

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090122\
 Data File : VN074267.D
 Acq On : 02 Sep 2022 02:06
 Operator : JC\MD
 Sample : N4376-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 02 05:44:31 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)

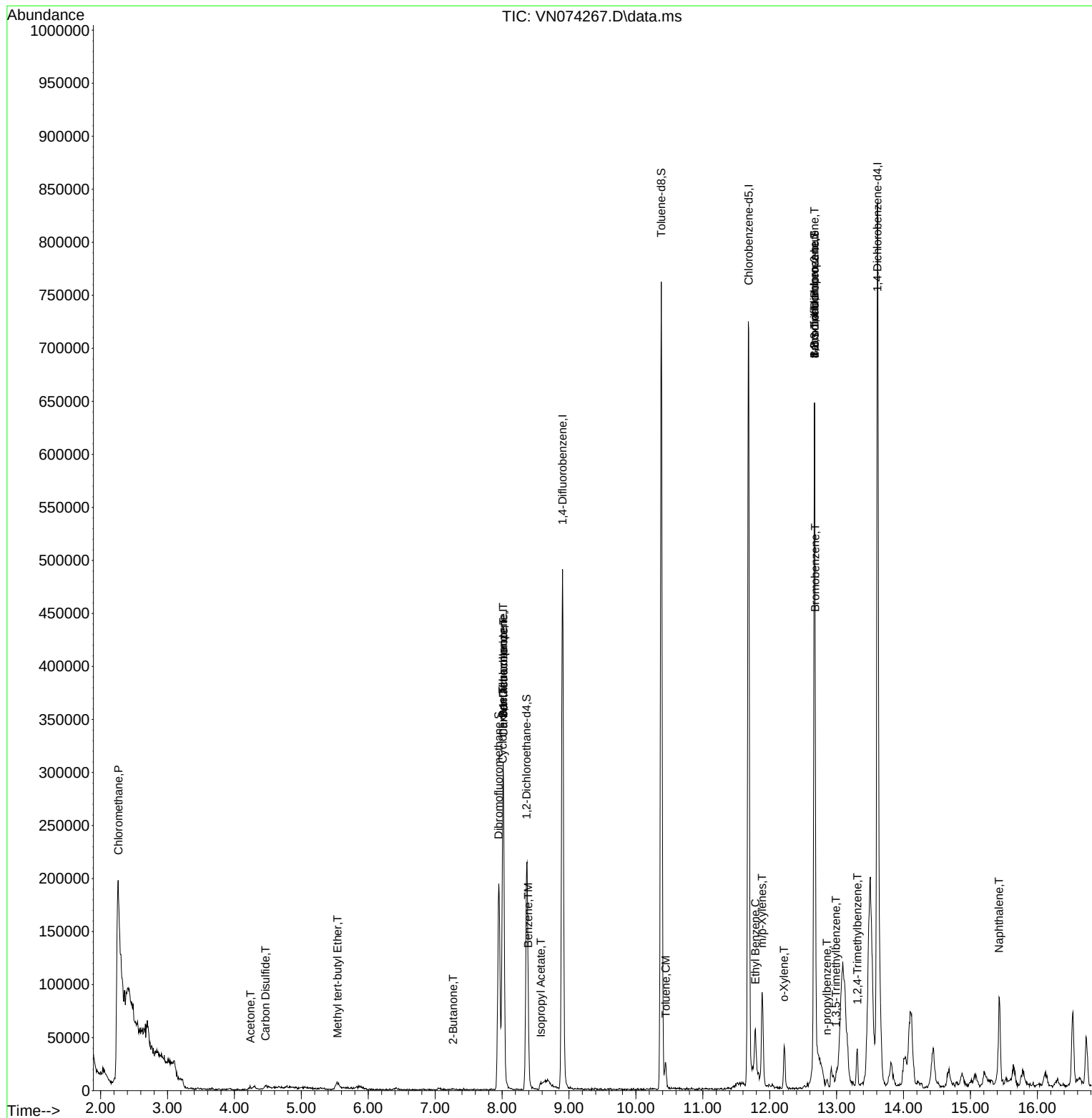
Internal Standards						
1) Pentafluorobenzene	8.016	168	219733	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.904	114	408594	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.686	117	382922	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.610	152	191685	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.369	65	166618	48.882	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.760%		
35) Dibromofluoromethane	7.951	113	139221	52.362	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.720%		
50) Toluene-d8	10.380	98	488551	46.659	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	93.320%		
62) 4-Bromofluorobenzene	12.668	95	185590	58.285	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	116.560%		
Target Compounds					Qvalue	
3) Chloromethane	2.269	50	7626	2.381	ug/l #	55
11) Tert butyl alcohol	5.287	59	594	Below Cal		98
16) Acetone	4.240	43	2509	1.102	ug/l #	55
17) Carbon Disulfide	4.463	76	3644	0.497	ug/l #	75
18) Methyl Acetate	4.787	43	1492	Below Cal	#	87
19) Methyl tert-butyl Ether	5.540	73	9176	0.963	ug/l #	88
20) Methylene Chloride	4.992	84	64	Below Cal	#	59
25) 2-Butanone	7.269	43	1400	0.384	ug/l #	45
28) Bromochloromethane	7.363	49	64	Below Cal	#	8
31) Cyclohexane	8.010	56	7387	1.312	ug/l #	64
36) 1,1-Dichloropropene	8.016	75	21087	4.888	ug/l #	46
38) Carbon Tetrachloride	8.022	117	22270	5.686	ug/l #	16
40) Benzene	8.392	78	7682	0.567	ug/l #	70
43) Isopropyl Acetate	8.581	43	4684	0.483	ug/l #	53
52) Toluene	10.445	92	9088	1.138	ug/l	90
67) Ethyl Benzene	11.786	91	24603	1.591	ug/l	89
68) m/p-Xylenes	11.886	106	27976	4.870	ug/l	94
69) o-Xylene	12.216	106	10772	1.882	ug/l	92
71) Bromoform	12.668	173	2830	1.091	ug/l #	1
76) 1,2,3-Trichloropropane	12.668	75	110003	22.924	ug/l #	1
77) Bromobenzene	12.680	156	22272	5.800	ug/l #	1
78) n-propylbenzene	12.857	91	6390	0.341	ug/l	91
80) 1,3,5-Trimethylbenzene	12.992	105	3621	0.271	ug/l	77
81) trans-1,4-Dichloro-2-b...	12.668	75	110003	59.567	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.310	105	18485	1.435	ug/l	93
95) Naphthalene	15.427	128	76980	6.322	ug/l	98

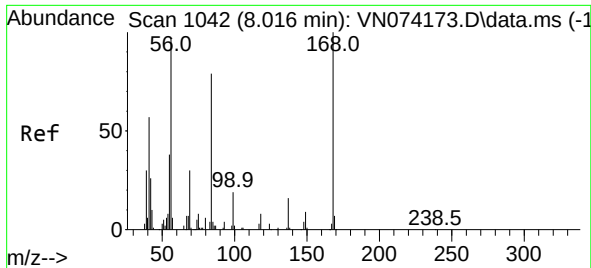
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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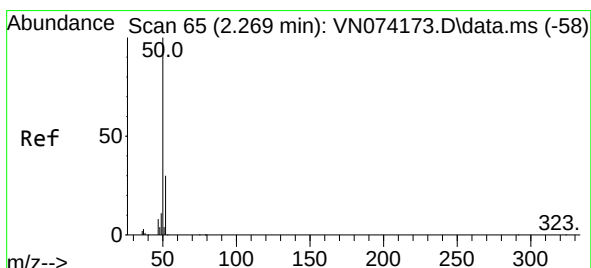
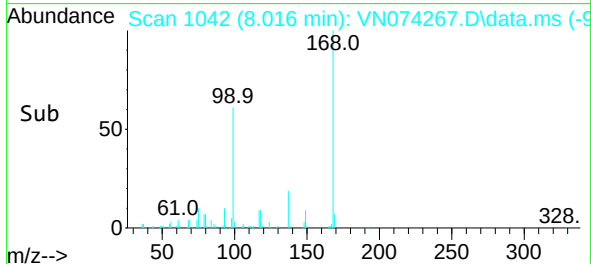
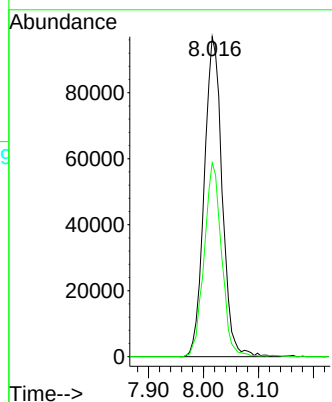
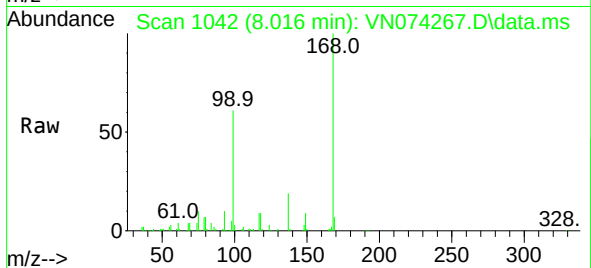




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.000 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

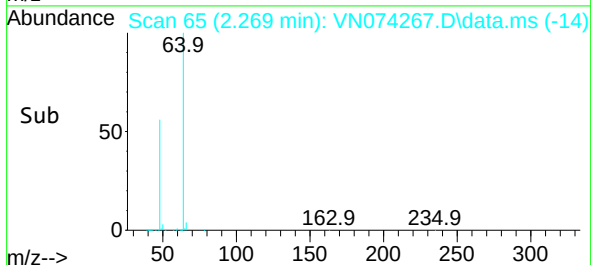
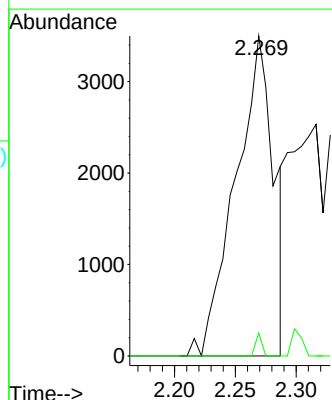
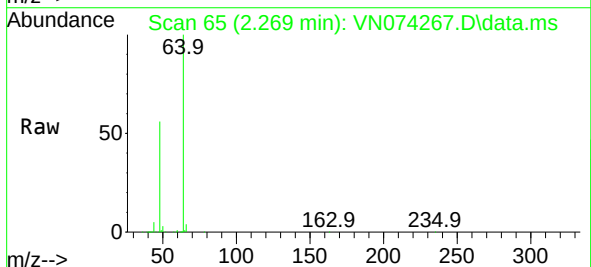
Instrument :
MSVOA_N
ClientSampleId :

