

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082423\
 Data File : VN079041.D
 Acq On : 24 Aug 2023 19:07
 Operator : JC\MD
 Sample : 04075-02DL 200X
 Misc : 7.22g/5.0mL/100uL/5.0mL/MSVOA_N/MEOH
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 25 02:58:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N081523W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 16 02:42:02 2023
 Response via : Initial Calibration

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

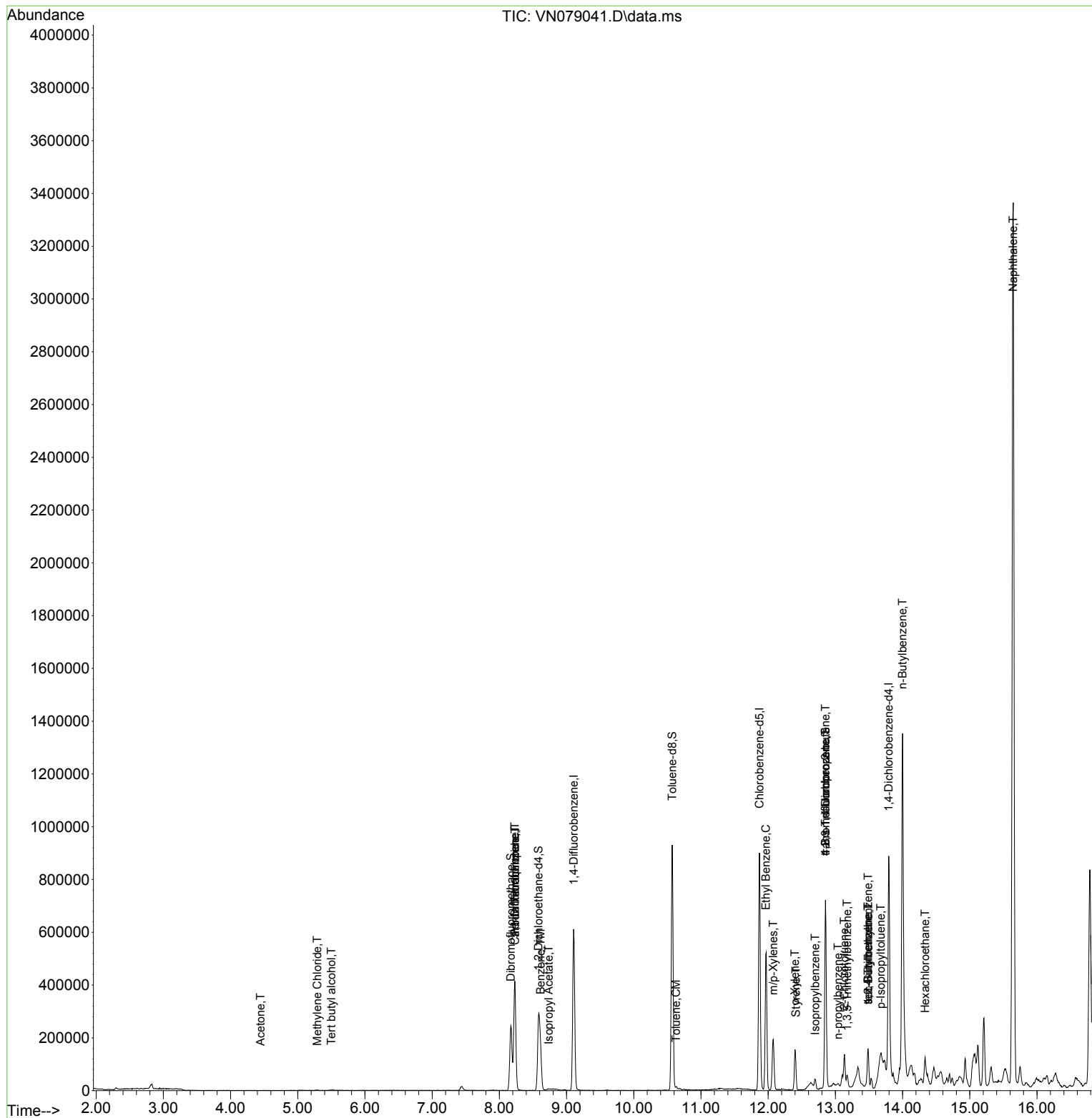
Internal Standards						
1) Pentafluorobenzene	8.229	168	300636	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	529135	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.870	117	498107	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	219645	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	207343	44.322	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.640%		
35) Dibromofluoromethane	8.171	113	174532	49.000	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.000%		
50) Toluene-d8	10.570	98	634581	47.982	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	95.960%		
62) 4-Bromofluorobenzene	12.853	95	228106	52.767	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	105.540%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.500	59	1822	2.321	ug/l #	72
16) Acetone	4.447	43	685	0.355	ug/l #	40
20) Methylene Chloride	5.288	84	902	0.219	ug/l #	24
31) Cyclohexane	8.229	56	7506	Below Cal	#	17
36) 1,1-Dichloropropene	8.229	75	25059	4.677	ug/l #	47
38) Carbon Tetrachloride	8.235	117	31413	5.851	ug/l #	13
40) Benzene	8.612	78	143285	9.048	ug/l	99
43) Isopropyl Acetate	8.735	43	4372	0.413	ug/l #	49
52) Toluene	10.629	92	3254	0.335	ug/l	99
67) Ethyl Benzene	11.965	91	385393	19.988	ug/l	98
68) m/p-Xylenes	12.076	106	63335	8.786	ug/l	98
69) o-Xylene	12.400	106	40543	5.781	ug/l	94
70) Styrene	12.412	104	2672	0.229	ug/l #	1
73) Isopropylbenzene	12.700	105	22980	1.255	ug/l	100
76) 1,2,3-Trichloropropane	12.853	75	126468	23.896	ug/l #	1
78) n-propylbenzene	13.041	91	9256	0.436	ug/l	99
79) 2-Chlorotoluene	13.135	91	12869	0.977	ug/l #	43
80) 1,3,5-Trimethylbenzene	13.176	105	19340	1.333	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.853	75	126468	61.045	ug/l #	15
83) tert-Butylbenzene	13.488	119	10706	0.878	ug/l #	47
84) 1,2,4-Trimethylbenzene	13.488	105	80590	5.608	ug/l	95
85) sec-Butylbenzene	13.488	105	80590	4.802	ug/l #	57
86) p-Isopropyltoluene	13.676	119	12442	0.928	ug/l	95
89) n-Butylbenzene	14.000	91	118477	10.737	ug/l #	43
90) Hexachloroethane	14.335	117	6396	2.380	ug/l #	21
92) 1,2-Dibromo-3-Chloropr...	14.476	75	1274	Below Cal		78
95) Naphthalene	15.647	128	3080913	291.285	ug/l	99

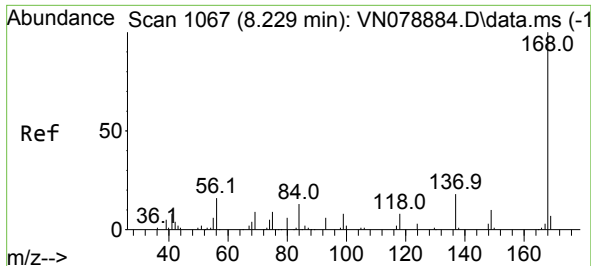
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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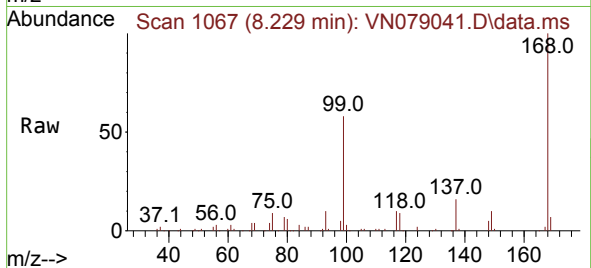
Quant Time: Aug 25 02:58:11 2023
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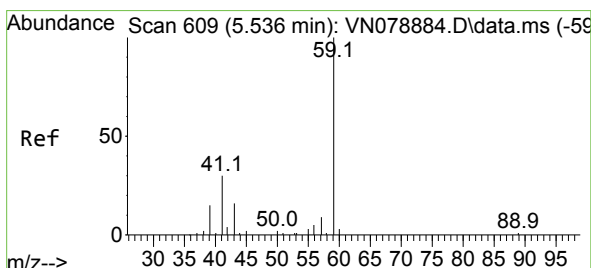
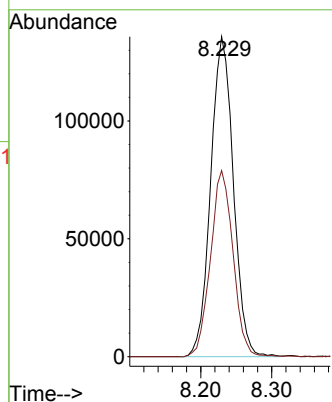
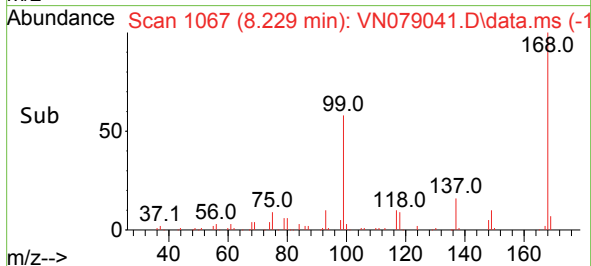


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

Instrument :
MSVOA_N
ClientSampleId :

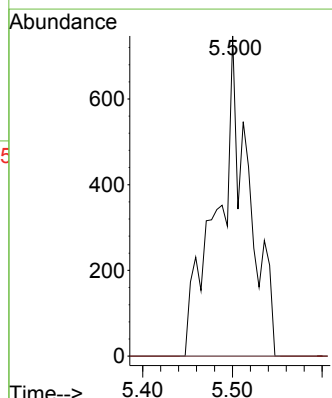
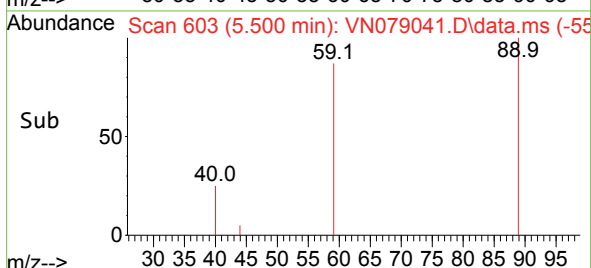
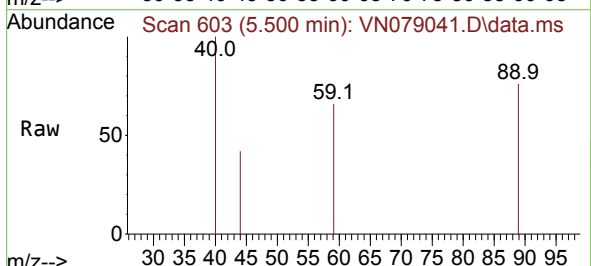


