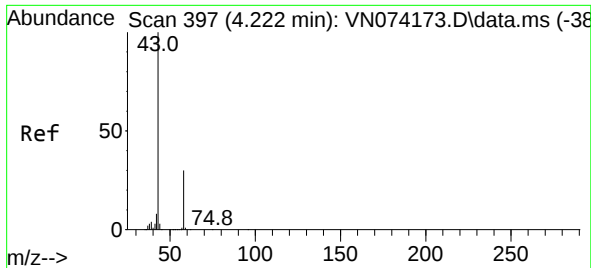
Tgt Ion: 64 Resp: 1182
Ion Ratio Lower Upper
64 100
66 0.0 26.2 39.4#



#11
Tert butyl alcohol
Concen: Below Cal
RT: 5.298 min Scan# 580
Delta R.T. 0.011 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

Tgt Ion: 59 Resp: 530
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

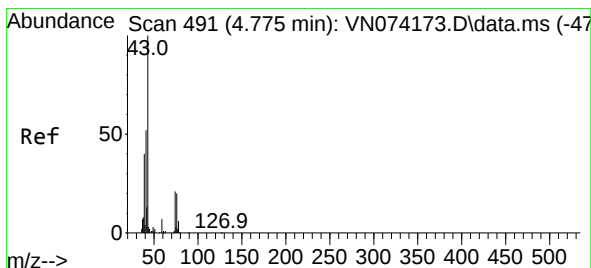
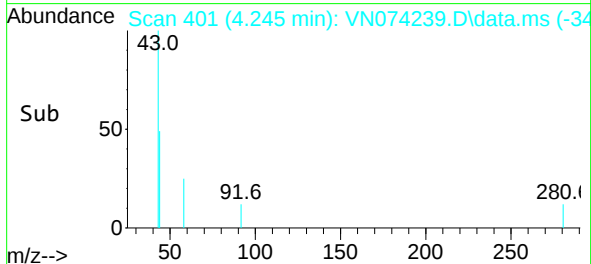
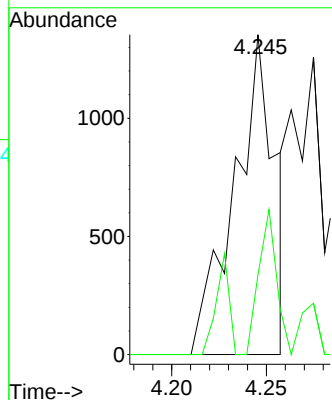
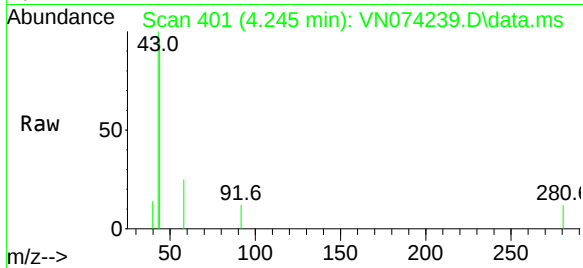




#16
Acetone
Concen: 0.903 ug/l
RT: 4.245 min Scan# 401
Delta R.T. 0.023 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

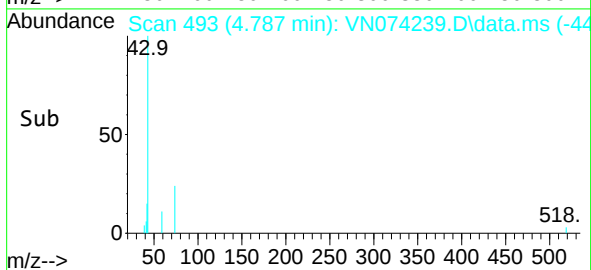
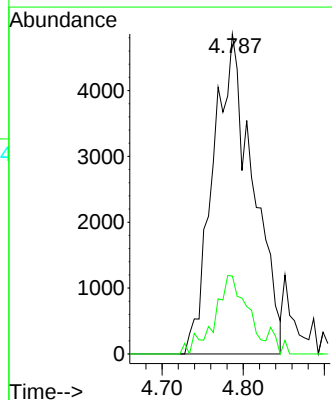
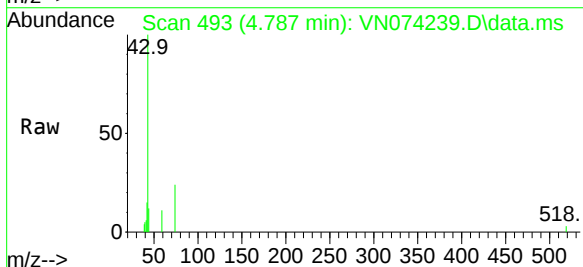
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03

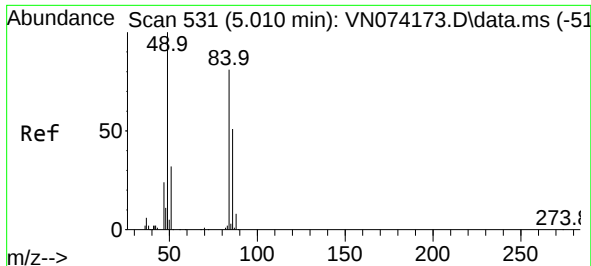
Tgt Ion: 43 Resp: 1993
Ion Ratio Lower Upper
43 100
58 24.9 26.0 39.0#



#18
Methyl Acetate
Concen: 0.980 ug/l
RT: 4.787 min Scan# 493
Delta R.T. 0.012 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

Tgt Ion: 43 Resp: 16588
Ion Ratio Lower Upper
43 100
74 20.2 21.6 32.4#

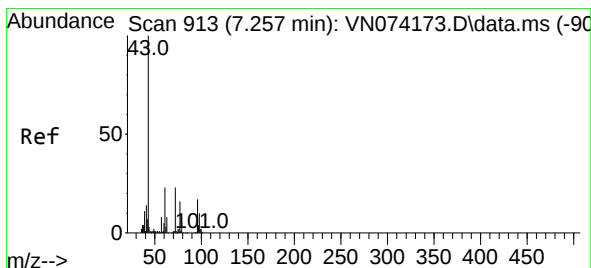
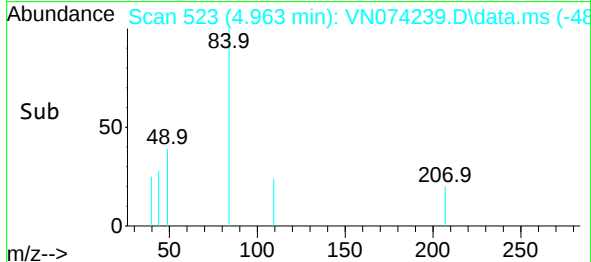
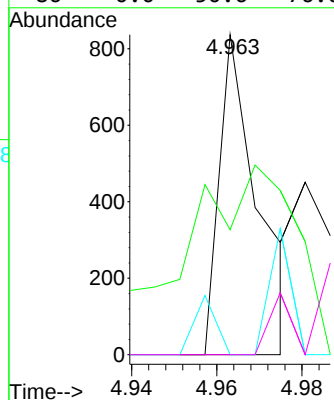
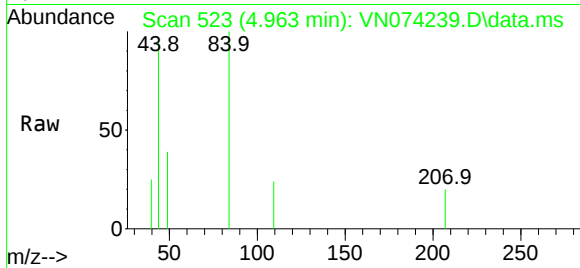




#20
Methylene Chloride
Concen: Below Cal
RT: 4.963 min Scan# 51
Delta R.T. -0.047 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

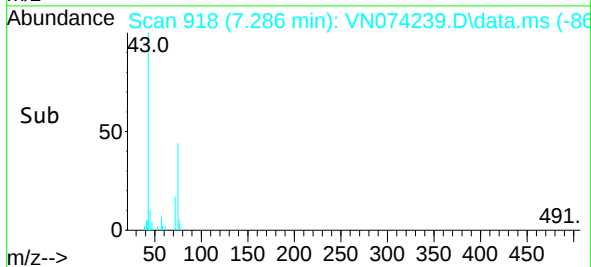
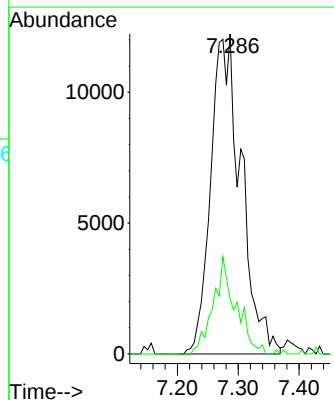
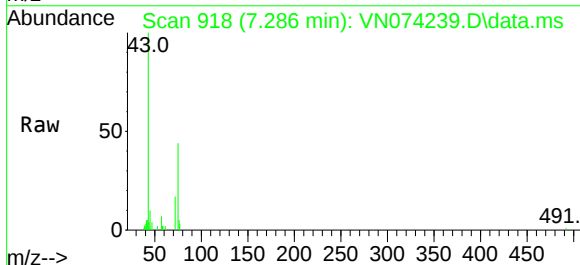
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03