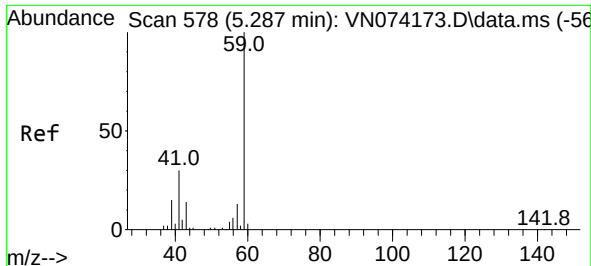
Tgt Ion:168 Resp: 219733
Ion Ratio Lower Upper
168 100
99 60.6 42.3 63.5



#3
Chloromethane
Concen: 2.381 ug/l
RT: 2.269 min Scan# 65
Delta R.T. 0.000 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

Tgt Ion: 50 Resp: 7626
Ion Ratio Lower Upper
50 100
52 7.2 25.7 38.5#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.287 min Scan# 51

Delta R.T. -0.000 min

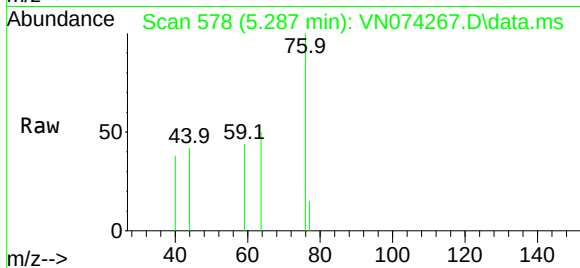
Lab File: VN074267.D

Acq: 02 Sep 2022 02:06

Instrument :

MSVOA_N

ClientSampleId :

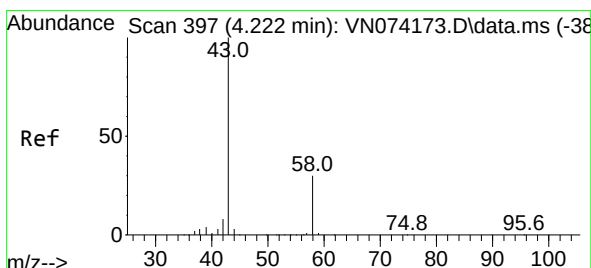
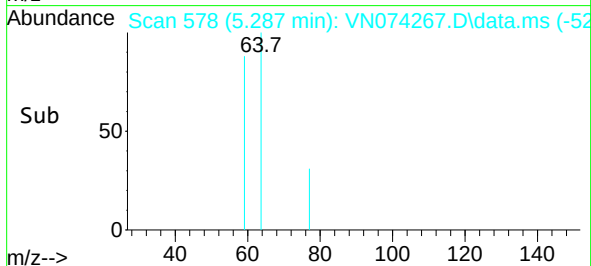
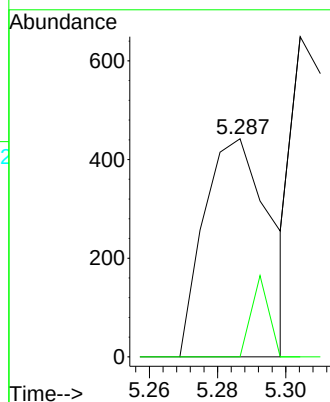


Tgt Ion: 59 Resp: 594

Ion Ratio Lower Upper

59 100

57 9.8 8.3 12.5



#16

Acetone

Concen: 1.102 ug/l

RT: 4.240 min Scan# 400

Delta R.T. 0.018 min

Lab File: VN074267.D

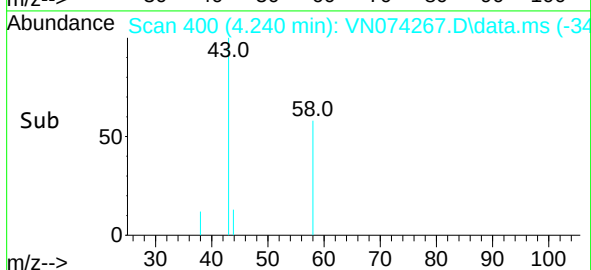
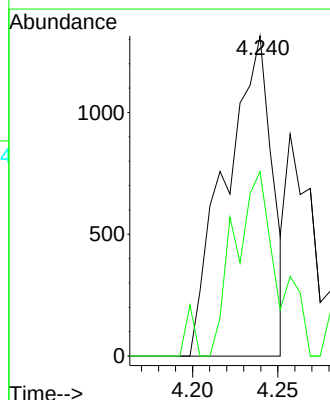
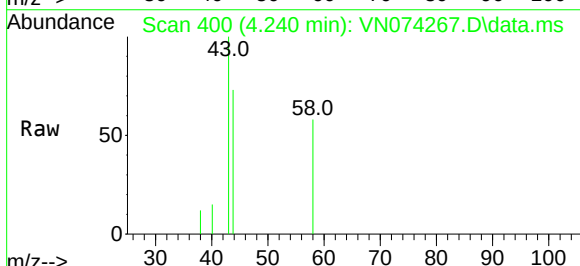
Acq: 02 Sep 2022 02:06

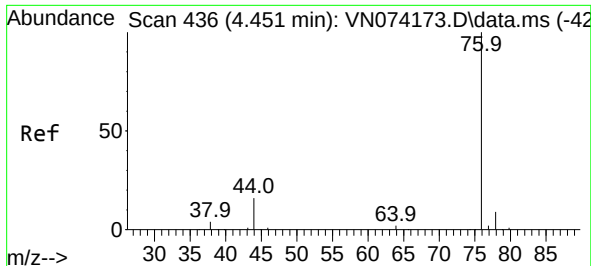
Tgt Ion: 43 Resp: 2509

Ion Ratio Lower Upper

43 100

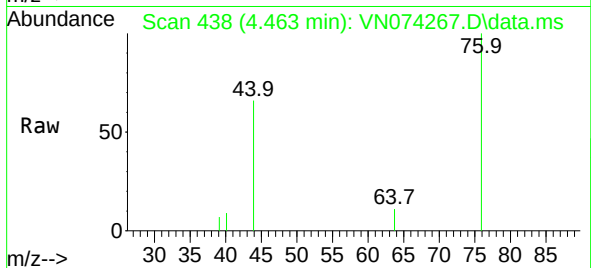
58 57.6 26.0 39.0#



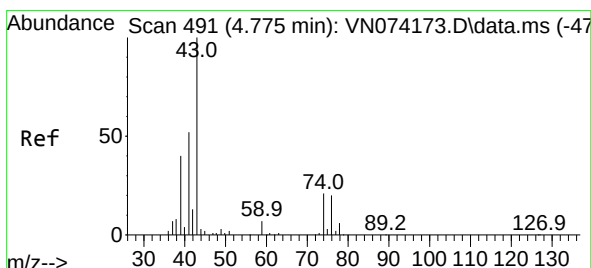
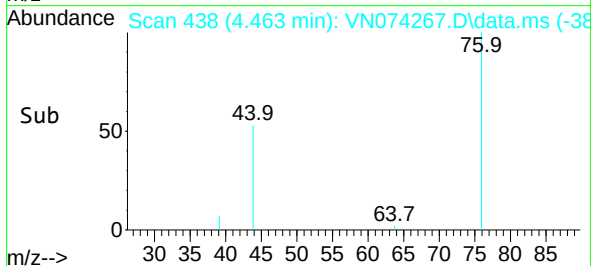
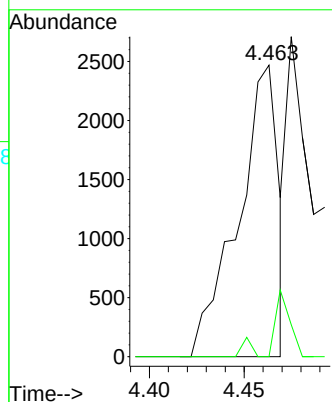


#17
Carbon Disulfide
Concen: 0.497 ug/l
RT: 4.463 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

Instrument :
MSVOA_N
ClientSampleId :

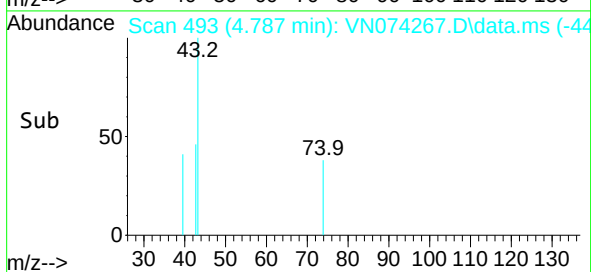
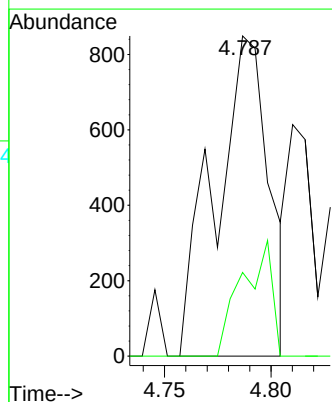
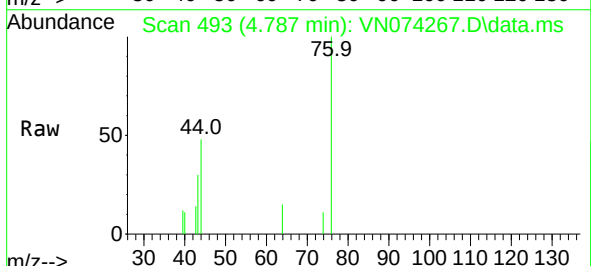


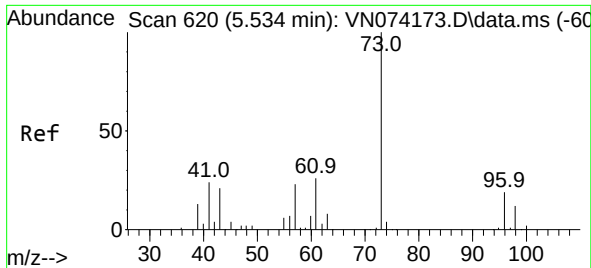
Tgt Ion: 76 Resp: 3644
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: Below Cal
RT: 4.787 min Scan# 493
Delta R.T. 0.012 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

Tgt Ion: 43 Resp: 1492
Ion Ratio Lower Upper
43 100
74 20.3 21.6 32.4#





#19

Methyl tert-butyl Ether

Concen: 0.963 ug/l

RT: 5.540 min Scan# 61

Delta R.T. 0.006 min

Lab File: VN074267.D

Acq: 02 Sep 2022 02:06

Instrument :