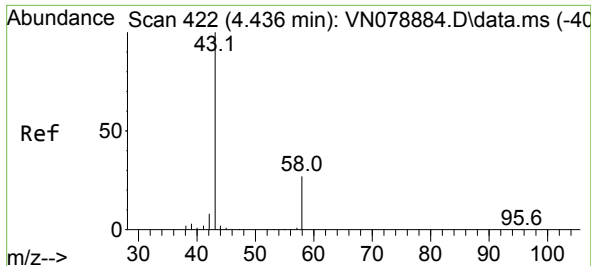
Tgt Ion:168 Resp: 300636
Ion Ratio Lower Upper
168 100
99 58.2 53.0 79.6



#11
Tert butyl alcohol
Concen: 2.321 ug/l
RT: 5.500 min Scan# 603
Delta R.T. -0.042 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

Tgt Ion: 59 Resp: 1822
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#





#16

Acetone

Concen: 0.355 ug/l

RT: 4.447 min Scan# 41

Delta R.T. 0.005 min

Lab File: VN079041.D

Acq: 24 Aug 2023 19:07

Instrument :

MSVOA_N

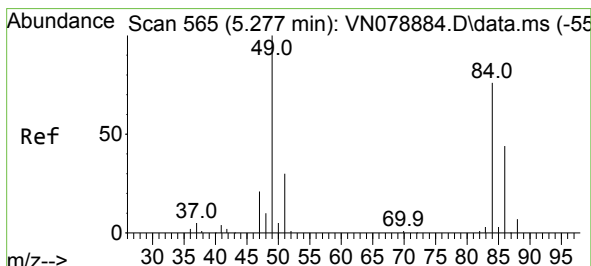
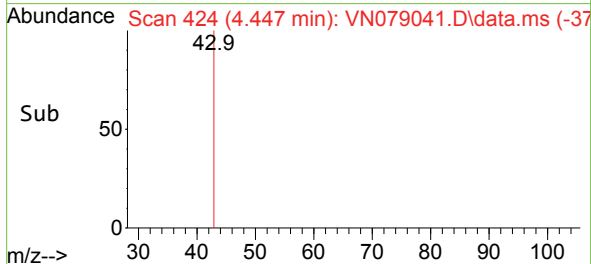
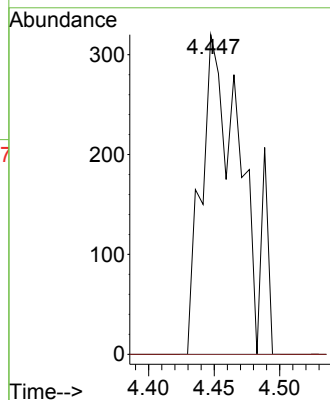
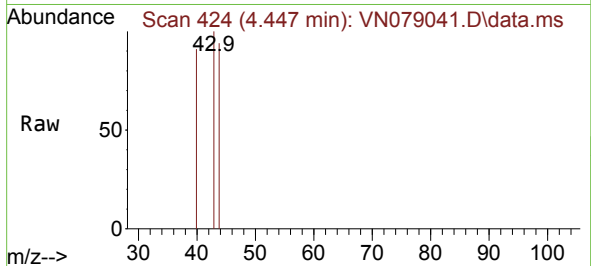
ClientSampleId :

Tgt Ion: 43 Resp: 685

Ion Ratio Lower Upper

43 100

58 0.0 28.0 42.0#



#20

Methylene Chloride

Concen: 0.219 ug/l

RT: 5.288 min Scan# 567

Delta R.T. 0.005 min

Lab File: VN079041.D

Acq: 24 Aug 2023 19:07

Tgt Ion: 84 Resp: 902

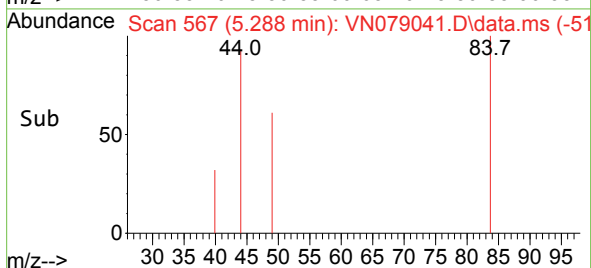
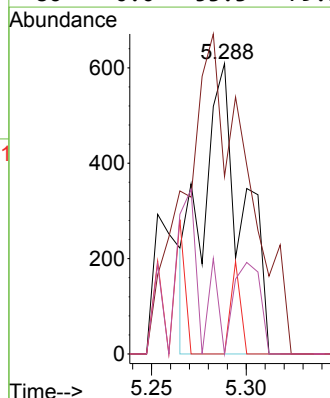
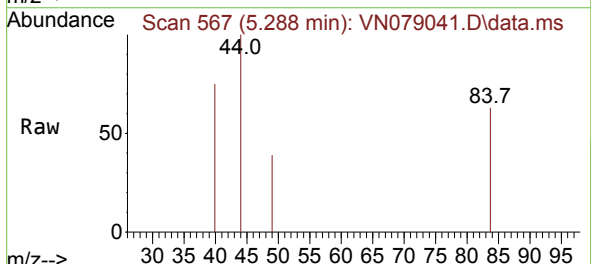
Ion Ratio Lower Upper

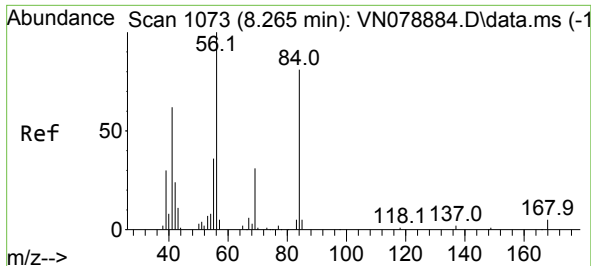
84 100

49 23.5 79.7 119.5#

51 0.0 25.2 37.8#

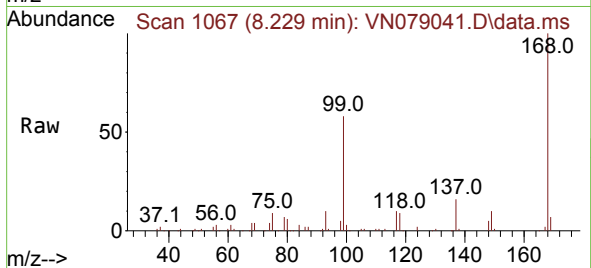
86 0.0 53.3 79.9#



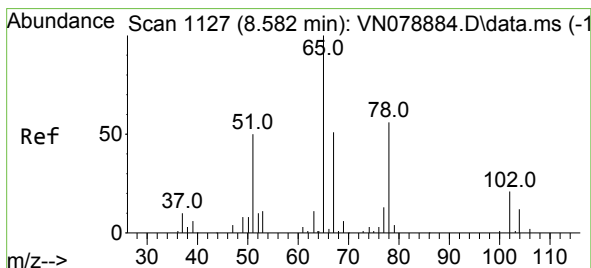
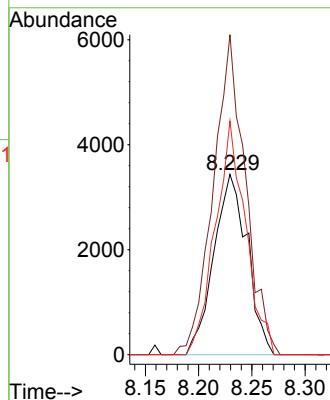
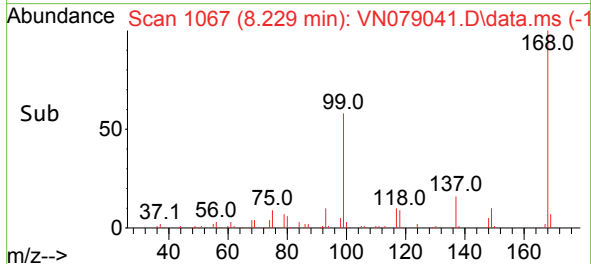


#31
Cyclohexane
Concen: Below Cal
RT: 8.229 min Scan# 1067
Delta R.T. -0.036 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

Instrument :
MSVOA_N
ClientSampleId :

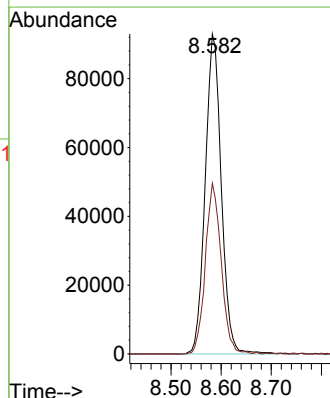
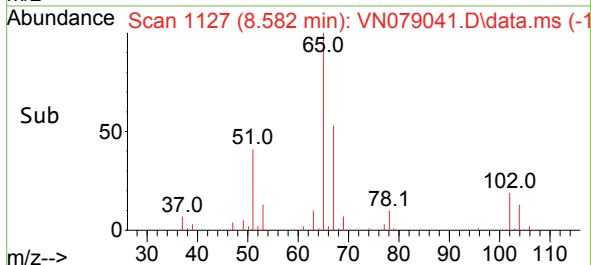
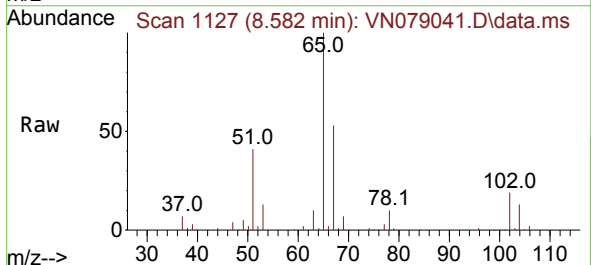


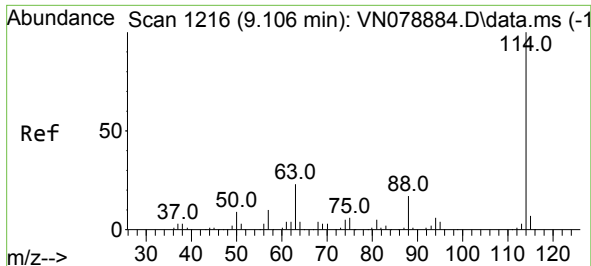
Tgt Ion: 56 Resp: 7506
Ion Ratio Lower Upper
56 100
69 177.5 26.8 40.2#
84 129.7 81.8 122.6#



#33
1,2-Dichloroethane-d4
Concen: 44.322 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.001 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

Tgt Ion: 65 Resp: 207343
Ion Ratio Lower Upper
65 100
67 52.6 0.0 106.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN079041.D

Acq: 24 Aug 2023 19:07

Instrument :

MSVOA_N

ClientSampleId :