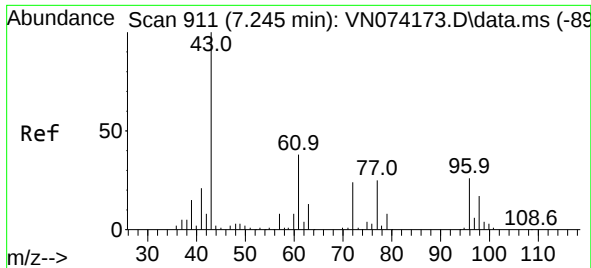
Tgt	Ion: 84	Resp:	535
Ion	Ratio	Lower	Upper
84	100		
49	15.5	88.3	132.5#
51	0.0	28.2	42.2#
86	0.0	50.6	76.0#



#25
2-Butanone
Concen: 12.028 ug/l
RT: 7.286 min Scan# 918
Delta R.T. 0.029 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

Tgt Ion: 43	Resp:	42467	
Ion Ratio	Lower	Upper	
43	100		
72	17.1	23.7	35.5#

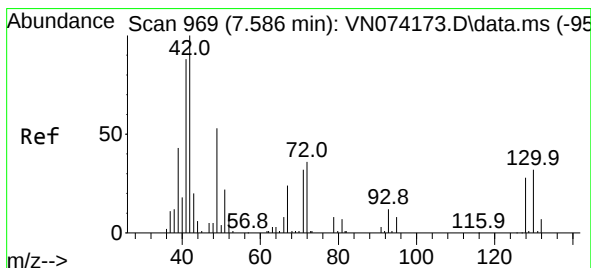
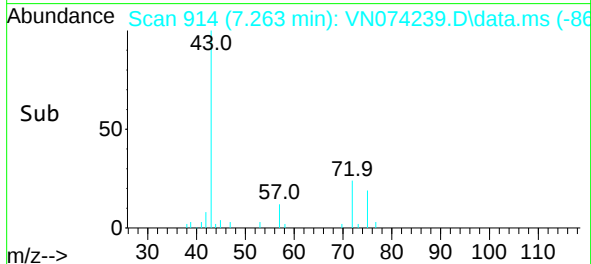
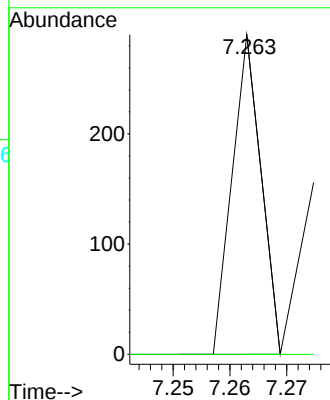
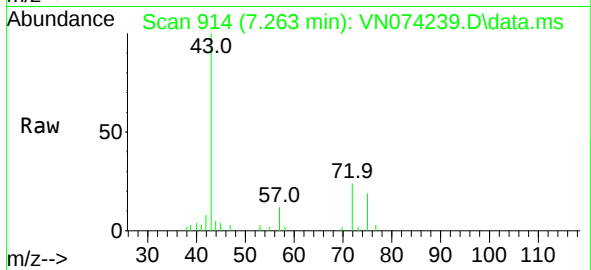




#26
2,2-Dichloropropane
Concen: 0.296 ug/l
RT: 7.263 min Scan# 911
Delta R.T. 0.018 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

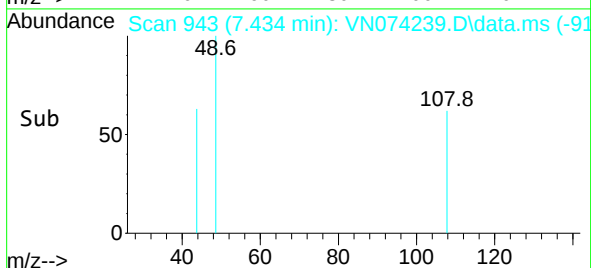
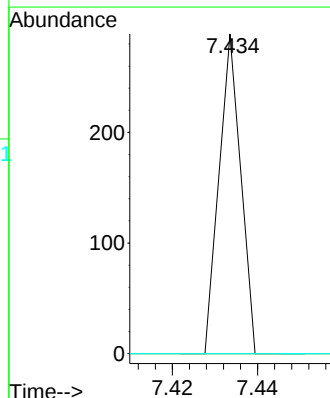
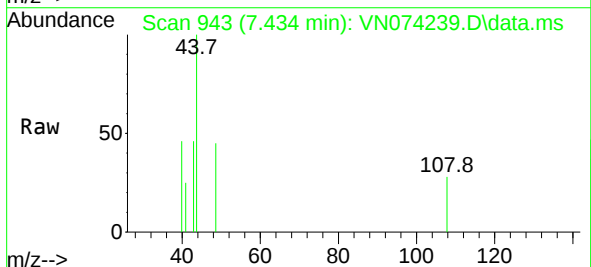
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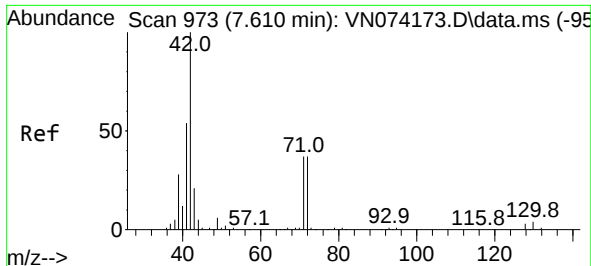
Tgt Ion: 77 Resp: 102
Ion Ratio Lower Upper
77 100
97 0.0 11.4 34.2#



#28
Bromochloromethane
Concen: Below Cal
RT: 7.434 min Scan# 943
Delta R.T. -0.152 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

Tgt Ion: 49 Resp: 102
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.6
130 0.0 69.7 104.5#





#29

Tetrahydrofuran

Concen: 1.131 ug/l

RT: 7.622 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN074239.D

Acq: 01 Sep 2022 13:52

Instrument :

MSVOA_N

ClientSampleId :

WC-PALM-SP-03

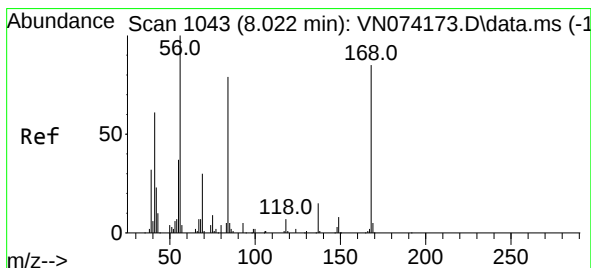
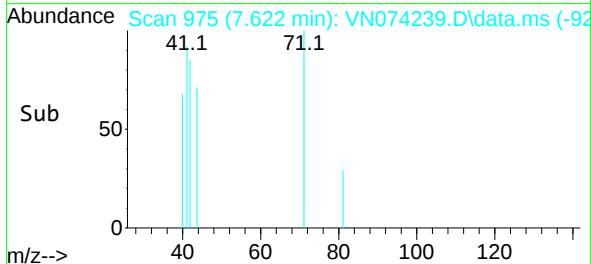
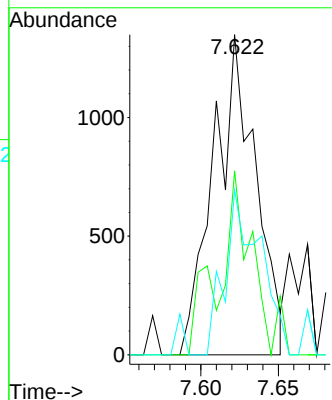
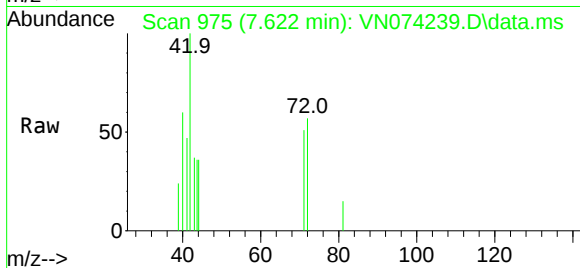
Tgt Ion: 42 Resp: 2543