MSVOA_N

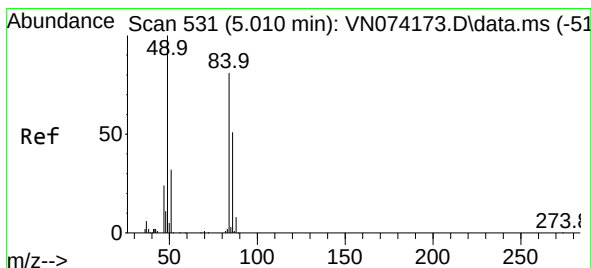
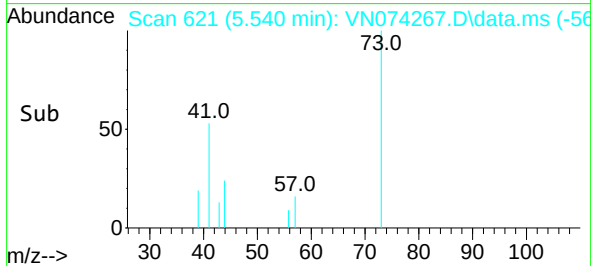
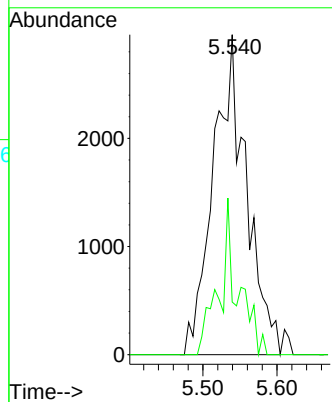
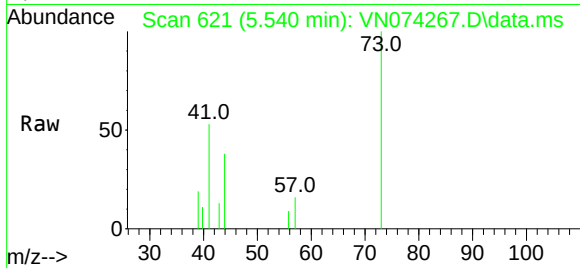
ClientSampleId :

Tgt Ion: 73 Resp: 9176

Ion Ratio Lower Upper

73 100

57 16.4 17.6 26.4#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.992 min Scan# 528

Delta R.T. -0.018 min

Lab File: VN074267.D

Acq: 02 Sep 2022 02:06

Tgt Ion: 84 Resp: 64

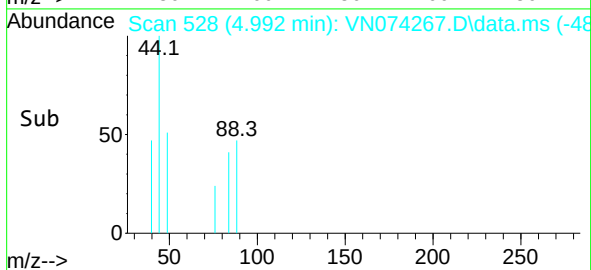
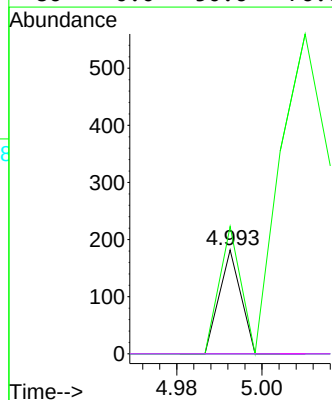
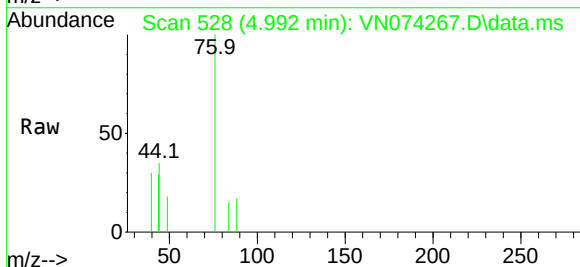
Ion Ratio Lower Upper

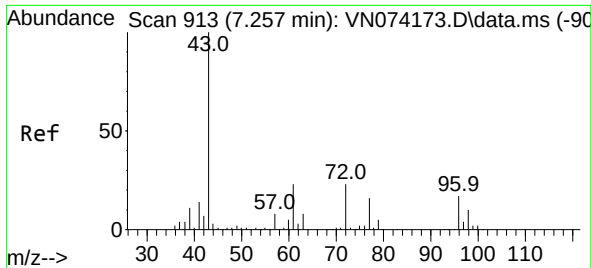
84 100

49 122.5 88.3 132.5

51 0.0 28.2 42.2#

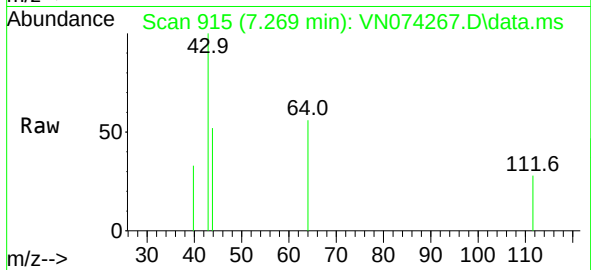
86 0.0 50.6 76.0#



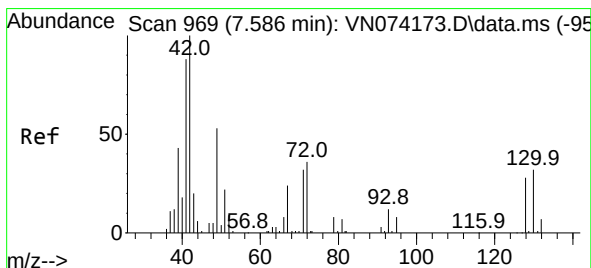
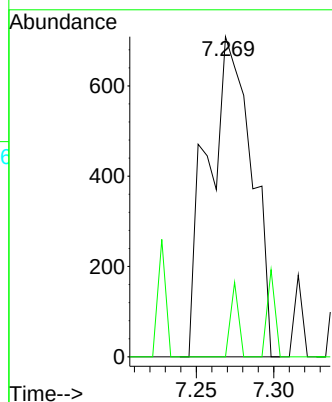
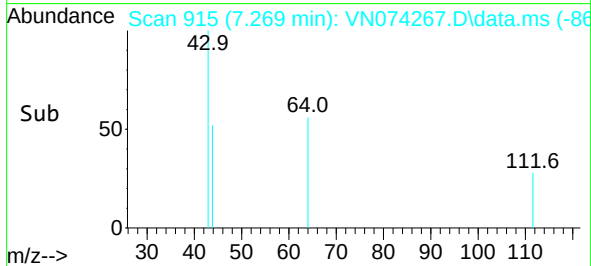


#25
2-Butanone
Concen: 0.384 ug/l
RT: 7.269 min Scan# 915
Delta R.T. 0.012 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

Instrument :
MSVOA_N
ClientSampleId :

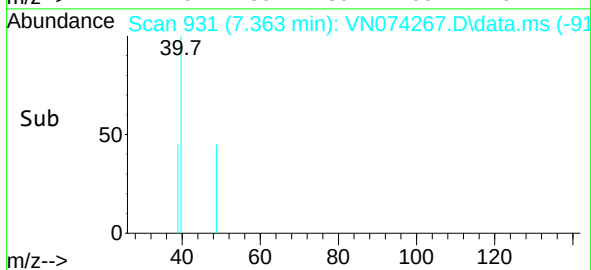
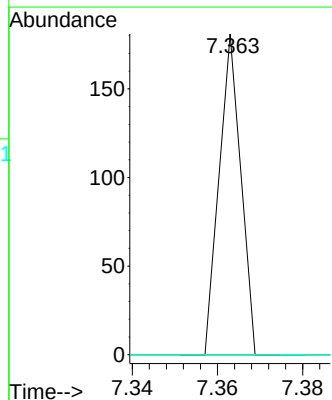
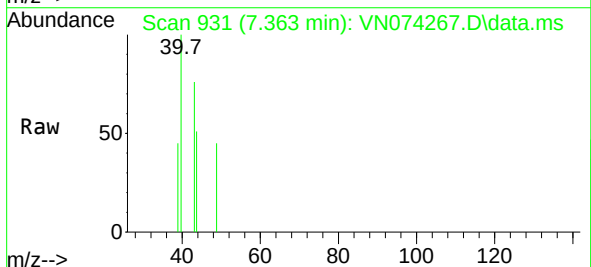


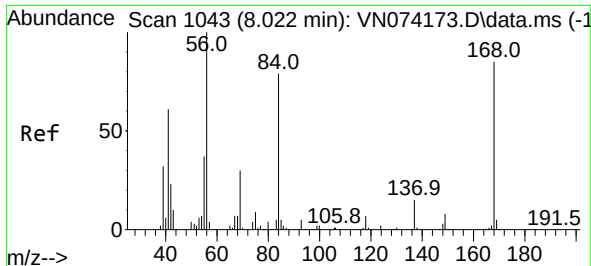
Tgt Ion: 43 Resp: 1400
Ion Ratio Lower Upper
43 100
72 0.0 23.7 35.5#



#28
Bromochloromethane
Concen: Below Cal
RT: 7.363 min Scan# 931
Delta R.T. -0.223 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

Tgt Ion: 49 Resp: 64
Ion Ratio Lower Upper
49 100
129 0.0 0.0 4.6
130 0.0 69.7 104.5#





#31

Cyclohexane

Concen: 1.312 ug/l

RT: 8.010 min Scan# 1102

Delta R.T. -0.012 min

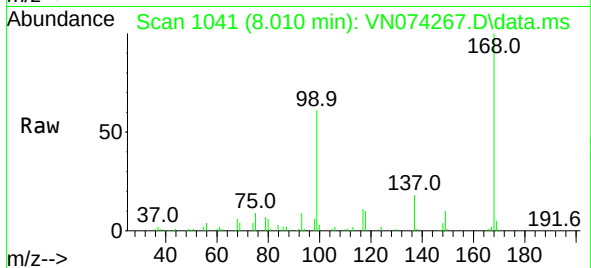
Lab File: VN074267.D

Acq: 02 Sep 2022 02:06

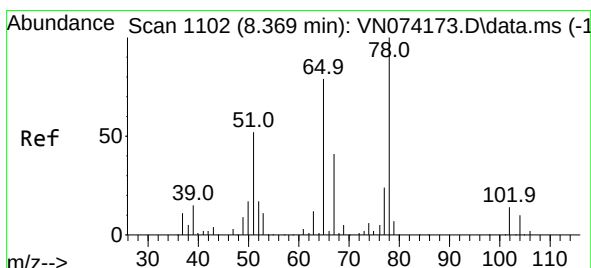
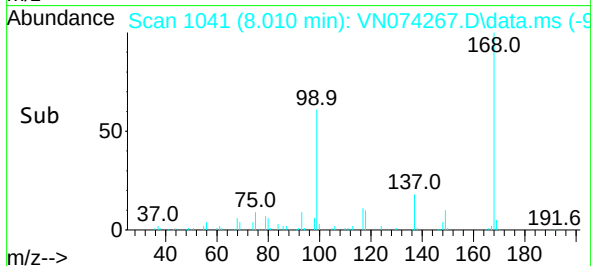
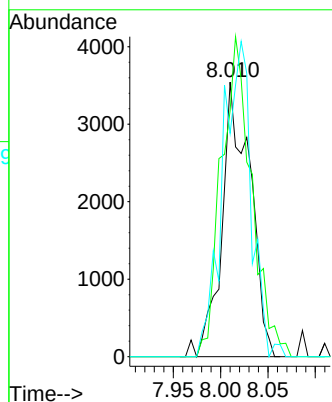
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	56	Resp:	7387
Ion Ratio	100	Lower	Upper
56	100		
69	89.6	27.8	41.8#
84	81.3	76.9	115.3