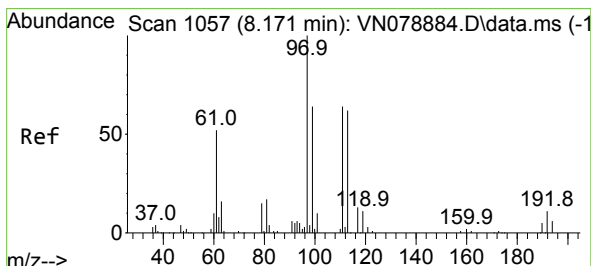
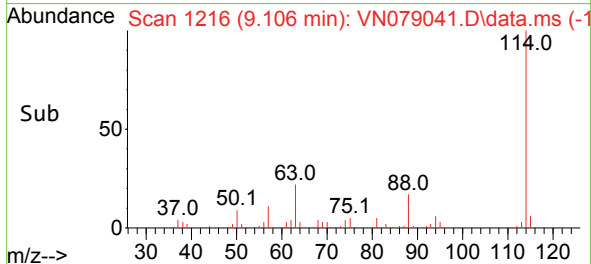
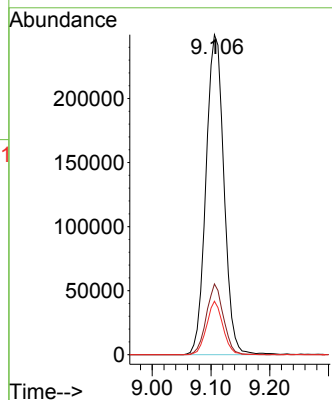
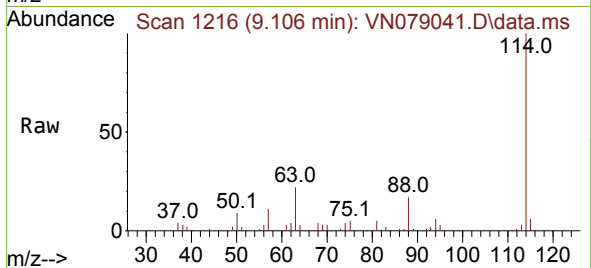
Tgt Ion:114 Resp: 529135

Ion Ratio Lower Upper

114 100

63 22.1 0.0 36.4

88 16.7 0.0 30.6



#35

Dibromofluoromethane

Concen: 49.000 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. -0.000 min

Lab File: VN079041.D

Acq: 24 Aug 2023 19:07

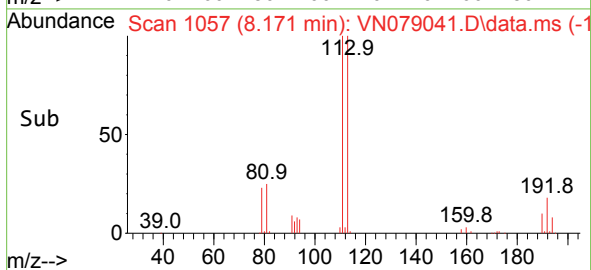
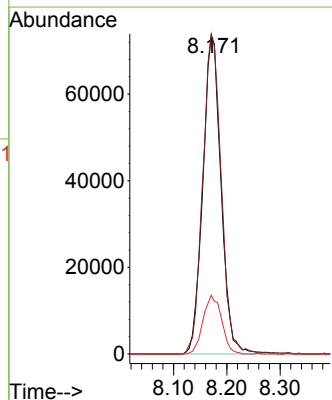
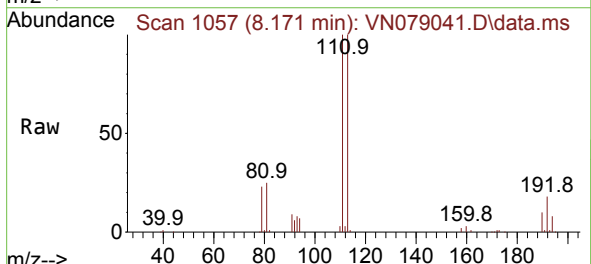
Tgt Ion:113 Resp: 174532

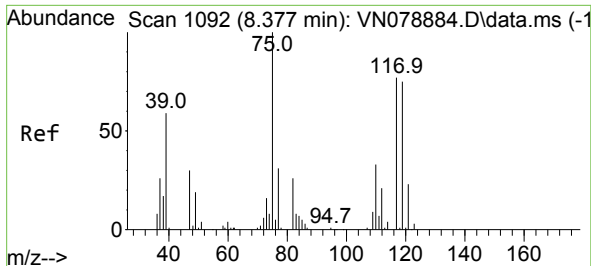
Ion Ratio Lower Upper

113 100

111 101.7 82.6 123.8

192 18.8 12.7 19.1





#36

1,1-Dichloropropene

Concen: 4.677 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.148 min

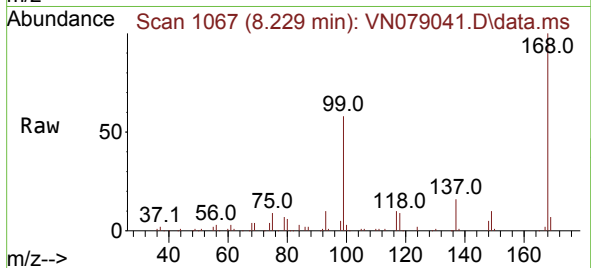
Lab File: VN079041.D

Acq: 24 Aug 2023 19:07

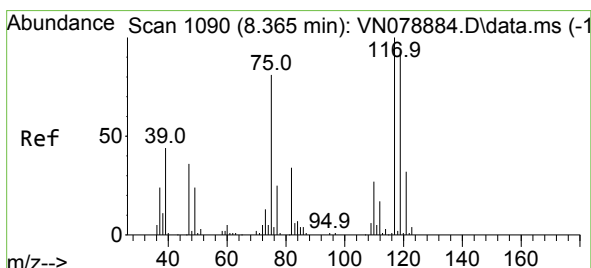
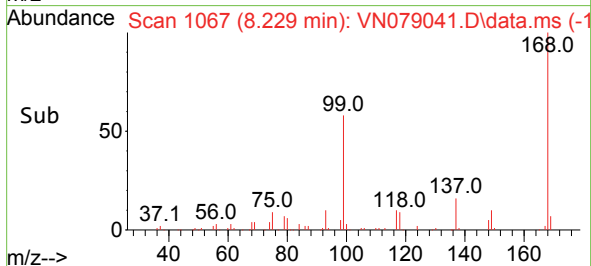
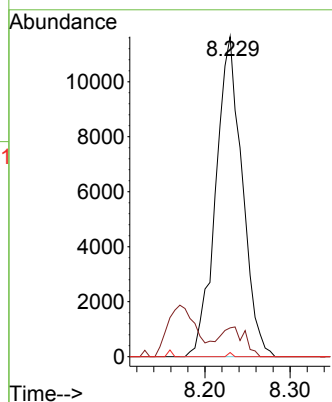
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	75	Resp:	25059
Ion Ratio	100	Lower	Upper
110	8.2	19.1	57.3#
77	0.0	25.0	37.4#



#38

Carbon Tetrachloride

Concen: 5.851 ug/l

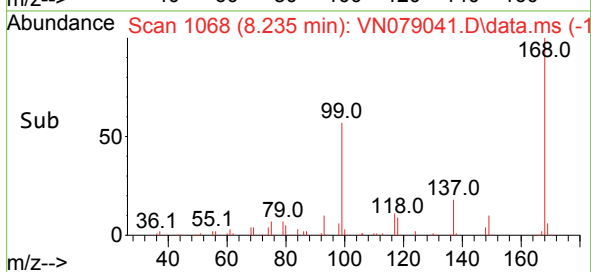
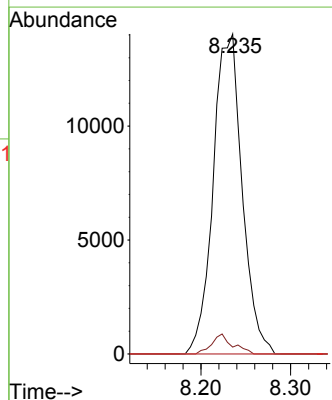
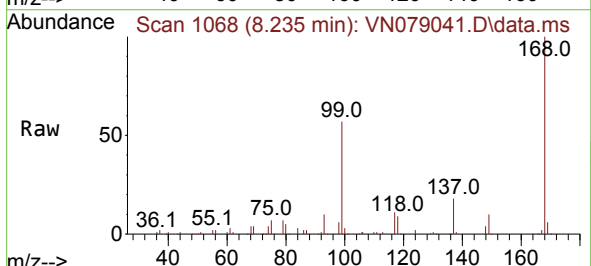
RT: 8.235 min Scan# 1068

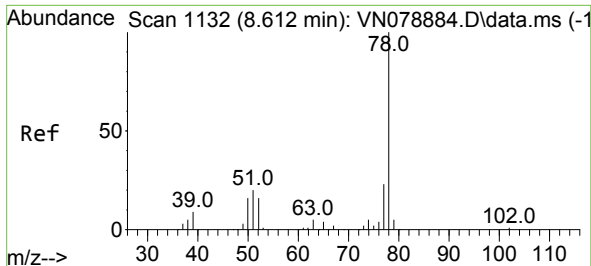
Delta R.T. -0.136 min

Lab File: VN079041.D

Acq: 24 Aug 2023 19:07

Tgt Ion:	117	Resp:	31413
Ion Ratio	100	Lower	Upper
119	2.1	77.3	115.9#
121	0.0	23.3	34.9#

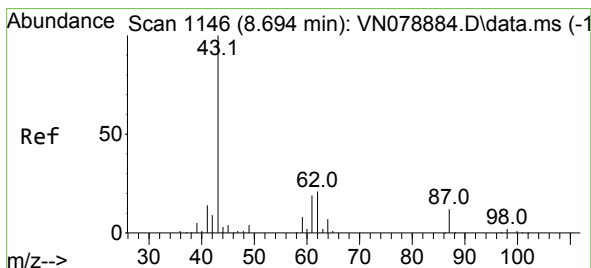
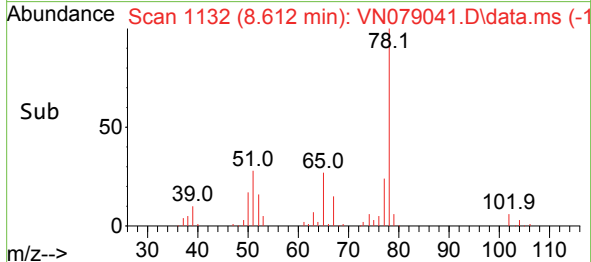
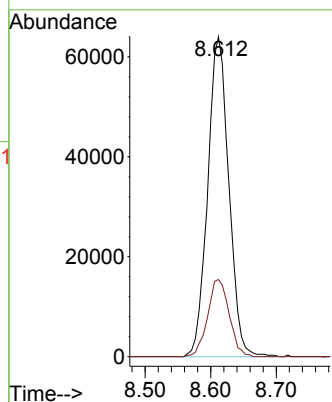
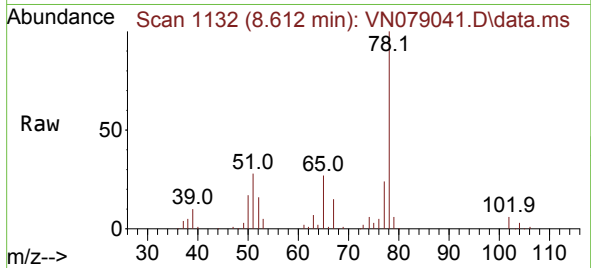




#40
Benzene
Concen: 9.048 ug/l
RT: 8.612 min Scan# 1132
Delta R.T. -0.000 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