Ion Ratio Lower Upper

42 100

72 46.9 39.7 59.5

71 43.3 36.6 55.0



#31

Cyclohexane

Concen: 1.122 ug/l

RT: 7.998 min Scan# 1039

Delta R.T. -0.024 min

Lab File: VN074239.D

Acq: 01 Sep 2022 13:52

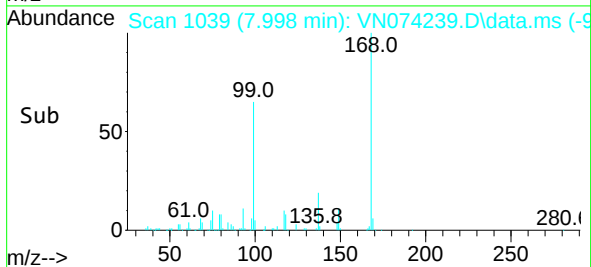
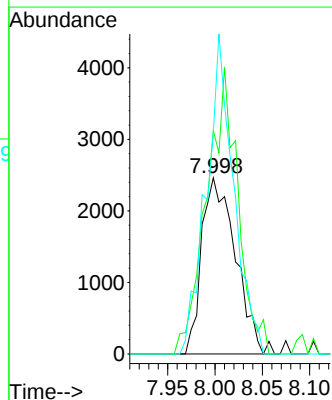
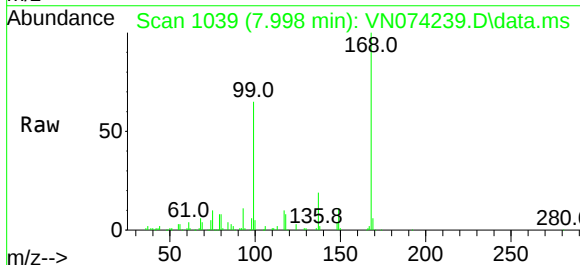
Tgt Ion: 56 Resp: 6121

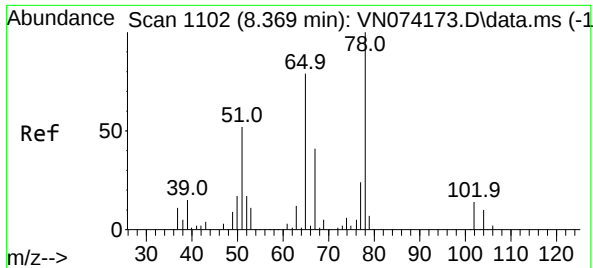
Ion Ratio Lower Upper

56 100

69 126.8 27.8 41.8#

84 125.5 76.9 115.3#





#33

1,2-Dichloroethane-d4

Concen: 43.648 ug/l

RT: 8.363 min Scan# 1102

Delta R.T. -0.006 min

Lab File: VN074239.D

Acq: 01 Sep 2022 13:52

Instrument :

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ClientSampleId :

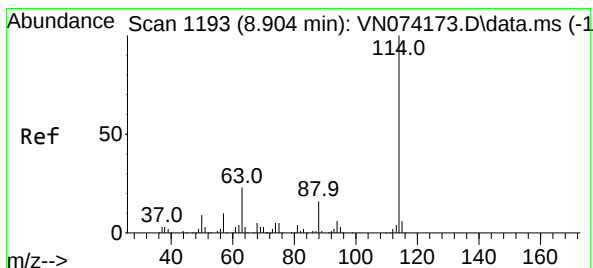
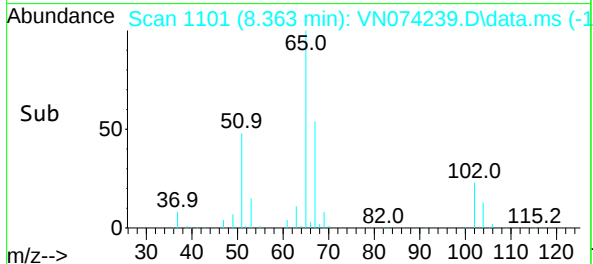
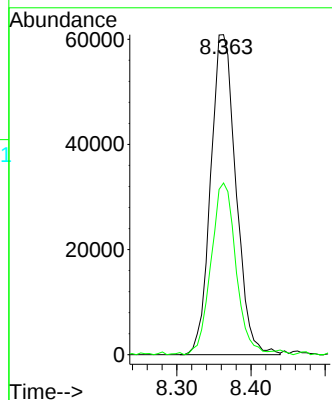
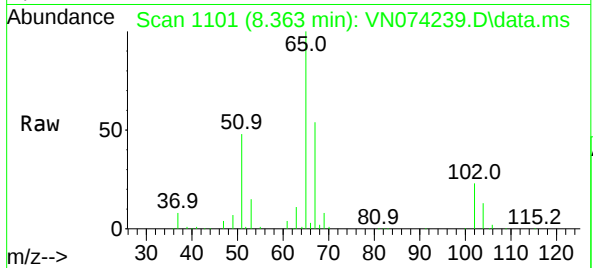
WC-PALM-SP-03

Tgt Ion: 65 Resp: 144165

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.898 min Scan# 1192

Delta R.T. -0.006 min

Lab File: VN074239.D

Acq: 01 Sep 2022 13:52

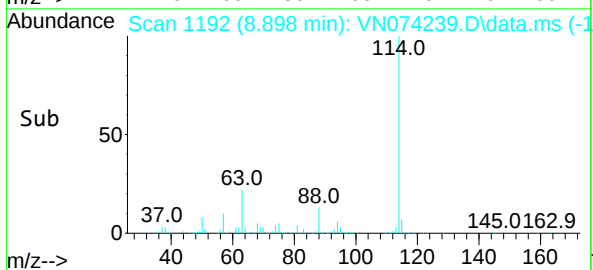
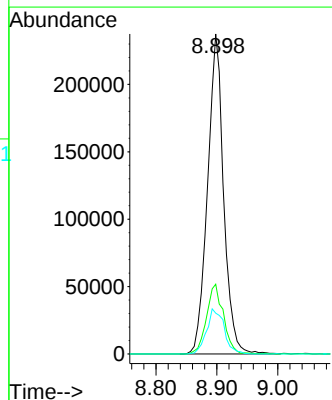
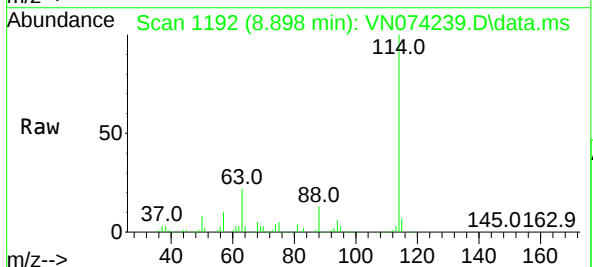
Tgt Ion: 114 Resp: 435532

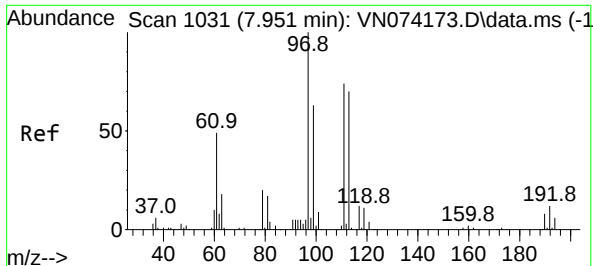
Ion Ratio Lower Upper

114 100

63 21.8 0.0 40.0

88 12.7 0.0 32.6





#35

Dibromofluoromethane

Concen: 41.850 ug/l

RT: 7.945 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN074239.D

Acq: 01 Sep 2022 13:52

Instrument :

MSVOA_N

ClientSampleId :