#33

1,2-Dichloroethane-d4

Concen: 48.882 ug/l

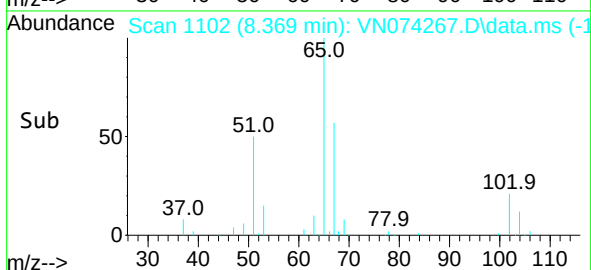
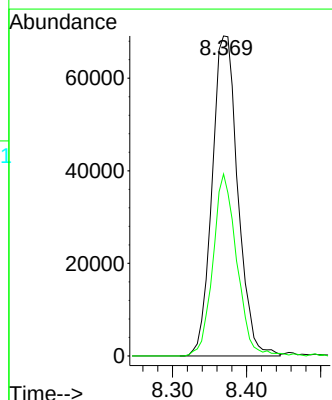
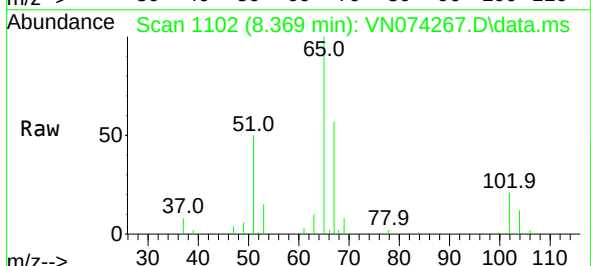
RT: 8.369 min Scan# 1102

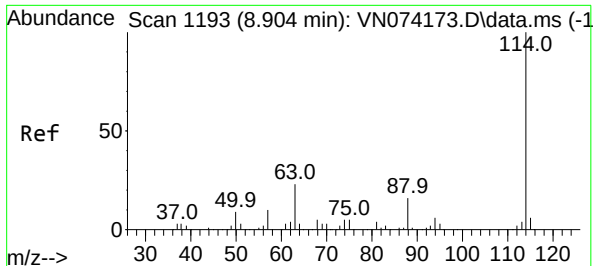
Delta R.T. -0.000 min

Lab File: VN074267.D

Acq: 02 Sep 2022 02:06

Tgt Ion:	65	Resp:	166618
Ion Ratio	100	Lower	Upper
65	100		
67	52.6	0.0	104.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.904 min Scan# 1193

Delta R.T. -0.000 min

Lab File: VN074267.D

Acq: 02 Sep 2022 02:06

Instrument :

MSVOA_N

ClientSampleId :

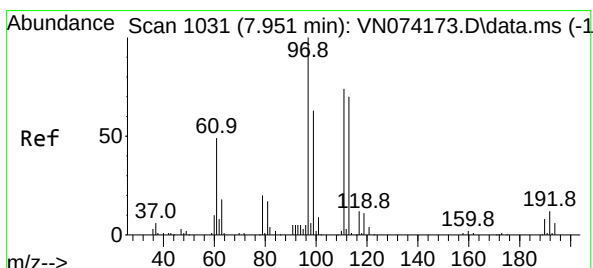
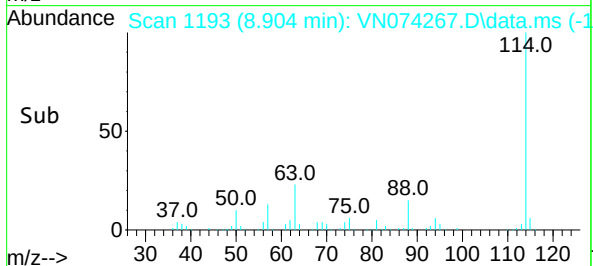
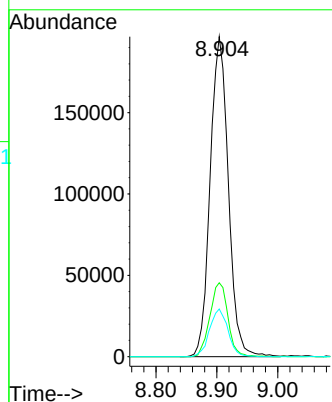
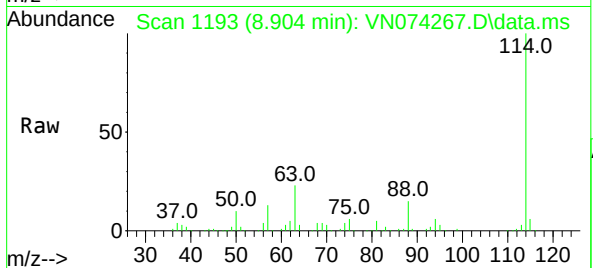
Tgt Ion:114 Resp: 408594

Ion Ratio Lower Upper

114 100

63 23.1 0.0 40.0

88 14.9 0.0 32.6



#35

Dibromofluoromethane

Concen: 52.362 ug/l

RT: 7.951 min Scan# 1031

Delta R.T. -0.000 min

Lab File: VN074267.D

Acq: 02 Sep 2022 02:06

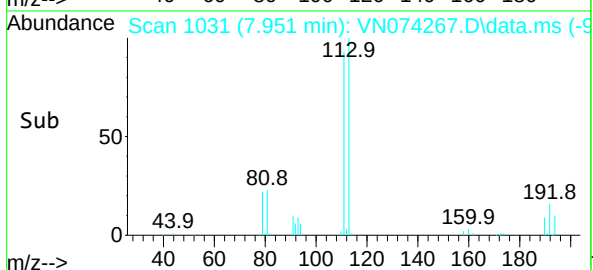
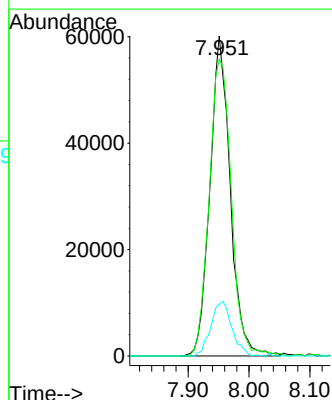
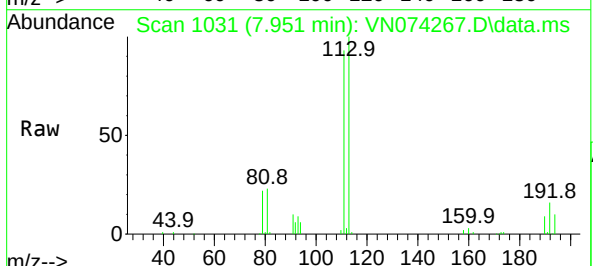
Tgt Ion:113 Resp: 139221

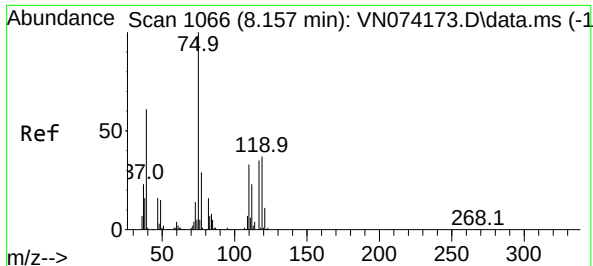
Ion Ratio Lower Upper

113 100

111 101.5 81.4 122.0

192 17.7 17.0 25.6

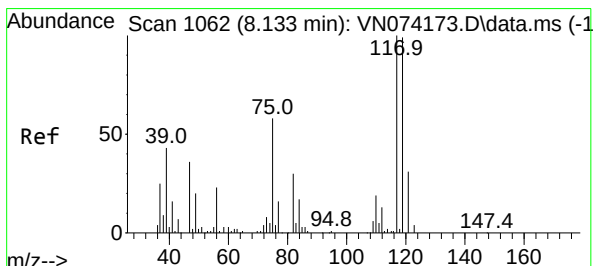
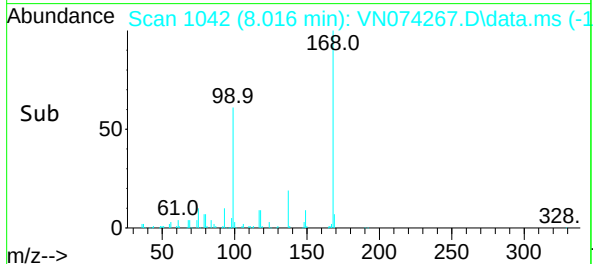
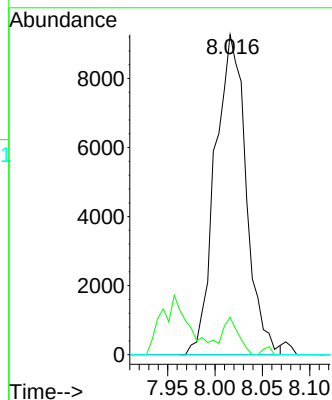
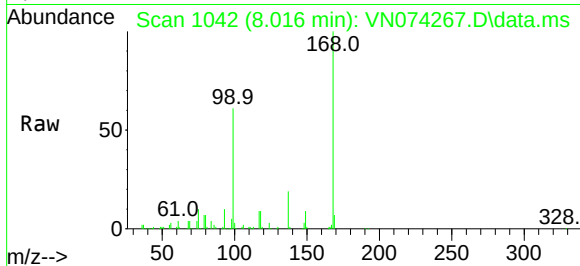




#36
1,1-Dichloropropene
Concen: 4.888 ug/l
RT: 8.016 min Scan# 1042
Delta R.T. -0.141 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