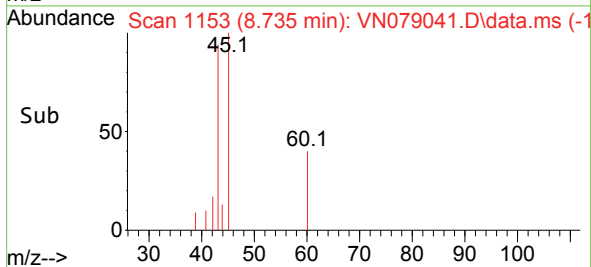
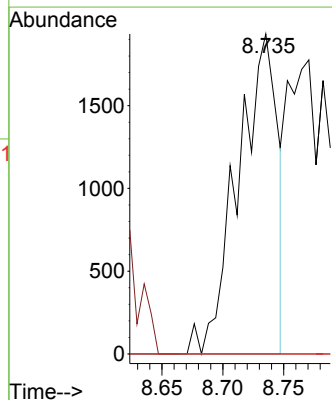
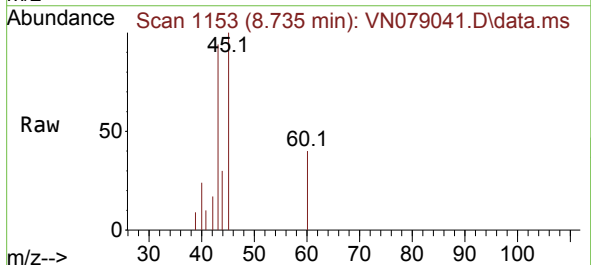
Instrument :
MSVOA_N
ClientSampleId :

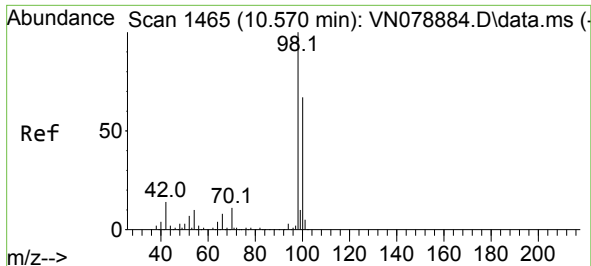
Tgt Ion: 78 Resp: 143285
Ion Ratio Lower Upper
78 100
77 24.1 19.0 28.6



#43
Isopropyl Acetate
Concen: 0.413 ug/l
RT: 8.735 min Scan# 1153
Delta R.T. 0.041 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

Tgt Ion: 43 Resp: 4372
Ion Ratio Lower Upper
43 100
61 0.0 24.7 37.1#
87 0.0 14.6 21.8#

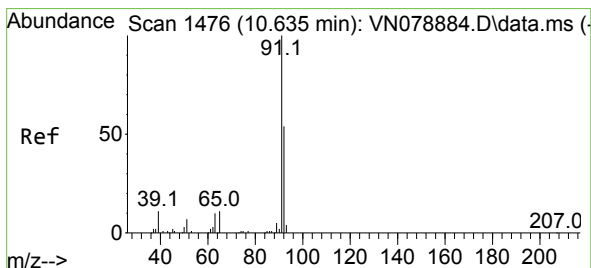
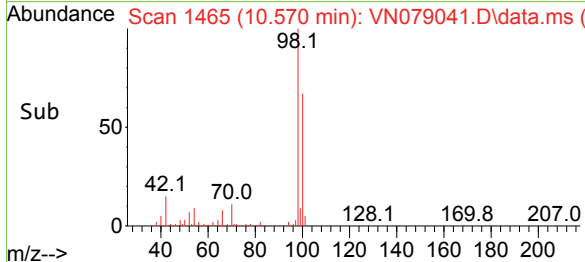
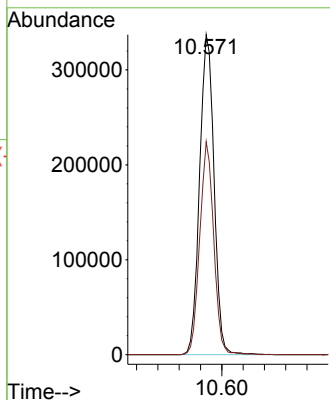
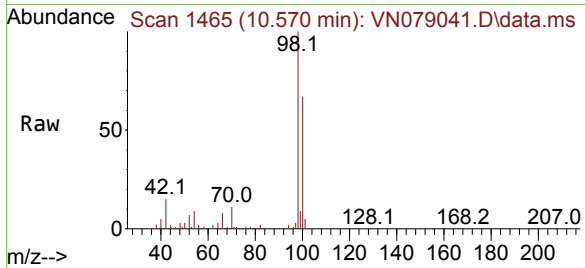




#50
Toluene-d8
Concen: 47.982 ug/l
RT: 10.570 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

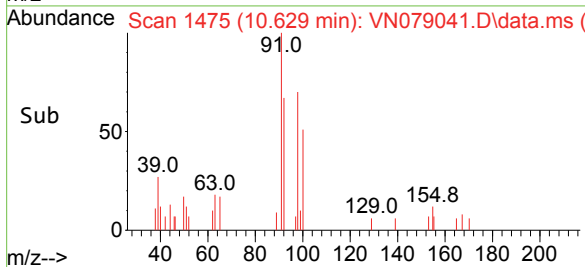
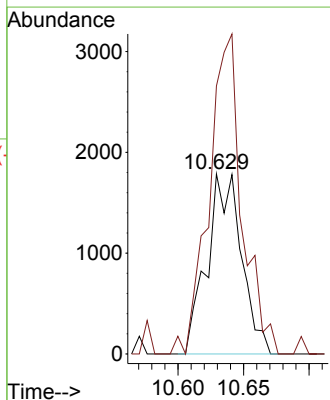
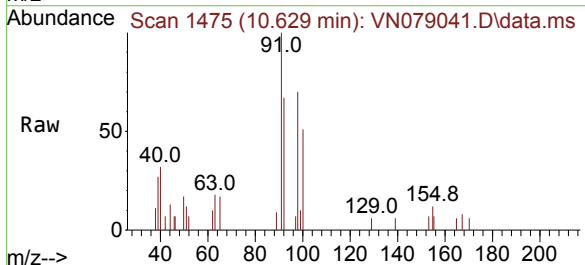
Instrument :
MSVOA_N
ClientSampleId :

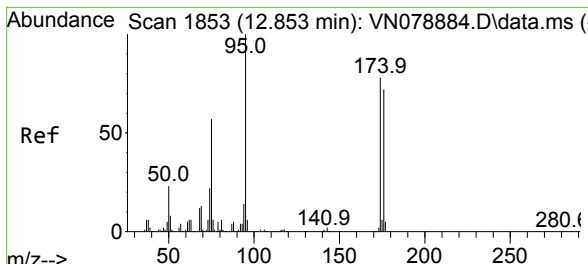
Tgt Ion: 98 Resp: 634581
Ion Ratio Lower Upper
98 100
100 64.5 52.0 78.0



#52
Toluene
Concen: 0.335 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.006 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

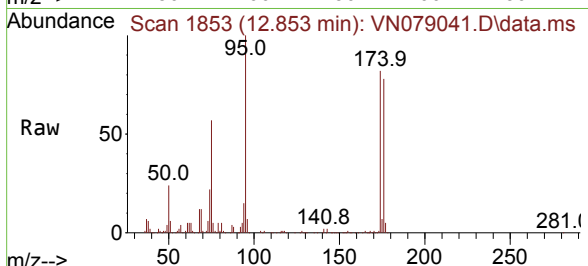
Tgt Ion: 92 Resp: 3254
Ion Ratio Lower Upper
92 100
91 170.7 137.4 206.0



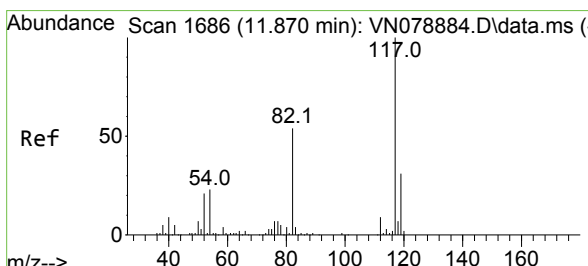
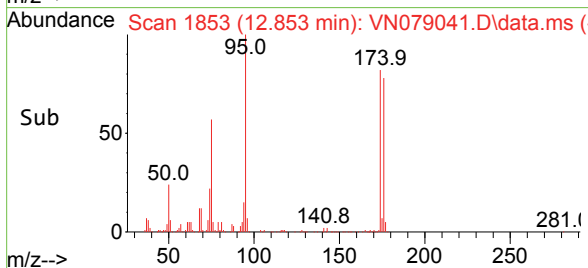
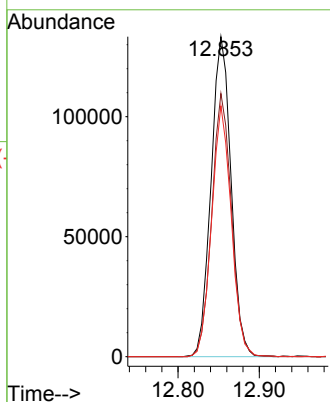


#62
 4-Bromofluorobenzene
 Concen: 52.767 ug/l
 RT: 12.853 min Scan# 1853
 Delta R.T. -0.000 min
 Lab File: VN079041.D
 Acq: 24 Aug 2023 19:07

Instrument :
 MSVOA_N
 ClientSampleId :

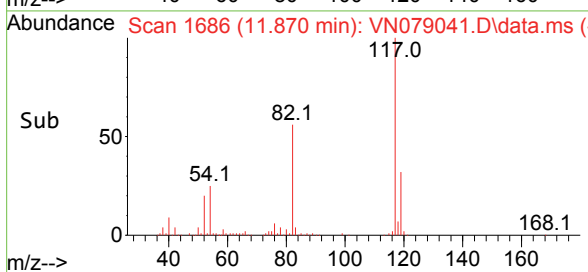
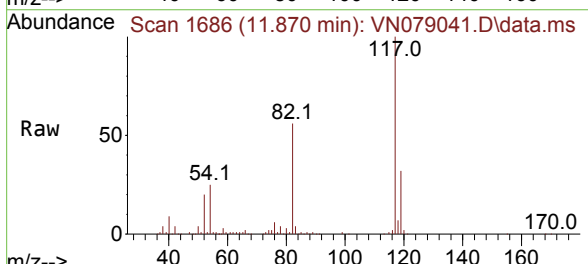
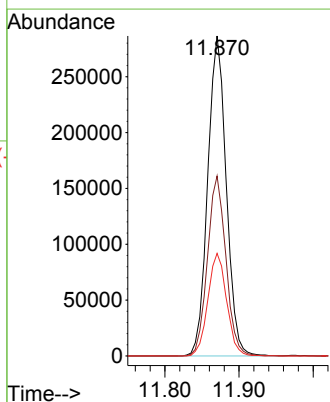