WC-PALM-SP-03

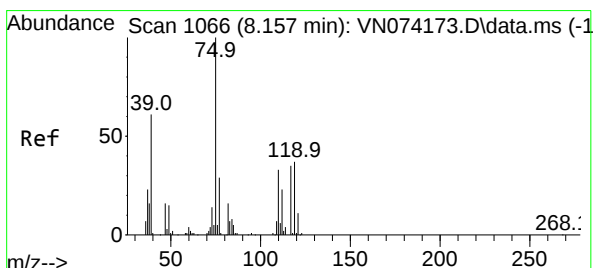
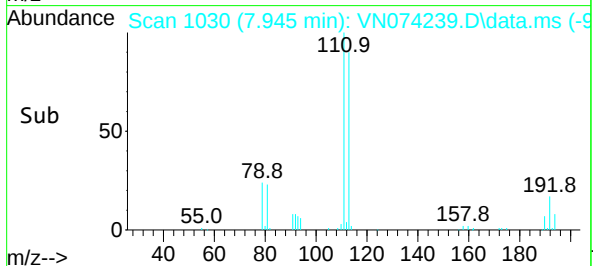
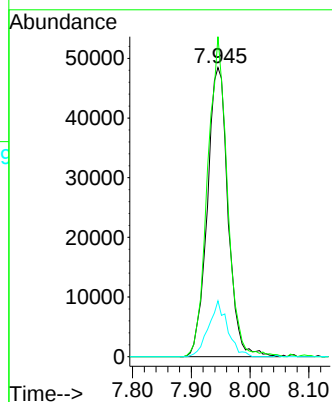
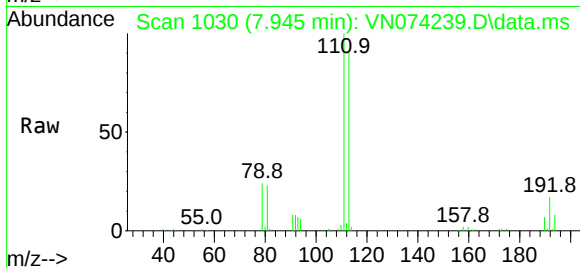
Tgt Ion:113 Resp: 118608

Ion Ratio Lower Upper

113 100

111 106.1 81.4 122.0

192 17.8 17.0 25.6



#36

1,1-Dichloropropene

Concen: 4.353 ug/l

RT: 8.004 min Scan# 1040

Delta R.T. -0.153 min

Lab File: VN074239.D

Acq: 01 Sep 2022 13:52

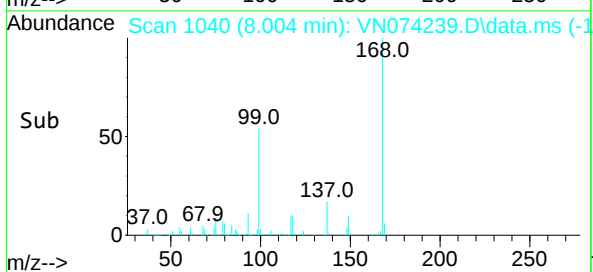
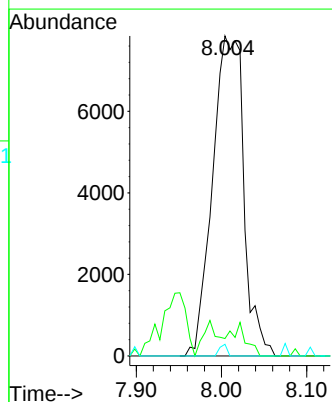
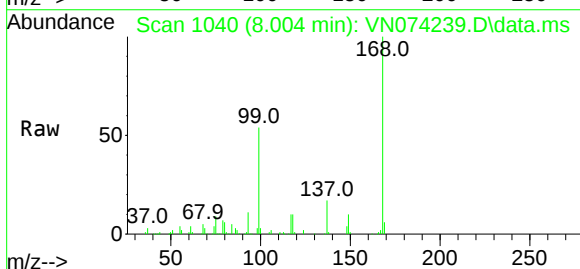
Tgt Ion: 75 Resp: 20016

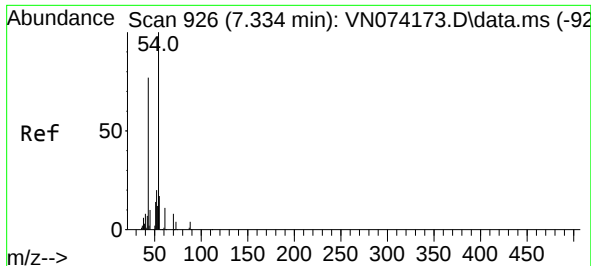
Ion Ratio Lower Upper

75 100

110 4.9 18.3 54.8#

77 0.9 25.1 37.7#





#37

Ethyl Acetate

Concen: 5.522 ug/l

RT: 7.286 min Scan# 91

Delta R.T. -0.047 min

Lab File: VN074239.D

Acq: 01 Sep 2022 13:52

Instrument :

MSVOA_N

ClientSampleId :

WC-PALM-SP-03

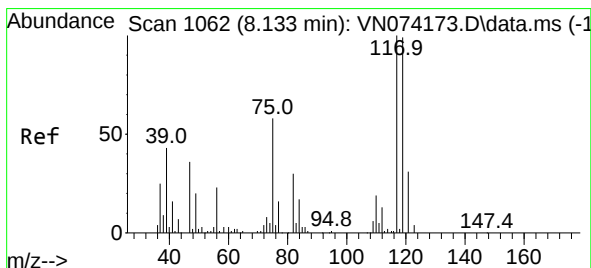
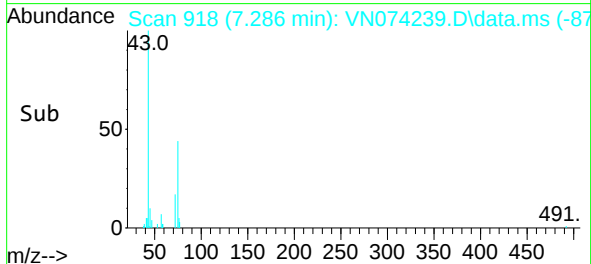
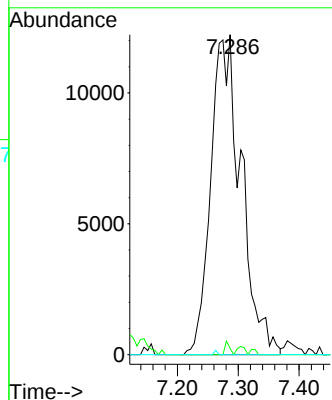
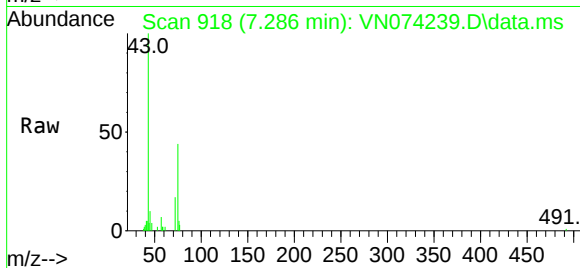
Tgt Ion: 43 Resp: 42467

Ion Ratio Lower Upper

43 100

61 0.6 11.8 17.6#

70 0.0 9.3 13.9#



#38

Carbon Tetrachloride

Concen: 4.975 ug/l

RT: 8.004 min Scan# 1040

Delta R.T. -0.129 min

Lab File: VN074239.D

Acq: 01 Sep 2022 13:52

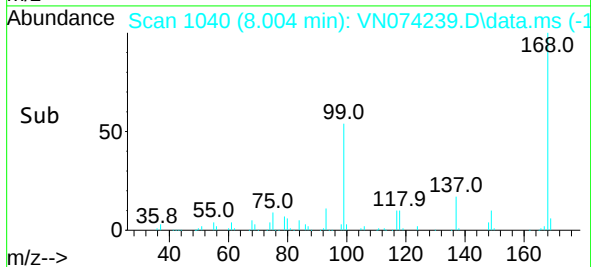
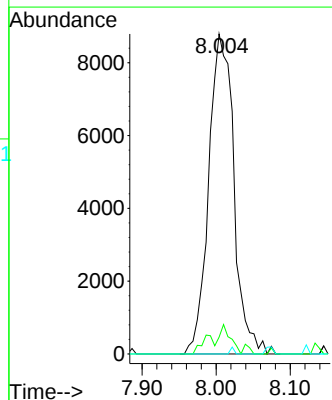
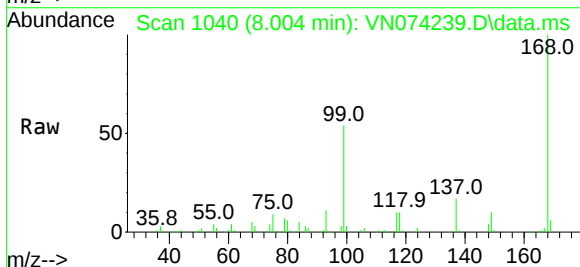
Tgt Ion: 117 Resp: 20761