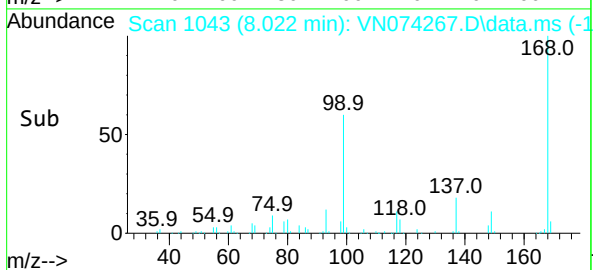
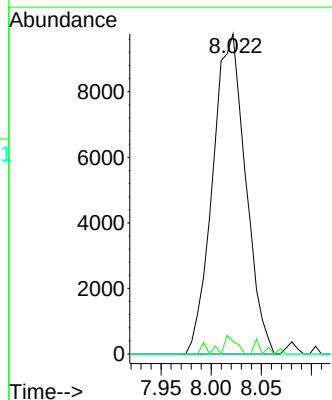
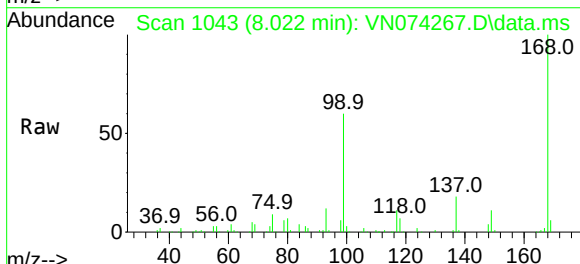
Instrument :
MSVOA_N
ClientSampleId :

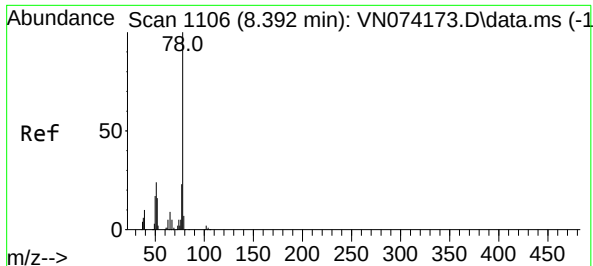
Tgt Ion: 75 Resp: 21087
Ion Ratio Lower Upper
75 100
110 5.5 18.3 54.8#
77 0.0 25.1 37.7#



#38
Carbon Tetrachloride
Concen: 5.686 ug/l
RT: 8.022 min Scan# 1043
Delta R.T. -0.111 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

Tgt Ion: 117 Resp: 22270
Ion Ratio Lower Upper
117 100
119 3.9 75.8 113.8#
121 0.0 24.6 37.0#

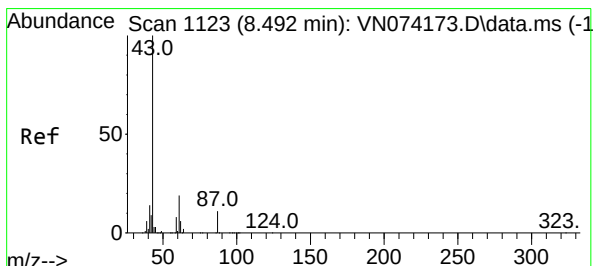
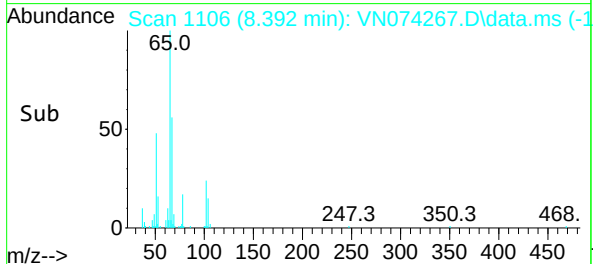
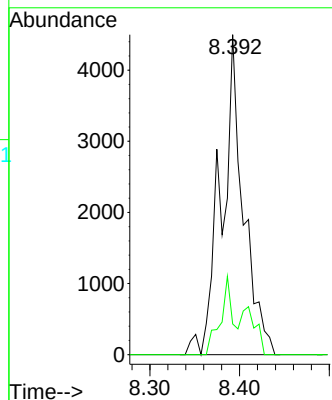
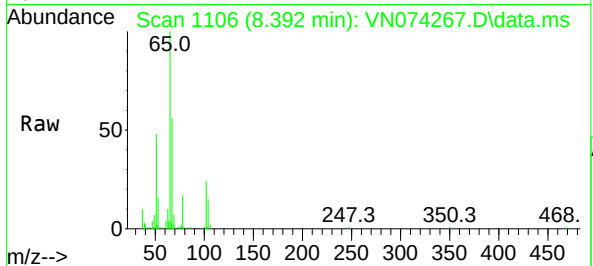




#40
Benzene
Concen: 0.567 ug/l
RT: 8.392 min Scan# 1106
Delta R.T. -0.000 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

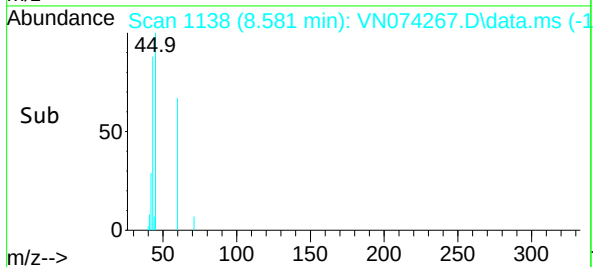
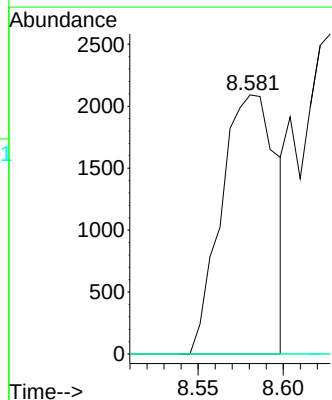
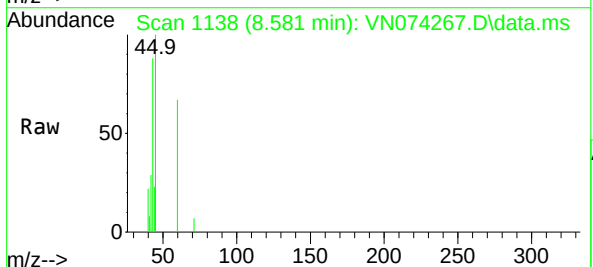
Instrument :
MSVOA_N
ClientSampleId :

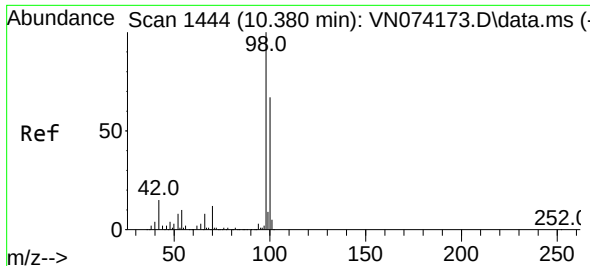
Tgt Ion: 78 Resp: 7682
Ion Ratio Lower Upper
78 100
77 9.6 19.4 29.0#



#43
Isopropyl Acetate
Concen: 0.483 ug/l
RT: 8.581 min Scan# 1138
Delta R.T. 0.088 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

Tgt Ion: 43 Resp: 4684
Ion Ratio Lower Upper
43 100
61 0.0 21.9 32.9#
87 0.0 12.0 18.0#

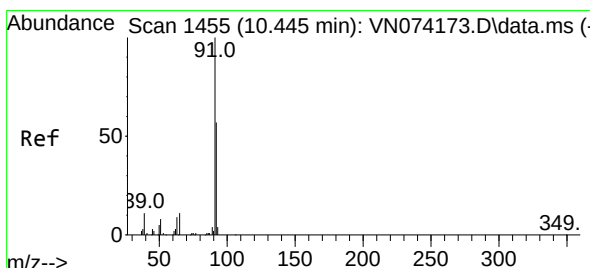
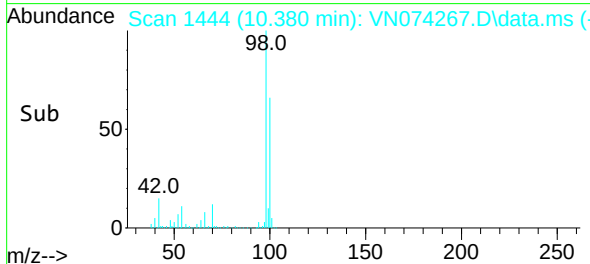
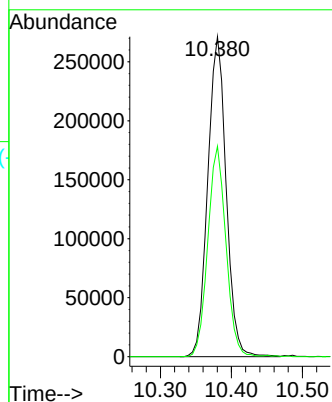
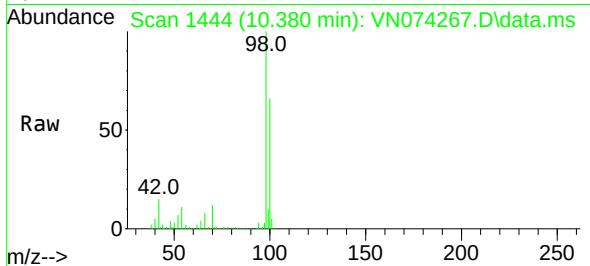




#50
Toluene-d8
Concen: 46.659 ug/l
RT: 10.380 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

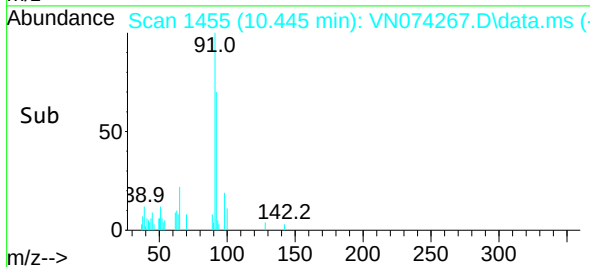
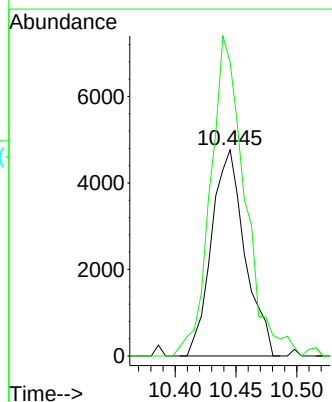
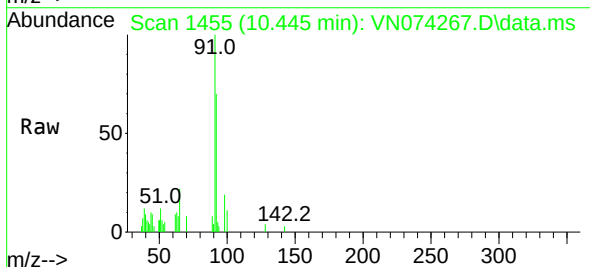
Instrument :
MSVOA_N
ClientSampleId :