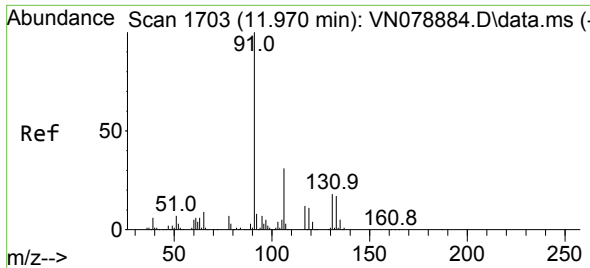
Tgt Ion:	95	Resp:	228106
Ion	Ratio	Lower	Upper
95	100		
174	81.1	0.0	143.8
176	77.1	0.0	135.8



#63
 Chlorobenzene-d5
 Concen: 50.000 ug/l
 RT: 11.870 min Scan# 1686
 Delta R.T. -0.001 min
 Lab File: VN079041.D
 Acq: 24 Aug 2023 19:07

Tgt Ion:	117	Resp:	498107
Ion	Ratio	Lower	Upper
117	100		
82	56.2	44.0	66.0
119	32.1	25.6	38.4

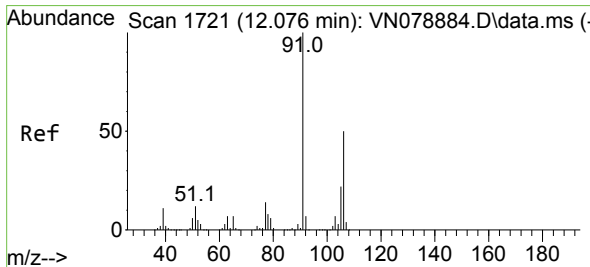
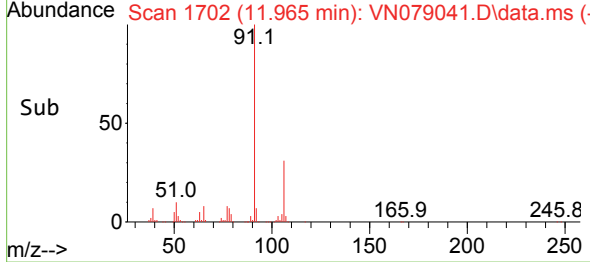
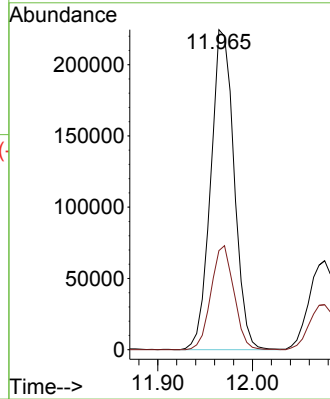
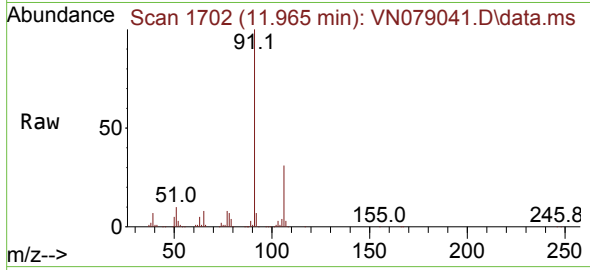




#67
Ethyl Benzene
Concen: 19.988 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.006 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

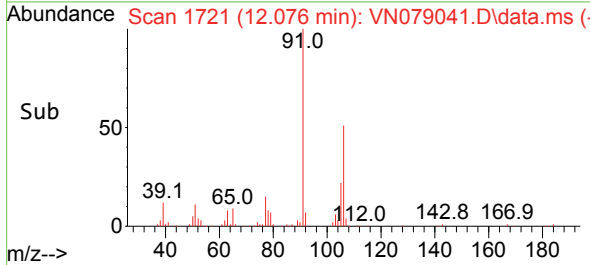
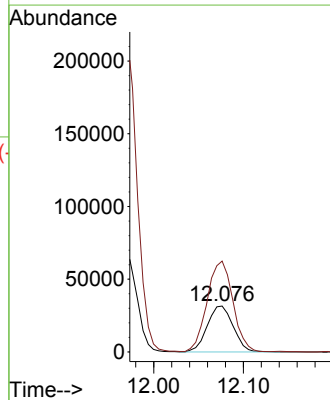
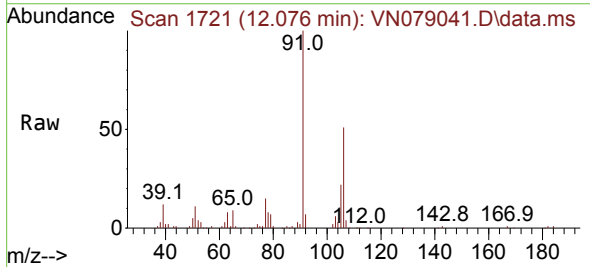
Instrument :
MSVOA_N
ClientSampleId :

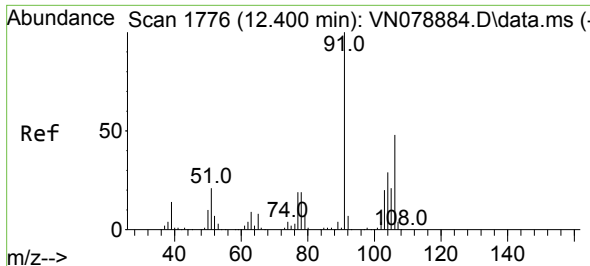
Tgt Ion: 91 Resp: 385393
Ion Ratio Lower Upper
91 100
106 31.0 25.6 38.4



#68
m/p-Xylenes
Concen: 8.786 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

Tgt Ion:106 Resp: 63335
Ion Ratio Lower Upper
106 100
91 195.8 159.6 239.4

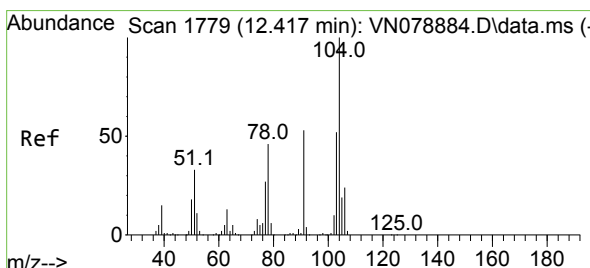
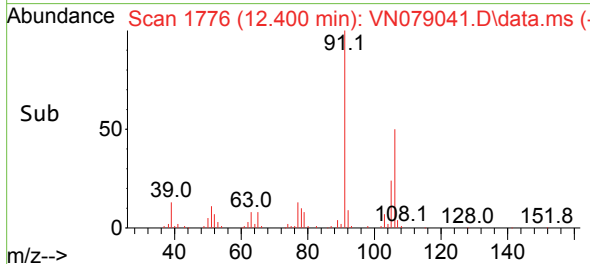
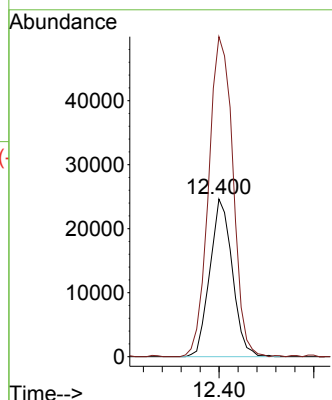
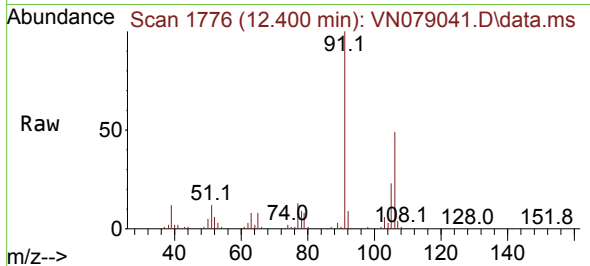




#69
o-Xylene
Concen: 5.781 ug/l
RT: 12.400 min Scan# 1776
Delta R.T. -0.000 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

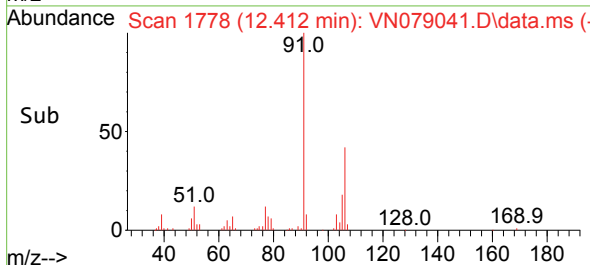
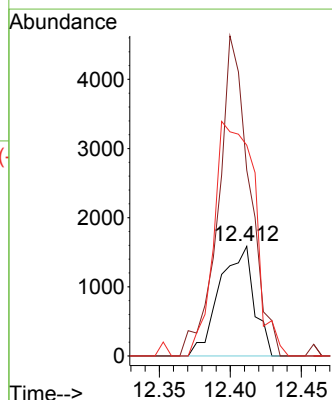
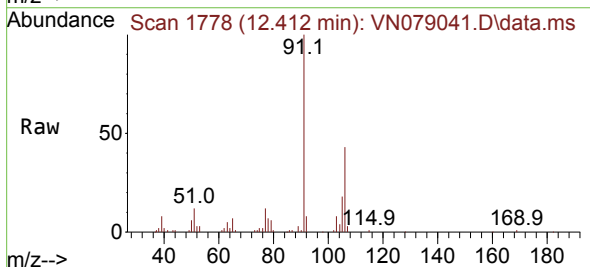
Instrument :
MSVOA_N
ClientSampleId :

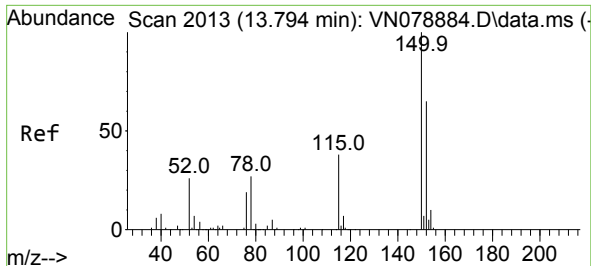
Tgt Ion:106 Resp: 40543
Ion Ratio Lower Upper
106 100
91 220.3 105.2 315.5



#70
Styrene
Concen: 0.229 ug/l
RT: 12.412 min Scan# 1778
Delta R.T. -0.006 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

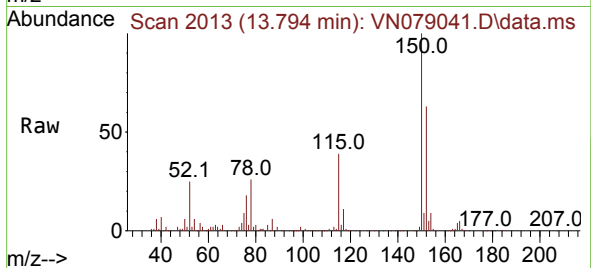
Tgt Ion:104 Resp: 2672
Ion Ratio Lower Upper
104 100
78 264.7 39.5 59.3#
103 252.7 43.2 64.8#