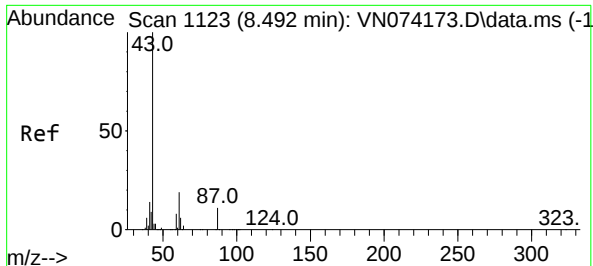
Ion Ratio Lower Upper

117 100

119 5.3 75.8 113.8#

121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 1.621 ug/l

RT: 8.592 min Scan# 1123

Delta R.T. 0.100 min

Lab File: VN074239.D

Acq: 01 Sep 2022 13:52

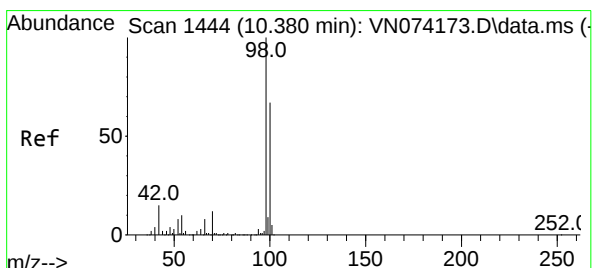
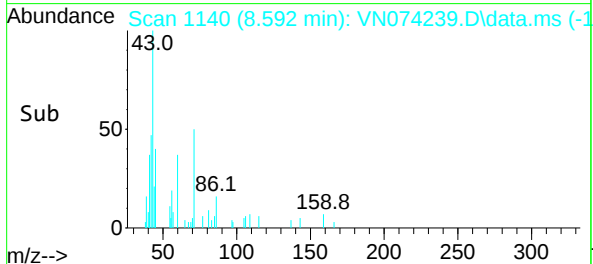
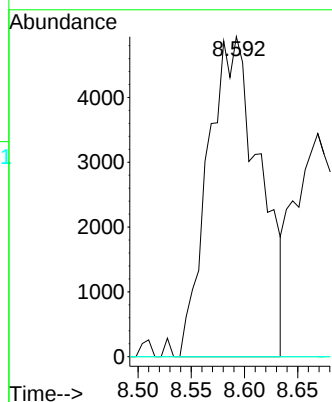
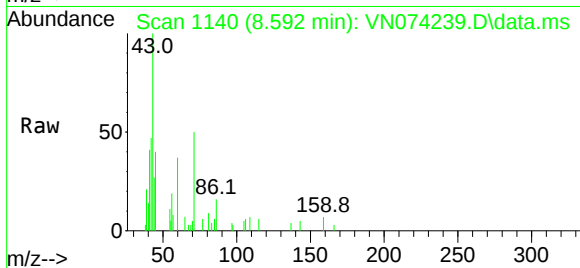
Instrument :

MSVOA_N

ClientSampleId :

WC-PALM-SP-03

Tgt Ion: 43	Resp: 16756
Ion Ratio	Lower Upper
43 100	
61 0.0	21.9 32.9#
87 0.0	12.0 18.0#



#50

Toluene-d8

Concen: 40.184 ug/l

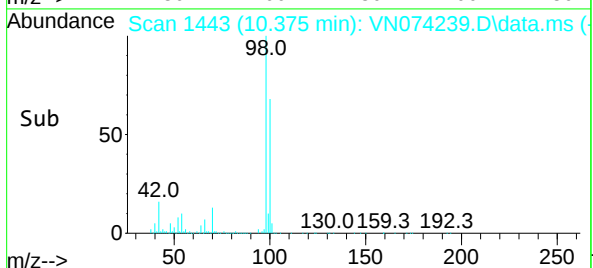
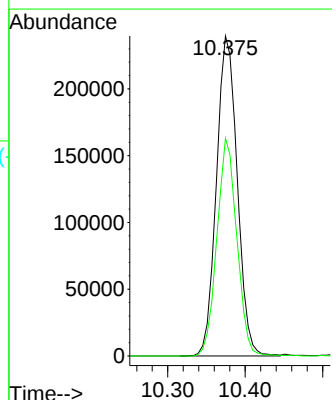
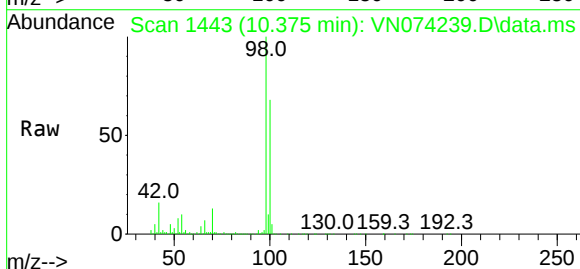
RT: 10.375 min Scan# 1443

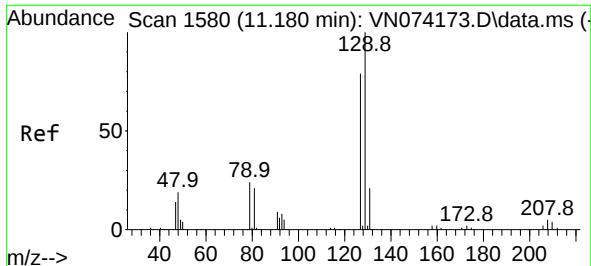
Delta R.T. -0.006 min

Lab File: VN074239.D

Acq: 01 Sep 2022 13:52

Tgt Ion: 98	Resp: 448496
Ion Ratio	Lower Upper
98 100	
100 65.1	52.6 78.8

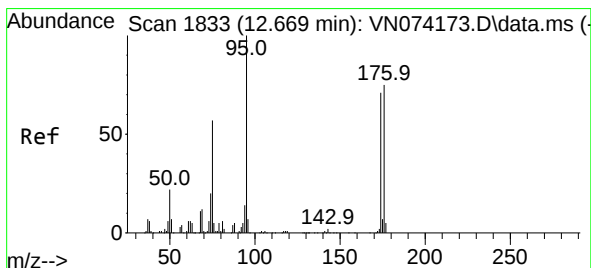
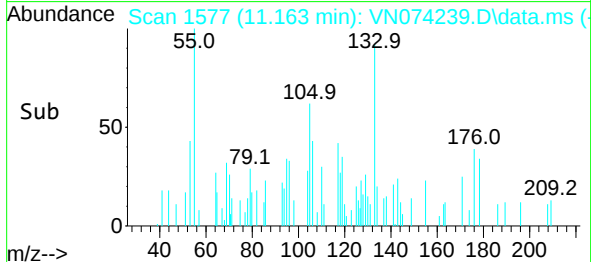
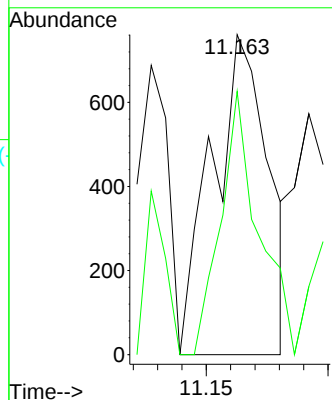
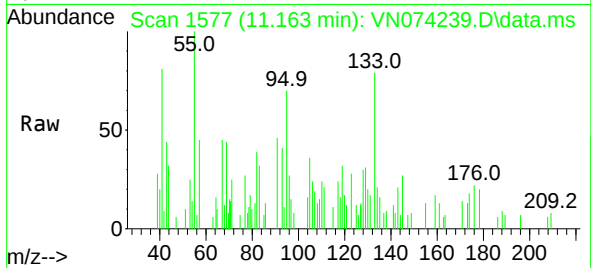




#60
Dibromochloromethane
Concen: 0.353 ug/l
RT: 11.163 min Scan# 11
Delta R.T. -0.018 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

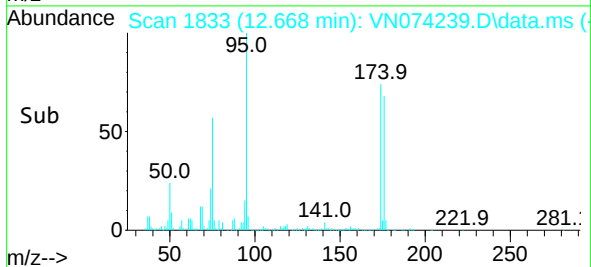
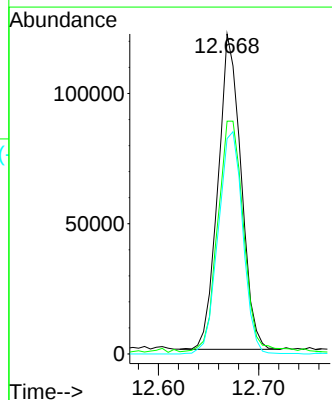
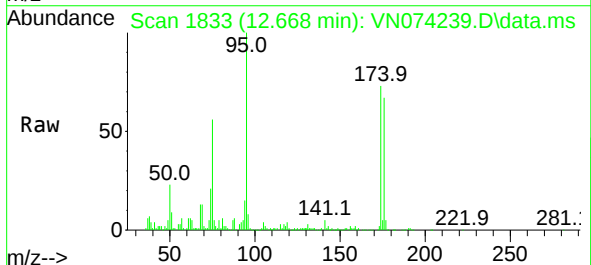
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03