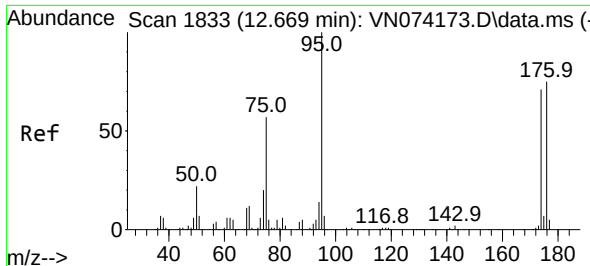
Tgt Ion: 98 Resp: 488551
Ion Ratio Lower Upper
98 100
100 64.7 52.6 78.8



#52
Toluene
Concen: 1.138 ug/l
RT: 10.445 min Scan# 1455
Delta R.T. -0.000 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

Tgt Ion: 92 Resp: 9088
Ion Ratio Lower Upper
92 100
91 159.6 138.6 207.8

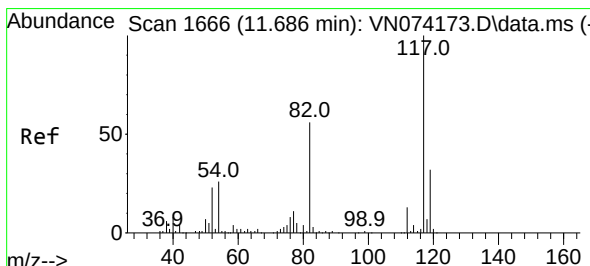
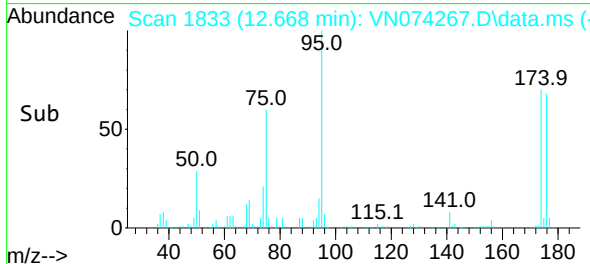
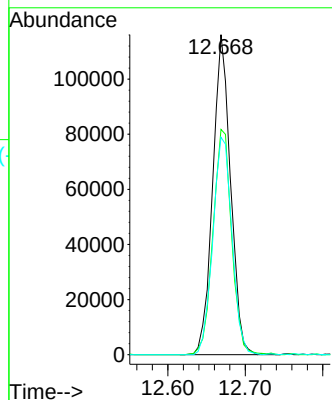
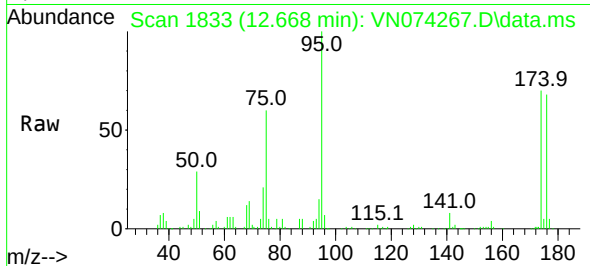




#62
 4-Bromofluorobenzene
 Concen: 58.285 ug/l
 RT: 12.668 min Scan# 1833
 Delta R.T. -0.000 min
 Lab File: VN074267.D
 Acq: 02 Sep 2022 02:06

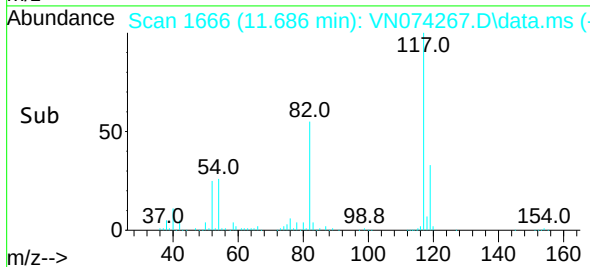
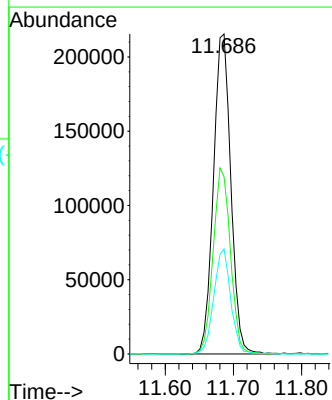
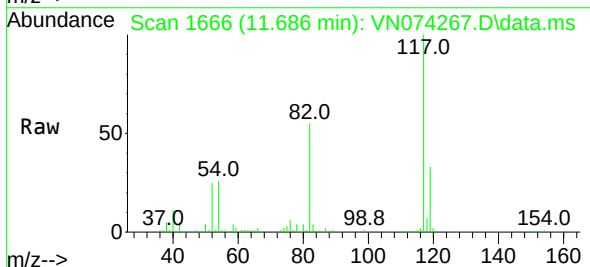
Instrument :
 MSVOA_N
 ClientSampleId :

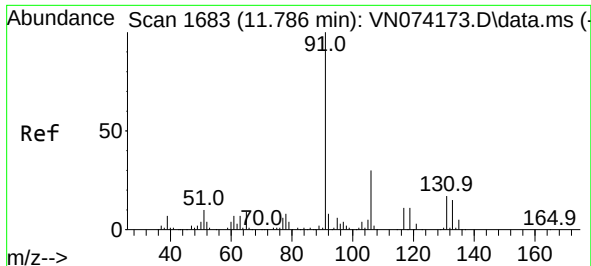
Tgt Ion: 95 Resp: 185590
 Ion Ratio Lower Upper
 95 100
 174 73.8 0.0 167.6
 176 72.8 0.0 163.4



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.686 min Scan# 1666
 Delta R.T. -0.000 min
 Lab File: VN074267.D
 Acq: 02 Sep 2022 02:06

Tgt Ion: 117 Resp: 382922
 Ion Ratio Lower Upper
 117 100
 82 55.4 44.2 66.2
 119 32.8 25.4 38.0

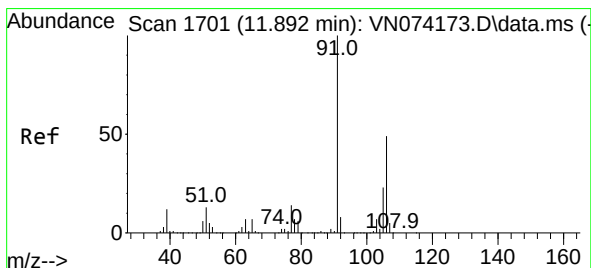
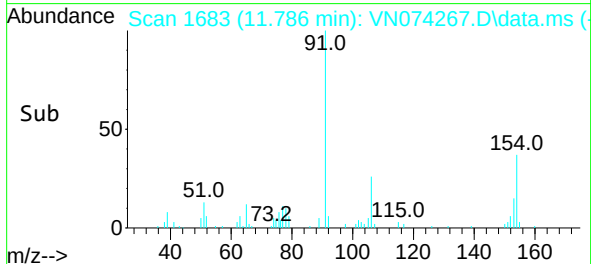
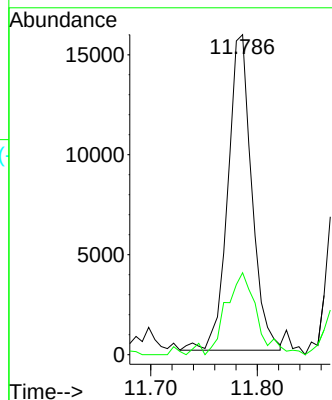
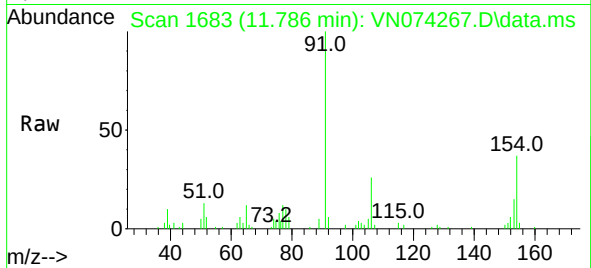




#67
Ethyl Benzene
Concen: 1.591 ug/l
RT: 11.786 min Scan# 11786
Delta R.T. -0.000 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

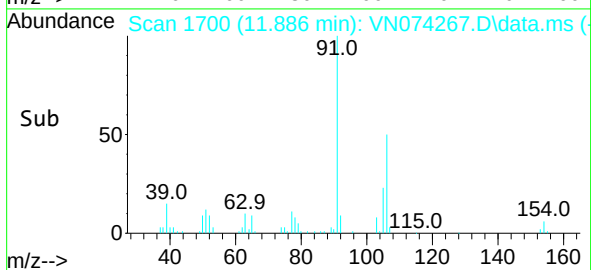
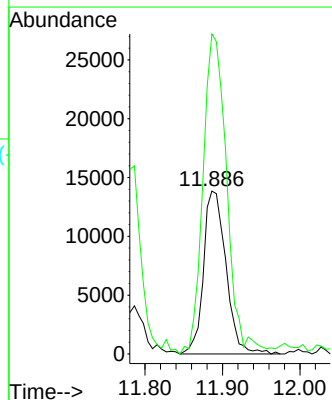
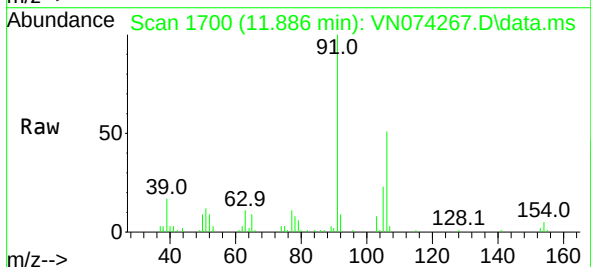
Instrument :
MSVOA_N
ClientSampleId :

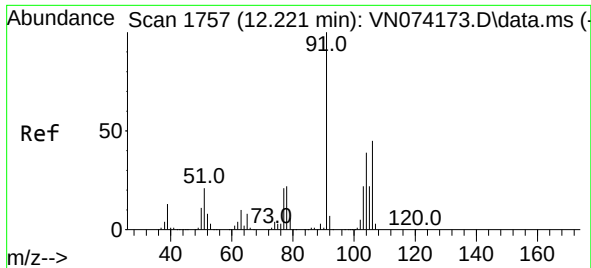
Tgt Ion: 91 Resp: 24603
Ion Ratio Lower Upper
91 100
106 25.0 24.9 37.3



#68
m/p-Xylenes
Concen: 4.870 ug/l
RT: 11.886 min Scan# 1700
Delta R.T. -0.006 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