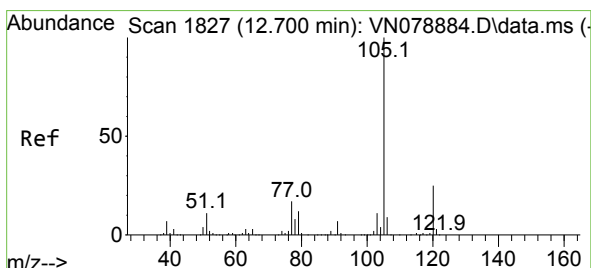
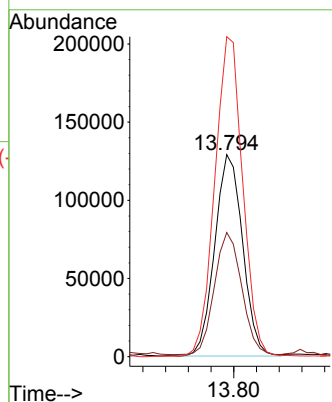
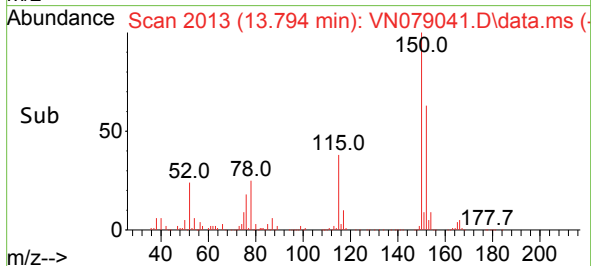


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.794 min Scan# 2013
 Delta R.T. -0.000 min
 Lab File: VN079041.D
 Acq: 24 Aug 2023 19:07

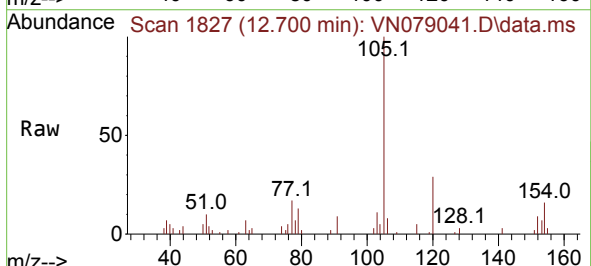
Instrument :
 MSVOA_N
 ClientSampleId :



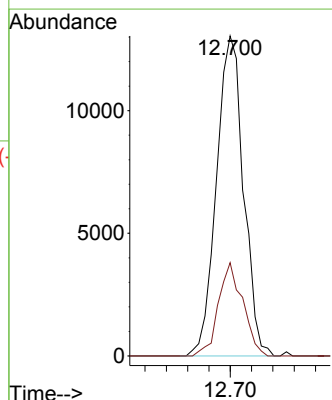
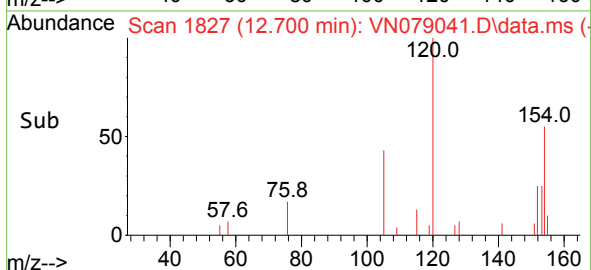
Tgt Ion:152 Resp: 219645
 Ion Ratio Lower Upper
 152 100
 115 61.1 32.3 96.8
 150 159.7 0.0 355.8

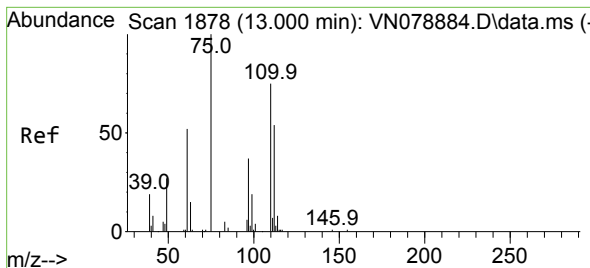


#73
 Isopropylbenzene
 Concen: 1.255 ug/l
 RT: 12.700 min Scan# 1827
 Delta R.T. -0.000 min
 Lab File: VN079041.D
 Acq: 24 Aug 2023 19:07



Tgt Ion:105 Resp: 22980
 Ion Ratio Lower Upper
 105 100
 120 26.3 13.1 39.1





#76

1,2,3-Trichloropropane

Concen: 23.896 ug/l

RT: 12.853 min Scan# 1853

Delta R.T. -0.147 min

Lab File: VN079041.D

Acq: 24 Aug 2023 19:07

Instrument :

MSVOA_N

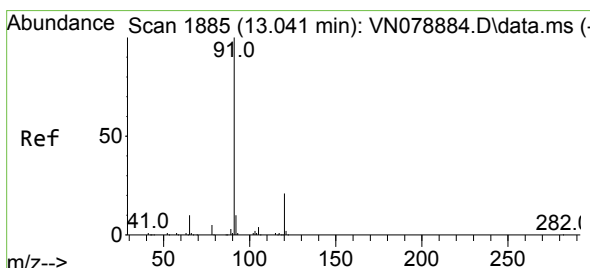
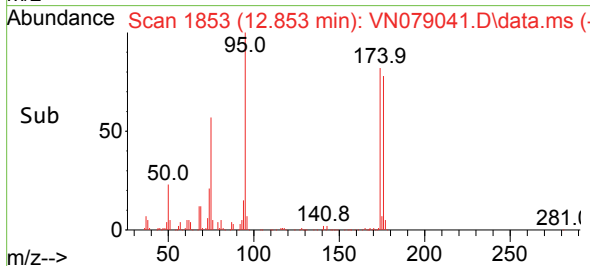
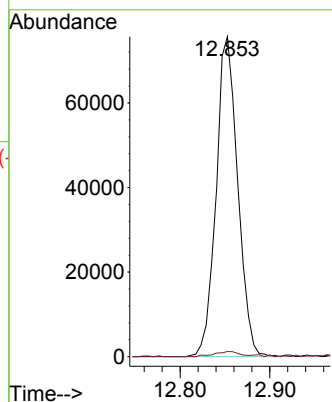
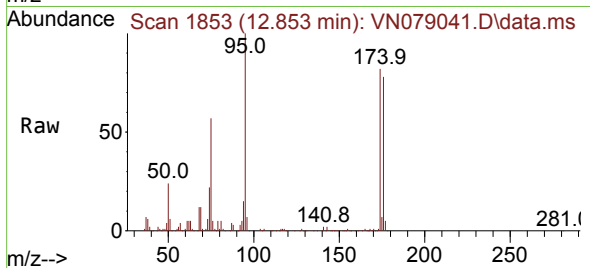
ClientSampleId :

Tgt Ion: 75 Resp: 126468

Ion Ratio Lower Upper

75 100

77 2.1 84.5 253.5#



#78

n-propylbenzene

Concen: 0.436 ug/l

RT: 13.041 min Scan# 1885

Delta R.T. -0.000 min

Lab File: VN079041.D

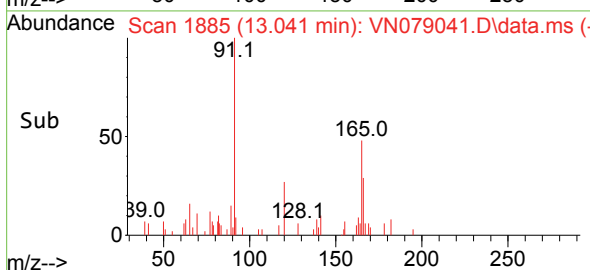
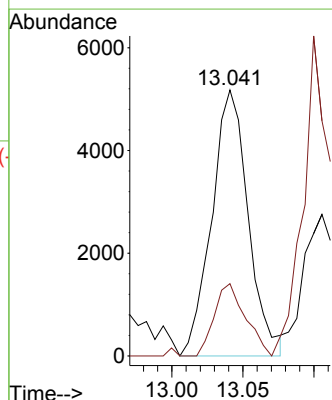
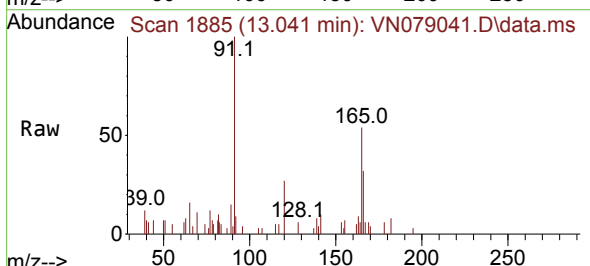
Acq: 24 Aug 2023 19:07

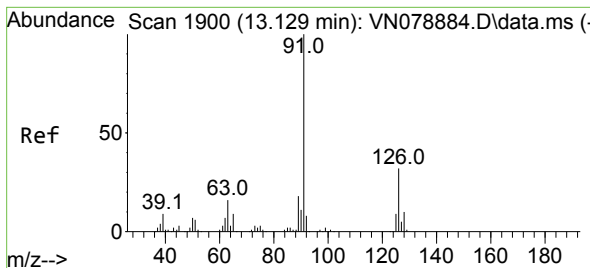
Tgt Ion: 91 Resp: 9256

Ion Ratio Lower Upper

91 100

120 23.2 11.5 34.4





#79

2-Chlorotoluene

Concen: 0.977 ug/l

RT: 13.135 min Scan# 1900

Delta R.T. 0.006 min

Lab File: VN079041.D

Acq: 24 Aug 2023 19:07

Instrument :

MSVOA_N

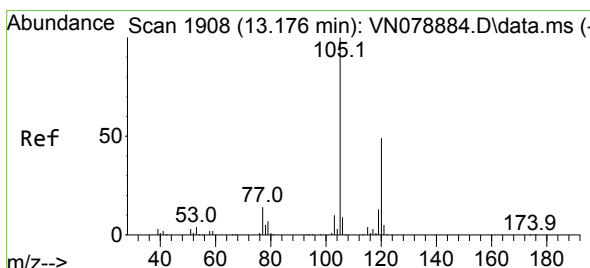
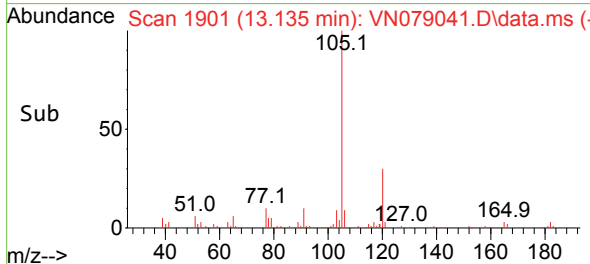
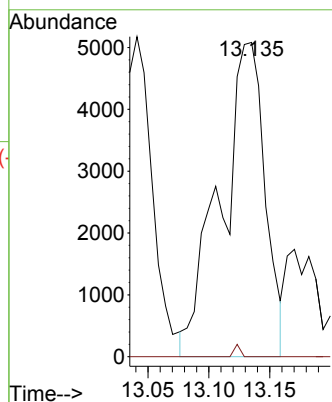
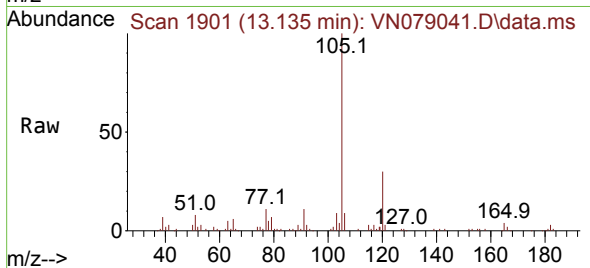
ClientSampleId :