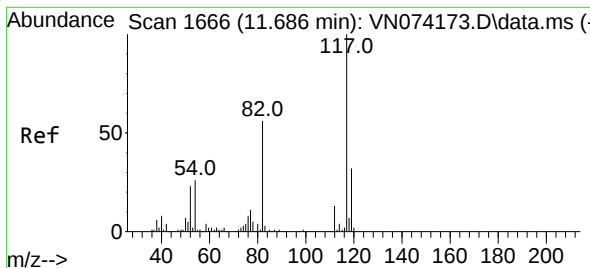
Tgt Ion:129 Resp: 1217
Ion Ratio Lower Upper
129 100
127 55.5 38.8 116.4



#62
4-Bromofluorobenzene
Concen: 56.884 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.000 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

Tgt Ion: 95 Resp: 193070
Ion Ratio Lower Upper
95 100
174 83.5 0.0 167.6
176 75.3 0.0 163.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.686 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN074239.D

Acq: 01 Sep 2022 13:52

Instrument :

MSVOA_N

ClientSampleId :

WC-PALM-SP-03

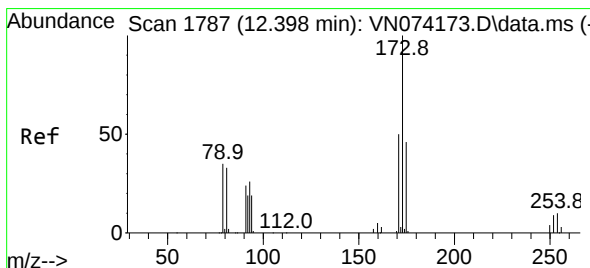
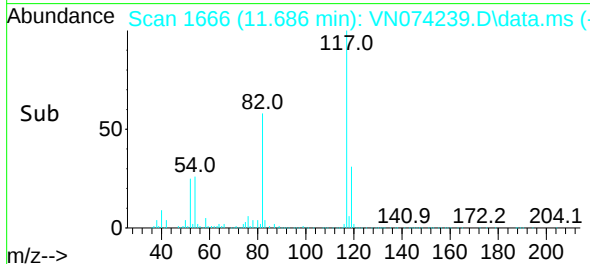
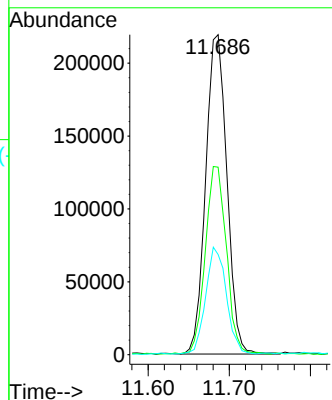
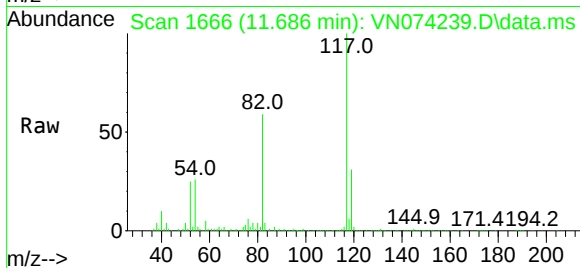
Tgt Ion:117 Resp: 398149

Ion Ratio Lower Upper

117 100

82 58.4 44.2 66.2

119 31.1 25.4 38.0



#71

Bromoform

Concen: 0.491 ug/l

RT: 12.380 min Scan# 1784

Delta R.T. -0.018 min

Lab File: VN074239.D

Acq: 01 Sep 2022 13:52

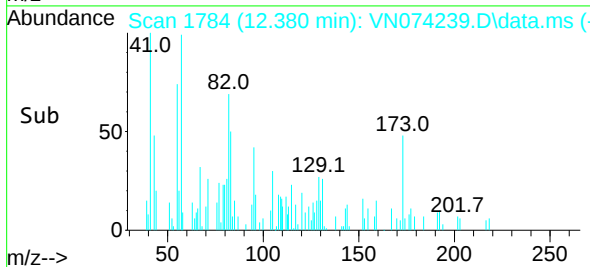
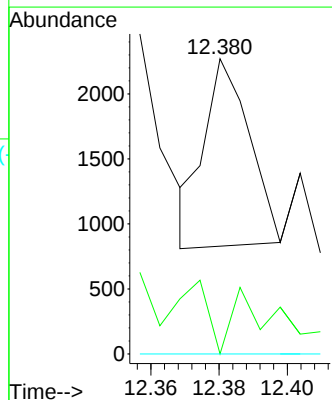
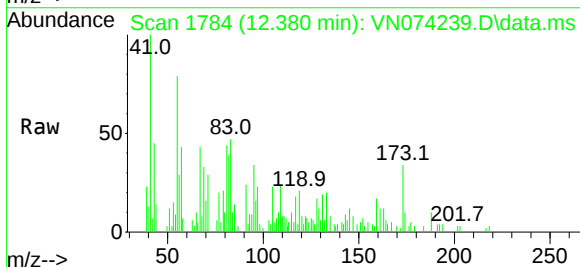
Tgt Ion:173 Resp: 1324

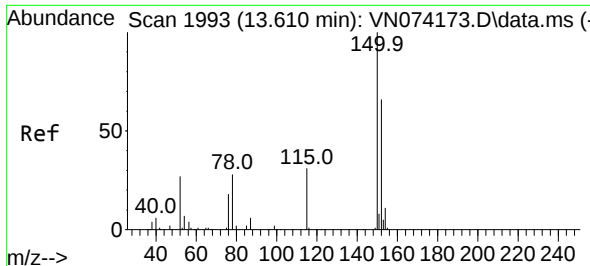
Ion Ratio Lower Upper

173 100

175 36.9 24.6 73.6

254 0.0 0.1 0.1#

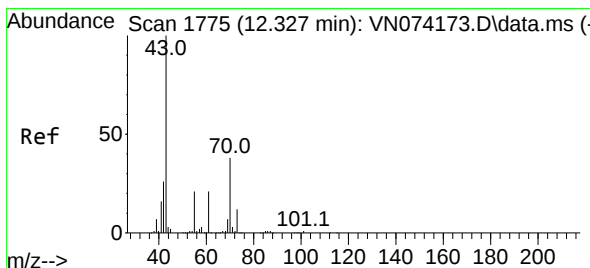
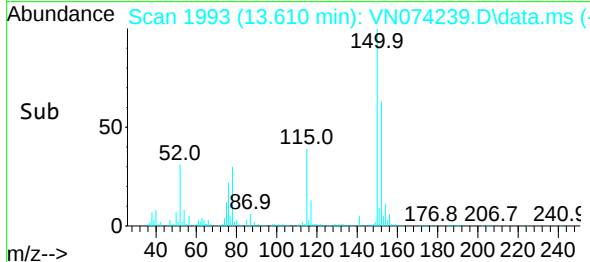
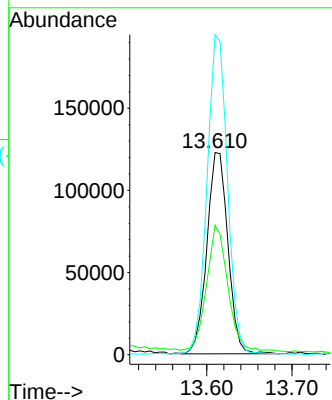
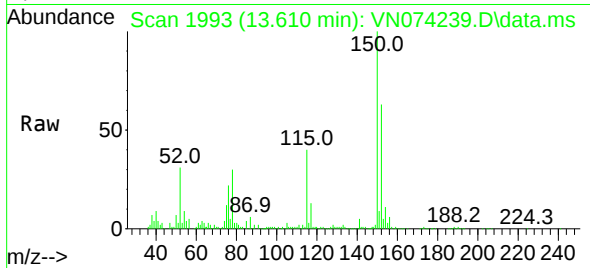




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.610 min Scan# 1993
Delta R.T. -0.000 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