Tgt Ion: 106 Resp: 27976
Ion Ratio Lower Upper
106 100
91 207.0 158.9 238.3

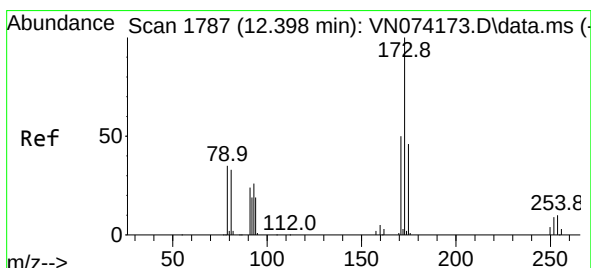
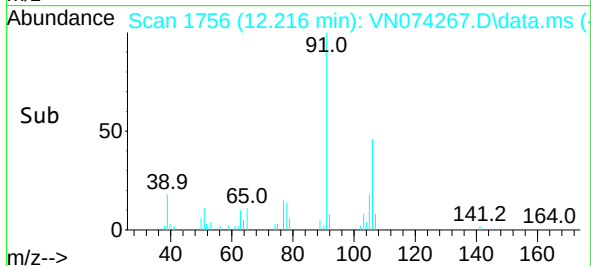
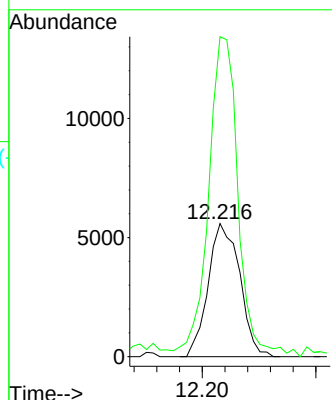
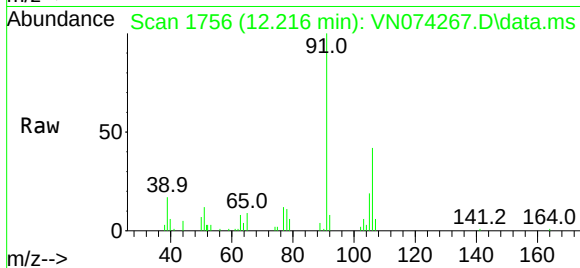




#69
o-Xylene
Concen: 1.882 ug/l
RT: 12.216 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

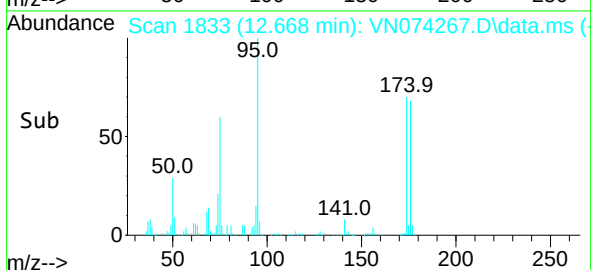
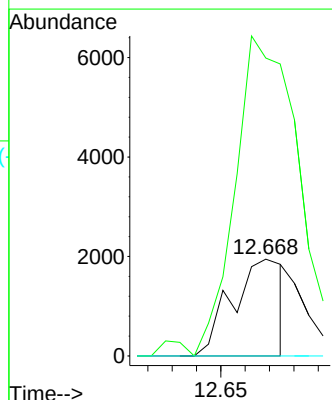
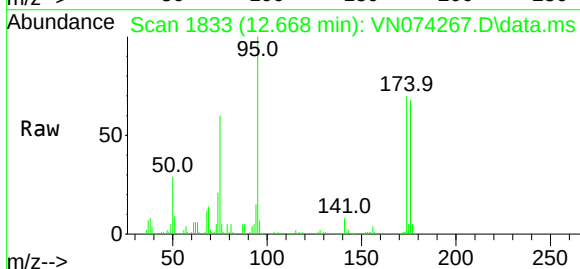
Instrument :
MSVOA_N
ClientSampleId :

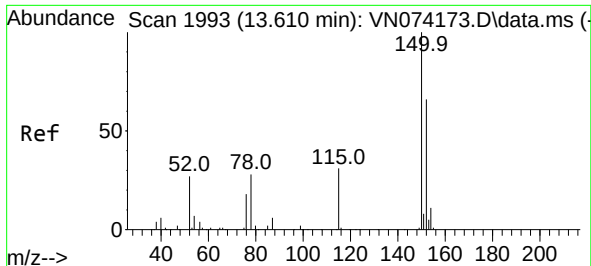
Tgt Ion:106 Resp: 10772
Ion Ratio Lower Upper
106 100
91 225.1 106.0 318.0



#71
Bromoform
Concen: 1.091 ug/l
RT: 12.668 min Scan# 1833
Delta R.T. 0.271 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

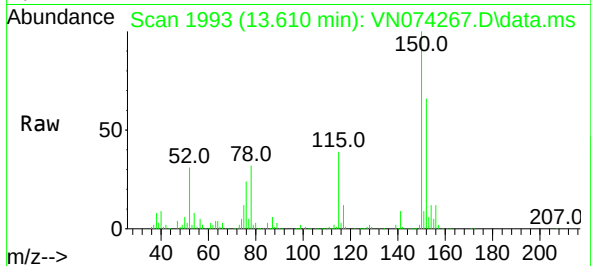
Tgt Ion:173 Resp: 2830
Ion Ratio Lower Upper
173 100
175 309.1 24.6 73.6#
254 0.0 0.1 0.1#



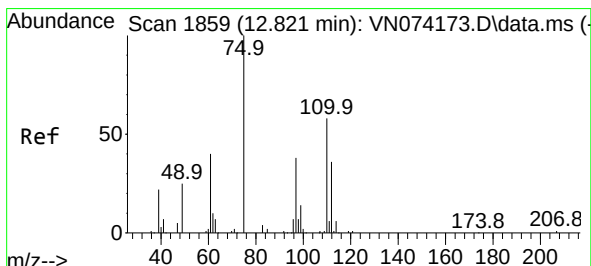
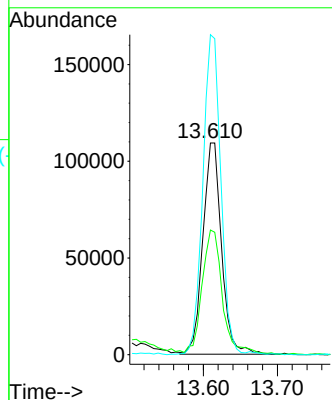
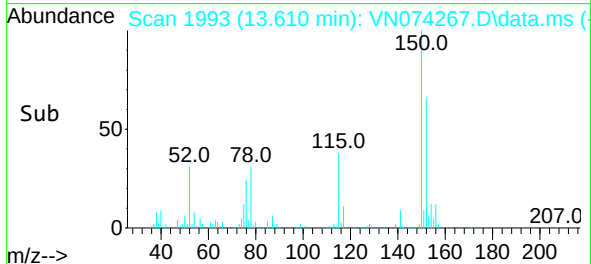


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.610 min Scan# 1993
 Delta R.T. -0.000 min
 Lab File: VN074267.D
 Acq: 02 Sep 2022 02:06

Instrument :
 MSVOA_N
 ClientSampleId :

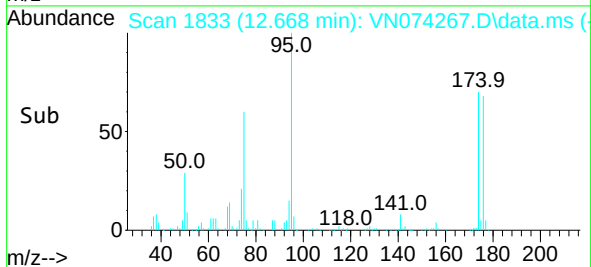
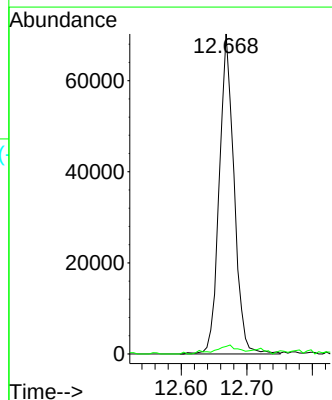
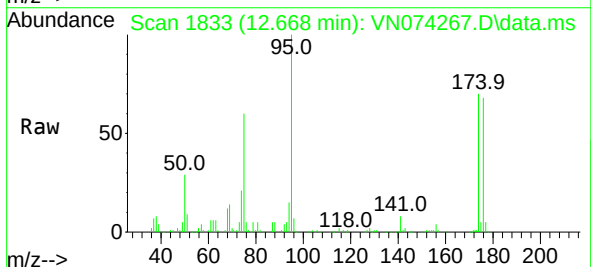


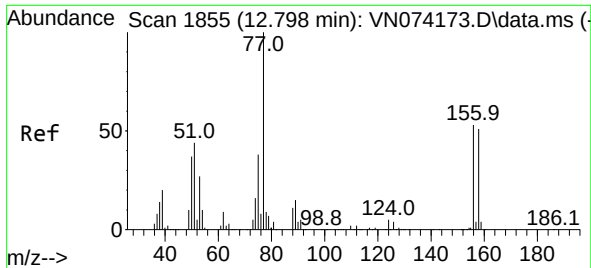
Tgt Ion:152 Resp: 191685
 Ion Ratio Lower Upper
 152 100
 115 63.5 28.9 86.7
 150 145.7 0.0 356.2



#76
 1,2,3-Trichloropropane
 Concen: 22.924 ug/l
 RT: 12.668 min Scan# 1833
 Delta R.T. -0.153 min
 Lab File: VN074267.D
 Acq: 02 Sep 2022 02:06

Tgt Ion: 75 Resp: 110003
 Ion Ratio Lower Upper
 75 100
 77 3.1 98.5 295.5#

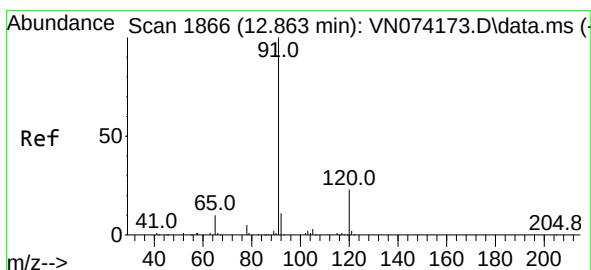
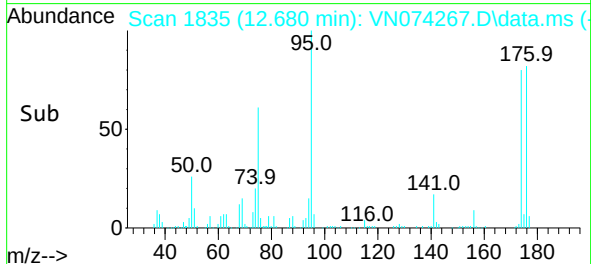
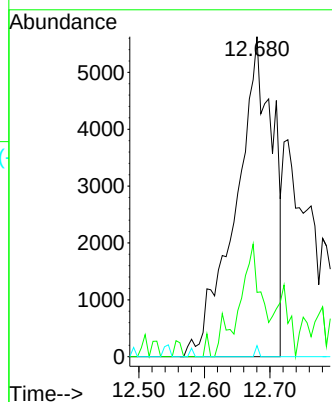
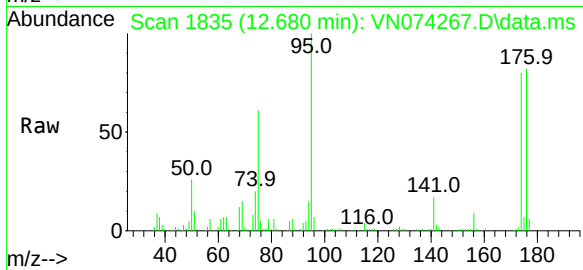