Tgt Ion: 91 Resp: 12869

Ion Ratio Lower Upper

91 100

126 0.6 16.3 48.8#



#80

1,3,5-Trimethylbenzene

Concen: 1.333 ug/l

RT: 13.176 min Scan# 1908

Delta R.T. 0.000 min

Lab File: VN079041.D

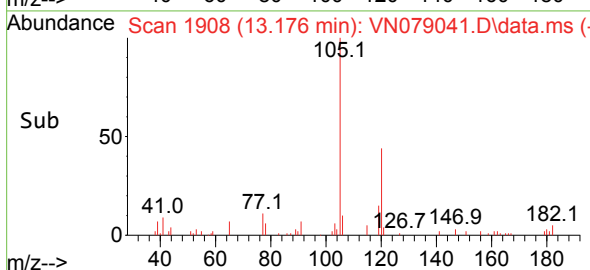
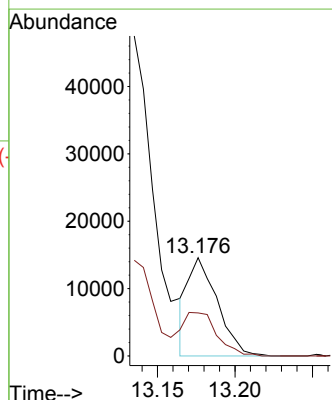
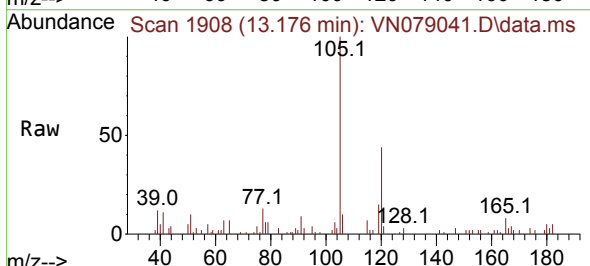
Acq: 24 Aug 2023 19:07

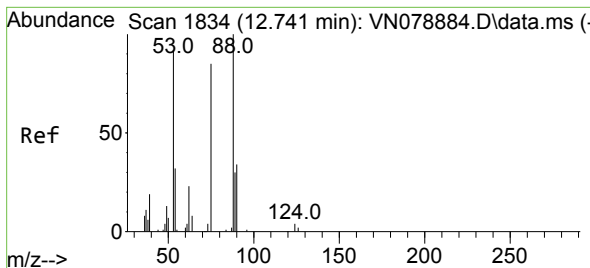
Tgt Ion: 105 Resp: 19340

Ion Ratio Lower Upper

105 100

120 53.4 24.1 72.3

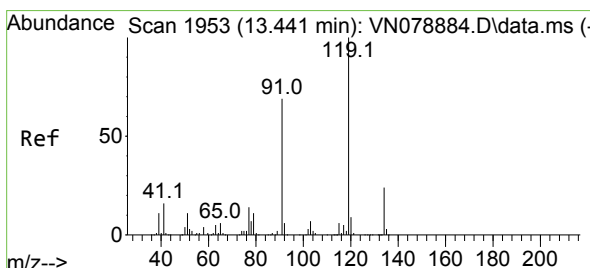
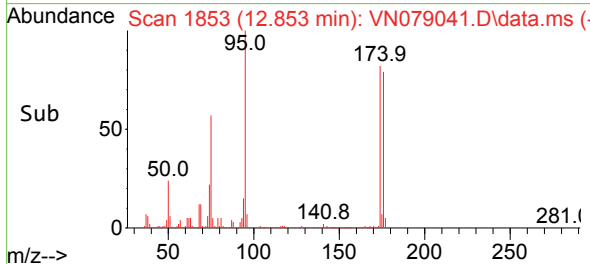
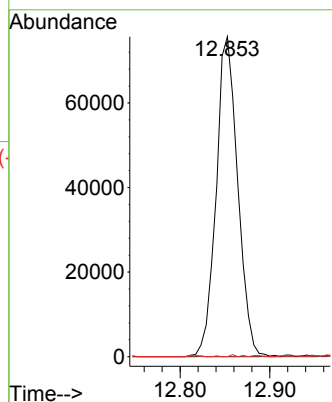
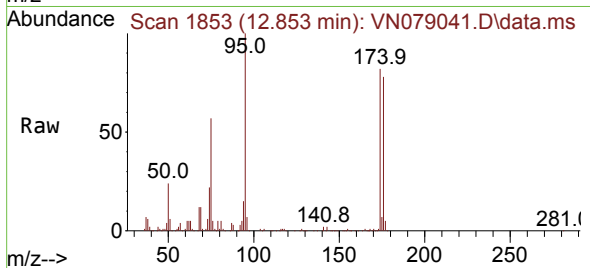




#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.045 ug/l
 RT: 12.853 min Scan# 1961
 Delta R.T. 0.112 min
 Lab File: VN079041.D
 Acq: 24 Aug 2023 19:07

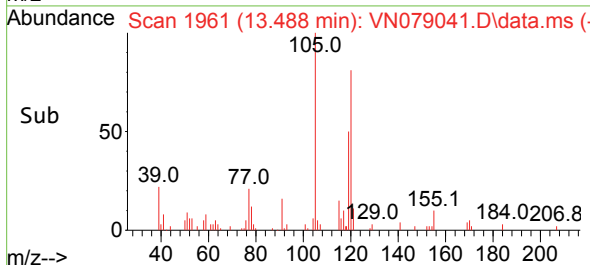
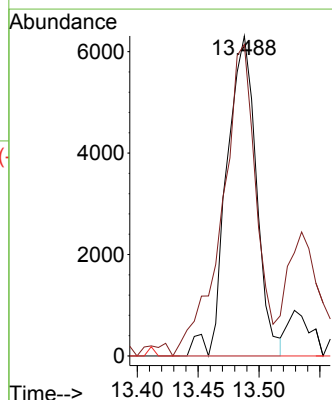
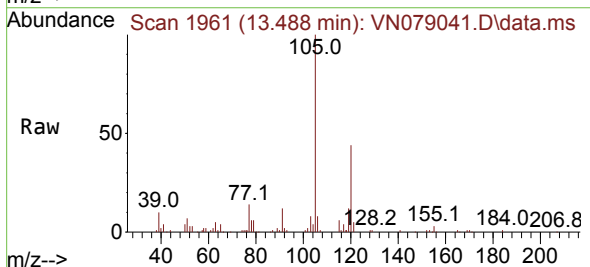
Instrument :
 MSVOA_N
 ClientSampleId :

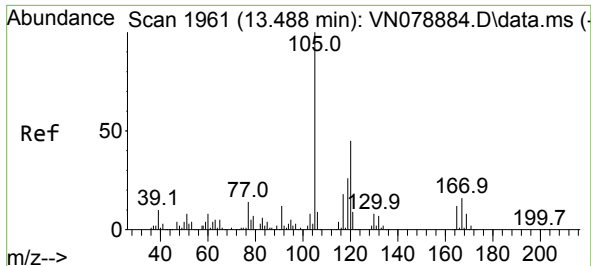
Tgt Ion: 75 Resp: 126468
 Ion Ratio Lower Upper
 75 100
 53 0.0 67.4 101.2#
 89 0.3 38.8 58.2#



#83
 tert-Butylbenzene
 Concen: 0.878 ug/l
 RT: 13.488 min Scan# 1961
 Delta R.T. 0.047 min
 Lab File: VN079041.D
 Acq: 24 Aug 2023 19:07

Tgt Ion: 119 Resp: 10706
 Ion Ratio Lower Upper
 119 100
 91 111.0 33.9 101.7#
 134 0.0 13.2 39.6#

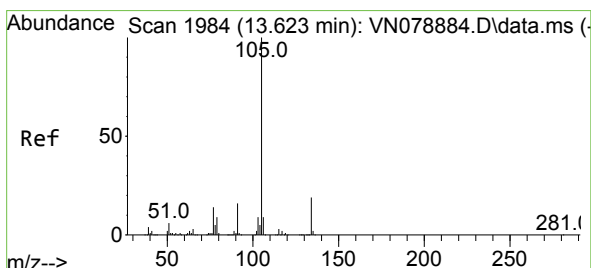
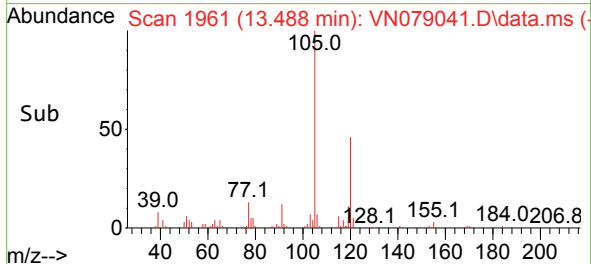
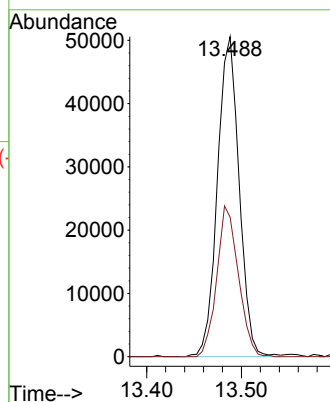
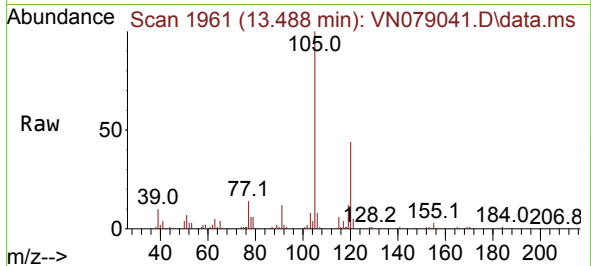




#84
1,2,4-Trimethylbenzene
Concen: 5.608 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. -0.000 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

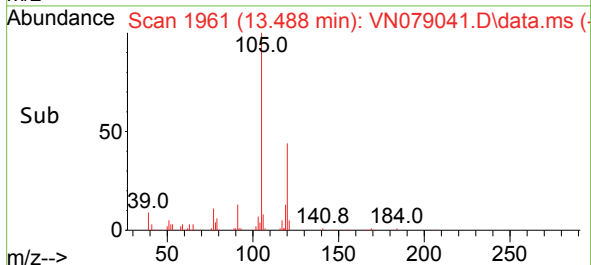
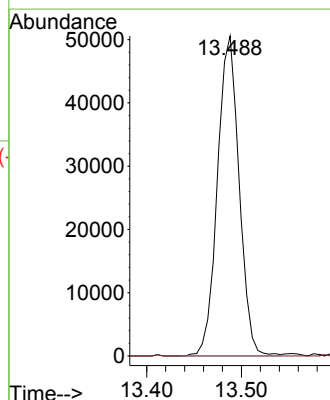
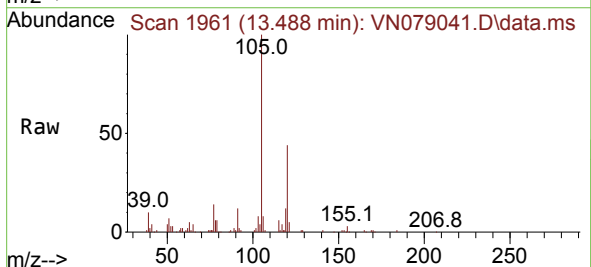
Instrument :
MSVOA_N
ClientSampleId :