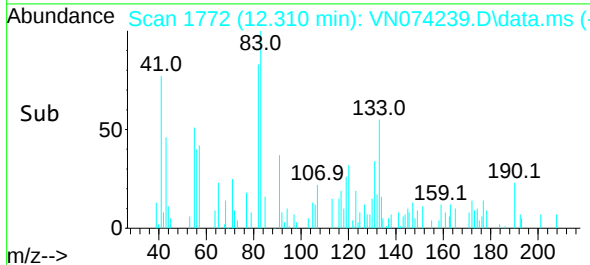
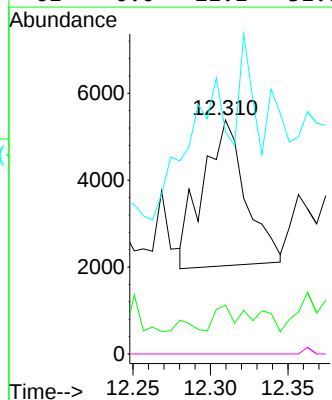
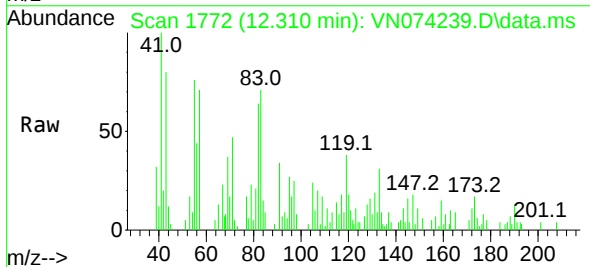
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03

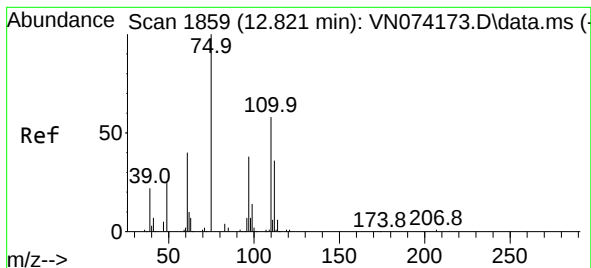
Tgt Ion:152 Resp: 210665
Ion Ratio Lower Upper
152 100
115 64.5 28.9 86.7
150 155.4 0.0 356.2



#74
N-ethyl acetate
Concen: 0.635 ug/l
RT: 12.310 min Scan# 1772
Delta R.T. -0.018 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

Tgt Ion: 43 Resp: 6482
Ion Ratio Lower Upper
43 100
70 6.9 39.0 58.4#
55 98.1 21.1 31.7#
61 0.0 21.1 31.7#

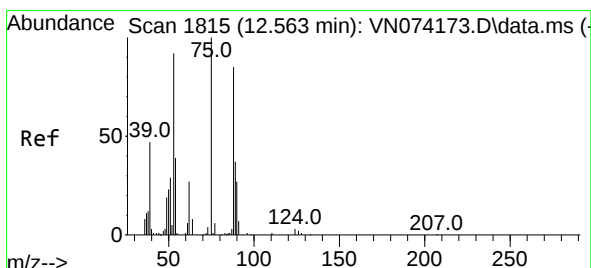
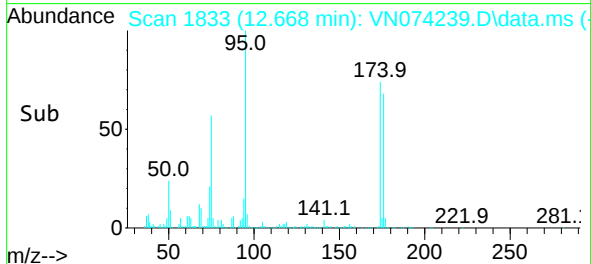
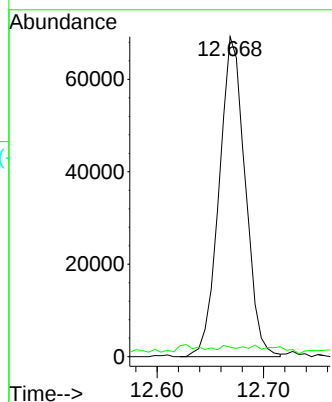
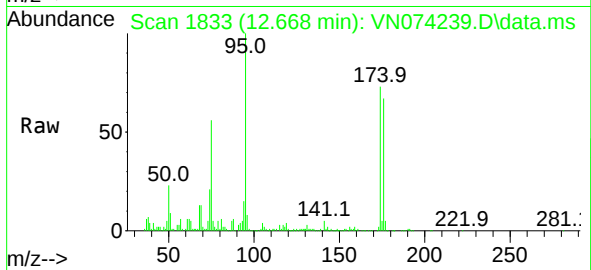




#76
1,2,3-Trichloropropane
Concen: 22.230 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. -0.153 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

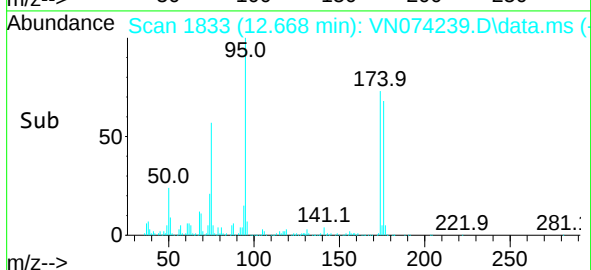
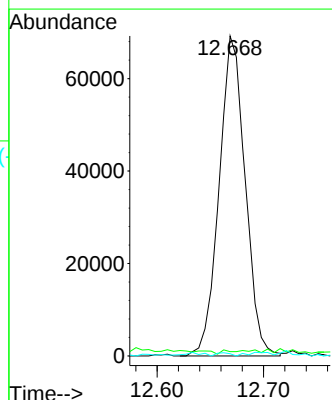
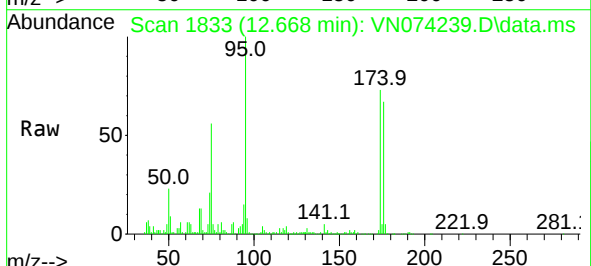
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03

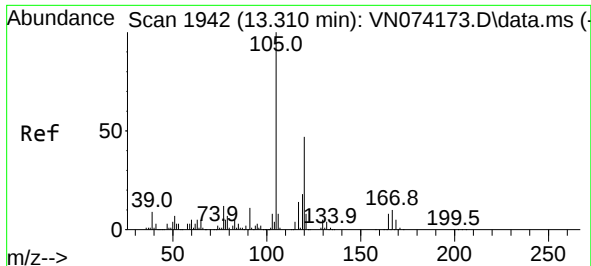
Tgt Ion: 75 Resp: 117558
Ion Ratio Lower Upper
75 100
77 0.5 98.5 295.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.922 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.106 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

Tgt Ion: 75 Resp: 117558
Ion Ratio Lower Upper
75 100
53 0.6 78.0 117.0#
89 0.5 37.2 55.8#

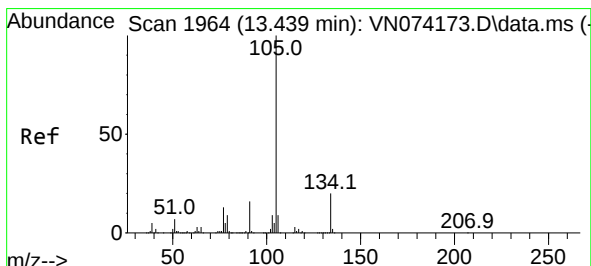
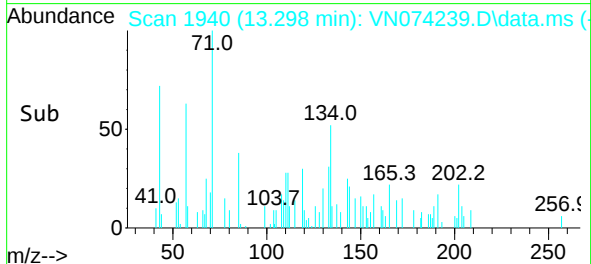
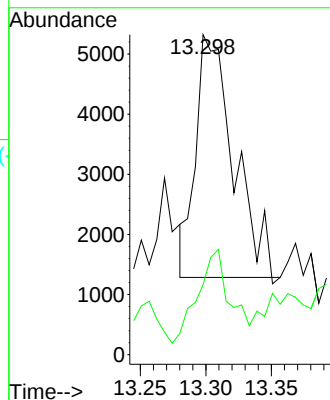
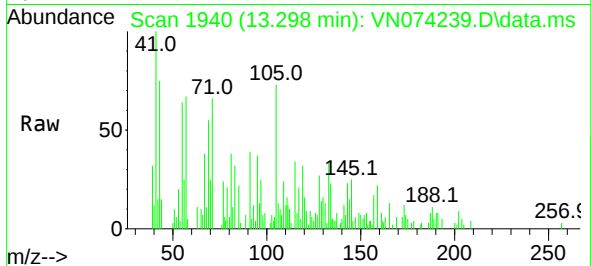