#77
Bromobenzene
Concen: 5.800 ug/l
RT: 12.680 min Scan# 1835
Delta R.T. -0.118 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

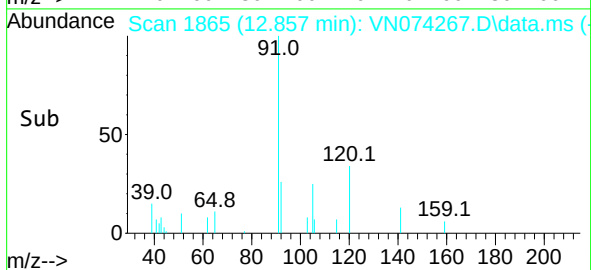
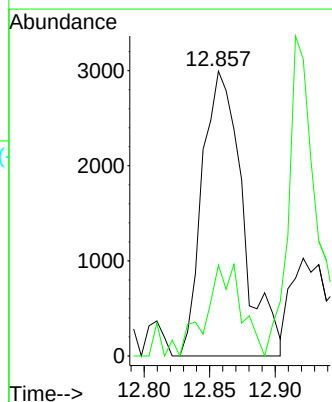
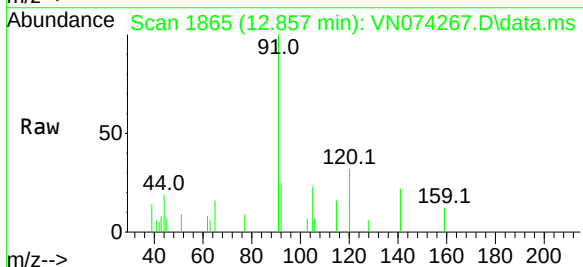
Instrument :
MSVOA_N
ClientSampleId :

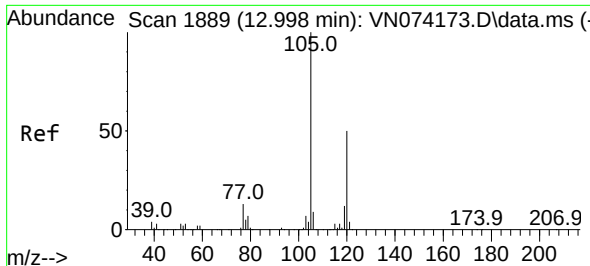
Tgt Ion:156 Resp: 22272
Ion Ratio Lower Upper
156 100
77 15.3 100.5 301.5#
158 0.3 48.9 146.6#



#78
n-propylbenzene
Concen: 0.341 ug/l
RT: 12.857 min Scan# 1865
Delta R.T. -0.006 min
Lab File: VN074267.D
Acq: 02 Sep 2022 02:06

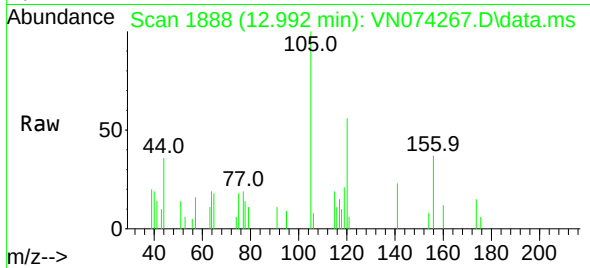
Tgt Ion: 91 Resp: 6390
Ion Ratio Lower Upper
91 100
120 28.1 11.9 35.5



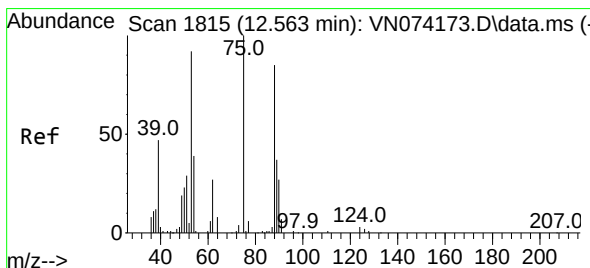
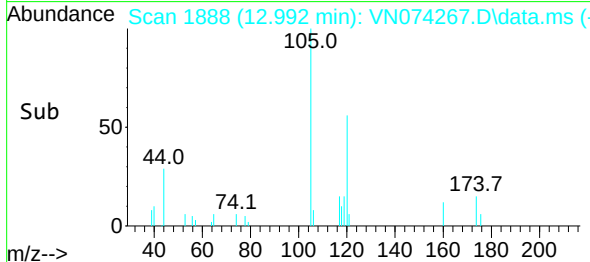
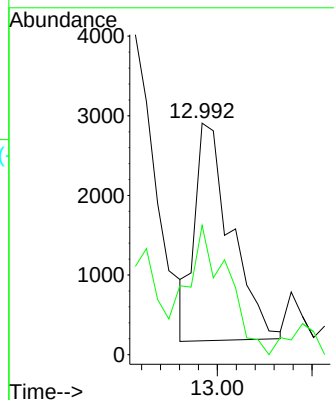


#80
 1,3,5-Trimethylbenzene
 Concen: 0.271 ug/l
 RT: 12.992 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: VN074267.D
 Acq: 02 Sep 2022 02:06

Instrument :
 MSVOA_N
 ClientSampleId :

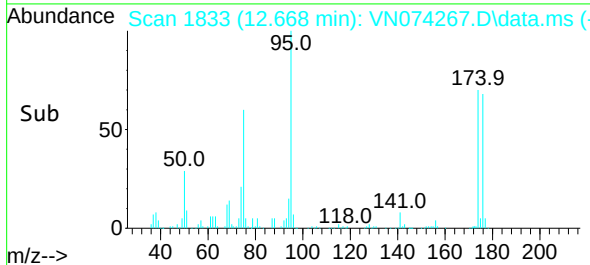
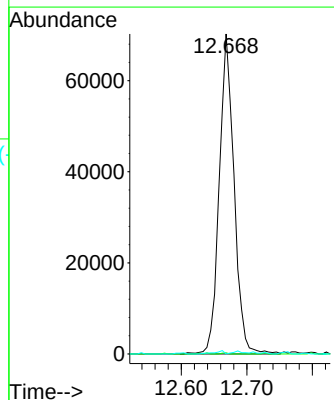
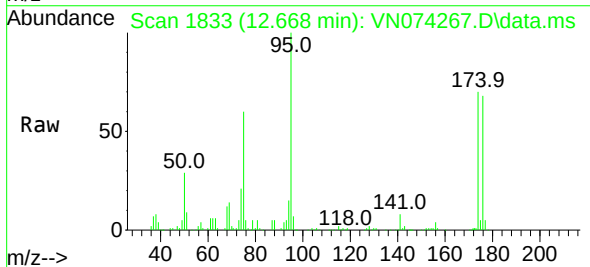


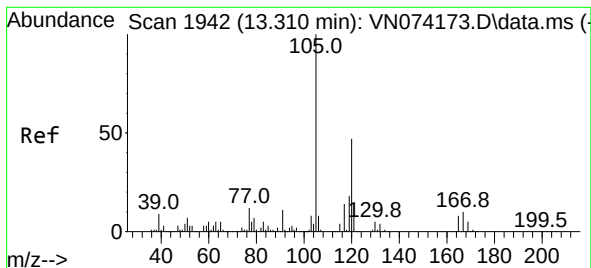
Tgt Ion:105 Resp: 3621
 Ion Ratio Lower Upper
 105 100
 120 65.6 24.9 74.7



#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.567 ug/l
 RT: 12.668 min Scan# 1833
 Delta R.T. 0.106 min
 Lab File: VN074267.D
 Acq: 02 Sep 2022 02:06

Tgt Ion: 75 Resp: 110003
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.0 117.0#
 89 0.6 37.2 55.8#





#84

1,2,4-Trimethylbenzene

Concen: 1.435 ug/l

RT: 13.310 min Scan# 1942

Delta R.T. -0.000 min

Lab File: VN074267.D

Acq: 02 Sep 2022 02:06

Instrument :

MSVOA_N

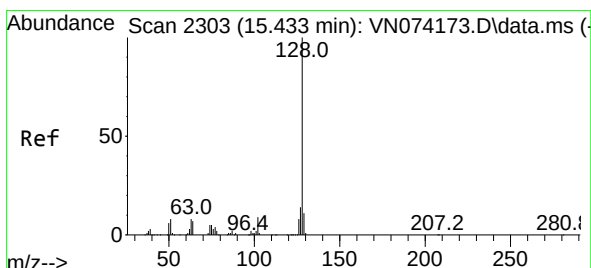
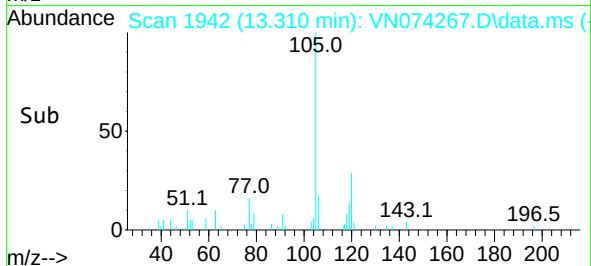
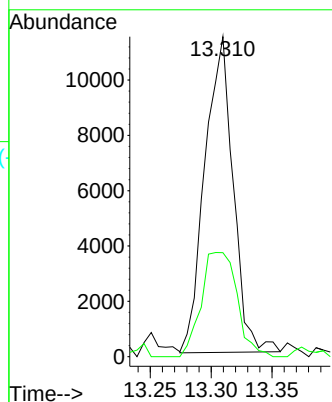
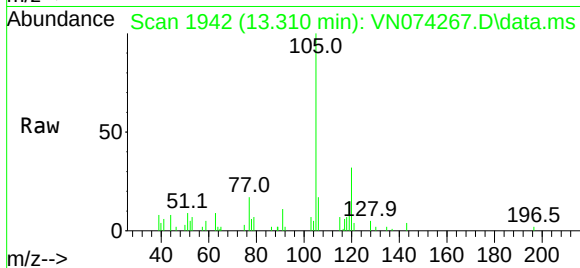
ClientSampleId :

Tgt Ion:105 Resp: 18485

Ion Ratio Lower Upper

105 100

120 41.7 23.3 69.8



#95

Naphthalene

Concen: 6.322 ug/l

RT: 15.427 min Scan# 2302

Delta R.T. -0.006 min

Lab File: VN074267.D

Acq: 02 Sep 2022 02:06

Tgt Ion:128 Resp: 76980

Ion Ratio Lower Upper

128 100

127 12.6 10.3 15.5

129 12.0 8.6 13.0