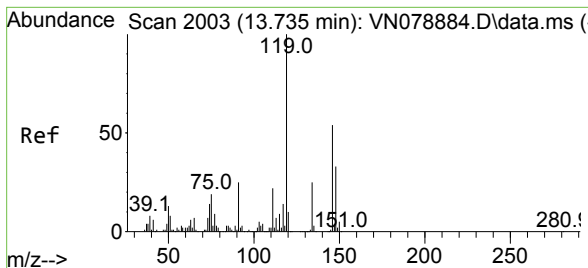
Tgt Ion:105 Resp: 80590
Ion Ratio Lower Upper
105 100
120 46.9 22.0 66.0



#85
sec-Butylbenzene
Concen: 4.802 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. -0.135 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

Tgt Ion:105 Resp: 80590
Ion Ratio Lower Upper
105 100
134 0.0 9.8 29.3#

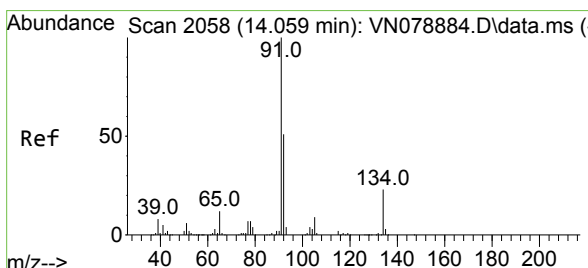
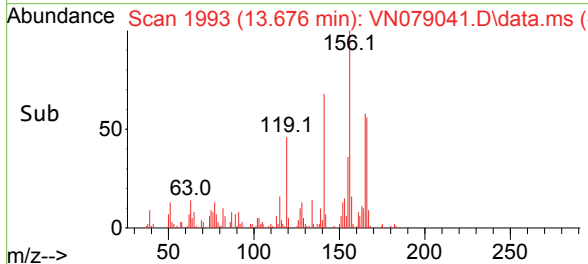
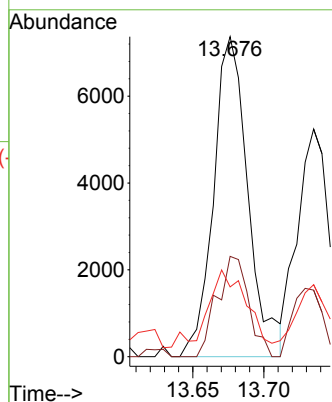
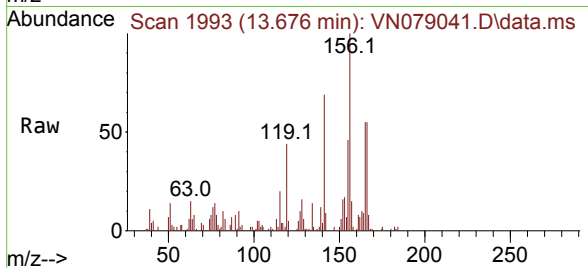




#86
p-Isopropyltoluene
Concen: 0.928 ug/l
RT: 13.676 min Scan# 193
Delta R.T. -0.059 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

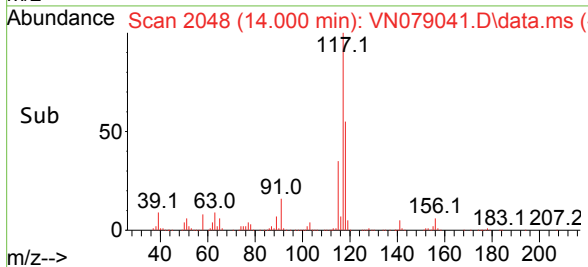
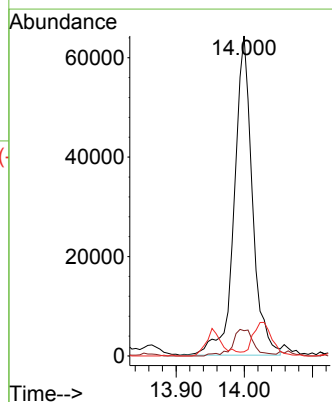
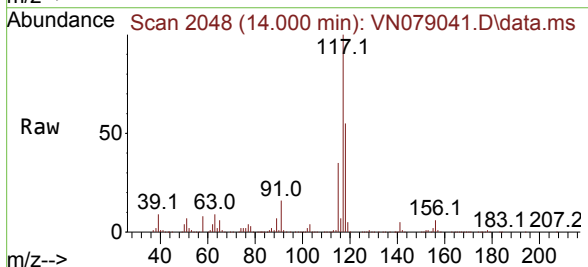
Instrument :
MSVOA_N
ClientSampleId :

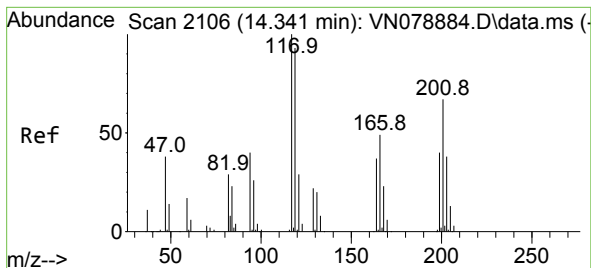
Tgt Ion:119 Resp: 12442
Ion Ratio Lower Upper
119 100
134 28.6 12.6 37.8
91 26.3 12.4 37.2



#89
n-Butylbenzene
Concen: 10.737 ug/l
RT: 14.000 min Scan# 2048
Delta R.T. -0.059 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

Tgt Ion: 91 Resp: 118477
Ion Ratio Lower Upper
91 100
92 9.9 26.4 79.0#
134 0.0 12.6 37.6#





#90

Hexachloroethane

Concen: 2.380 ug/l

RT: 14.335 min Scan# 2105

Delta R.T. -0.000 min

Lab File: VN079041.D

Acq: 24 Aug 2023 19:07

Instrument :

MSVOA_N

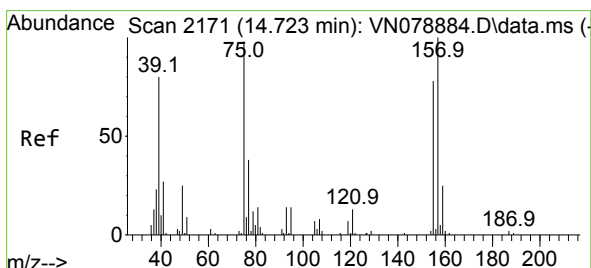
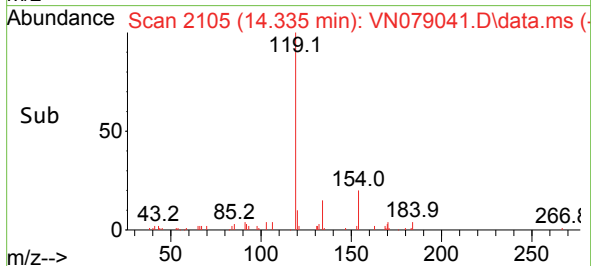
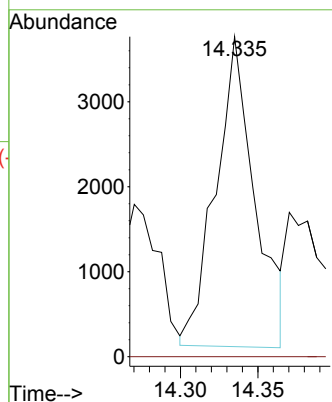
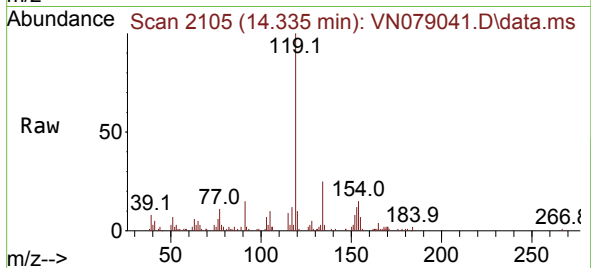
ClientSampleId :

Tgt Ion:117 Resp: 6396

Ion Ratio Lower Upper

117 100

201 0.0 29.3 88.0#



#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.476 min Scan# 2129

Delta R.T. -0.247 min

Lab File: VN079041.D

Acq: 24 Aug 2023 19:07

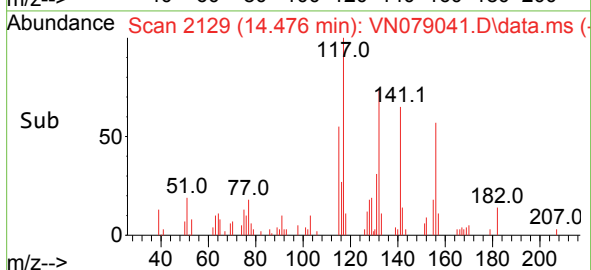
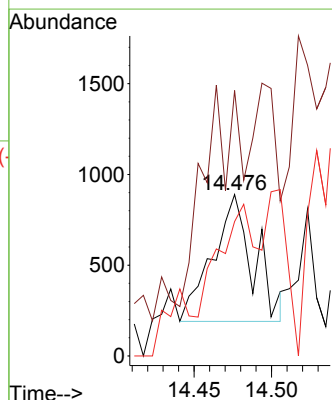
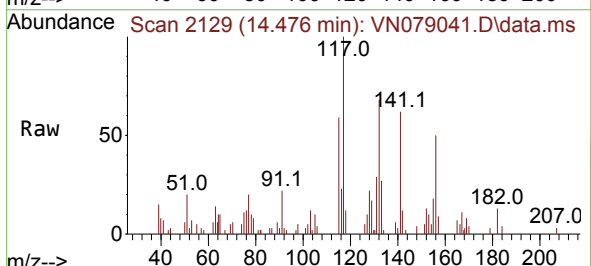
Tgt Ion: 75 Resp: 1274

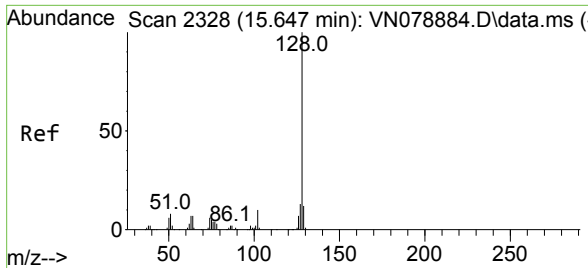
Ion Ratio Lower Upper

75 100

155 98.9 39.1 117.2

157 80.2 50.3 150.9





#95
Naphthalene
Concen: 291.285 ug/l
RT: 15.647 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN079041.D
Acq: 24 Aug 2023 19:07

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 3080913
Ion Ratio Lower Upper
128 100
127 13.3 10.0 15.0
129 10.9 8.7 13.1