#84
1,2,4-Trimethylbenzene
Concen: 0.574 ug/l
RT: 13.298 min Scan# 1940
Delta R.T. -0.012 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

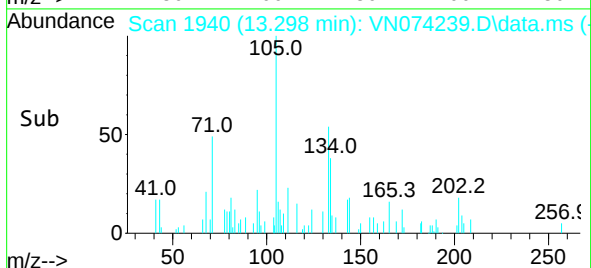
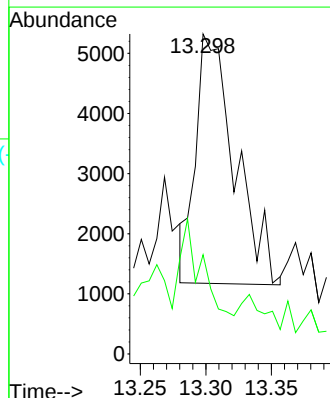
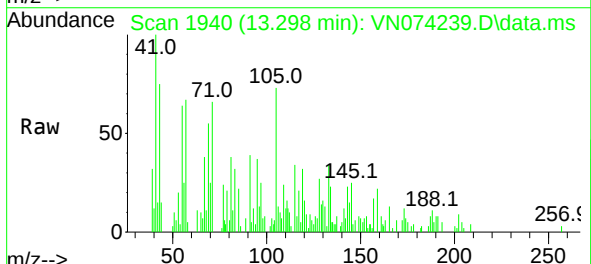
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03

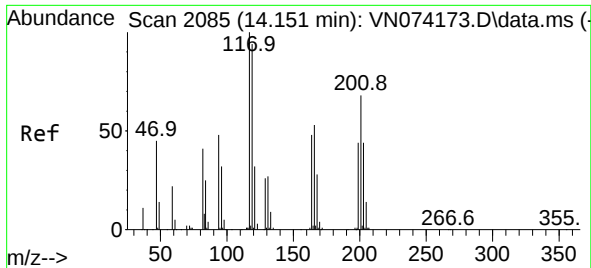
Tgt Ion:105 Resp: 8123
Ion Ratio Lower Upper
105 100
120 33.1 23.3 69.8



#85
sec-Butylbenzene
Concen: 0.493 ug/l
RT: 13.298 min Scan# 1940
Delta R.T. -0.141 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

Tgt Ion:105 Resp: 8671
Ion Ratio Lower Upper
105 100
134 30.7 10.4 31.1

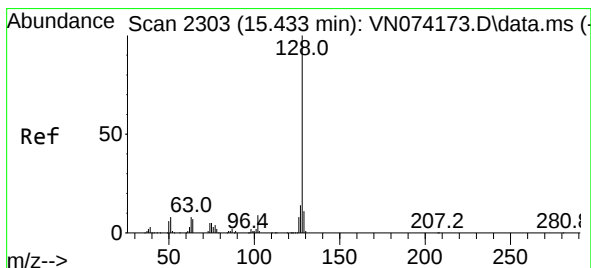
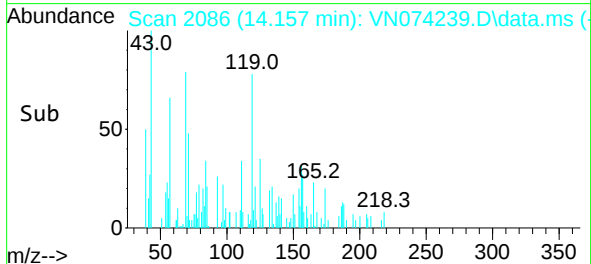
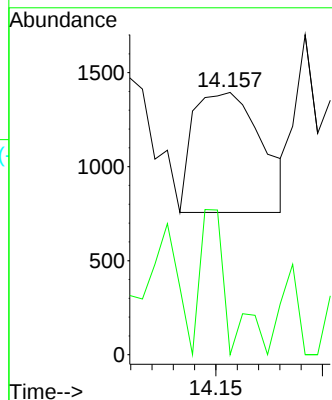
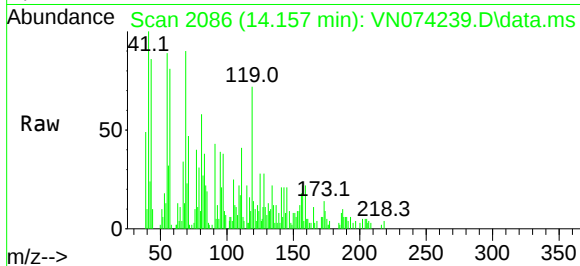




#90
Hexachloroethane
Concen: 0.503 ug/l
RT: 14.157 min Scan# 2086
Delta R.T. 0.006 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

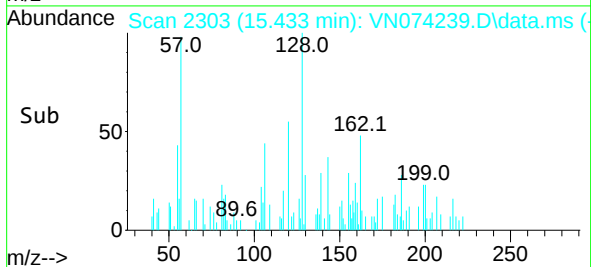
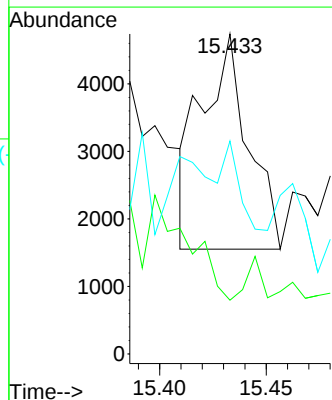
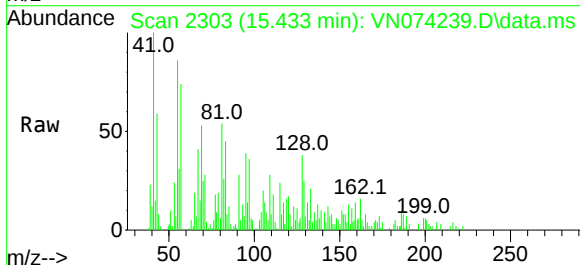
Instrument :
MSVOA_N
ClientSampleId :
WC-PALM-SP-03

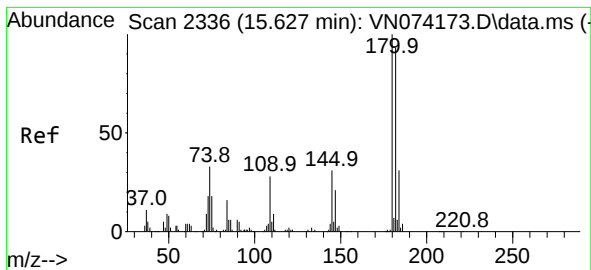
Tgt Ion:117 Resp: 1420
Ion Ratio Lower Upper
117 100
201 48.9 40.6 122.0



#95
Naphthalene
Concen: 1.448 ug/l
RT: 15.433 min Scan# 2303
Delta R.T. 0.000 min
Lab File: VN074239.D
Acq: 01 Sep 2022 13:52

Tgt Ion:128 Resp: 4849
Ion Ratio Lower Upper
128 100
127 7.1 10.3 15.5#
129 67.8 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 0.389 ug/l
 RT: 15.492 min Scan# 21
 Delta R.T. -0.135 min
 Lab File: VN074239.D
 Acq: 01 Sep 2022 13:52

Instrument :
 MSVOA_N
 ClientSampleId :
 WC-PALM-SP-03

Tgt Ion	Ratio	Lower	Upper
180	100		
182	49.3	47.8	143.3
145	25.0	15.5	46.5

