

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN021423\
 Data File : VN076665.D
 Acq On : 14 Feb 2023 17:00
 Operator : JC\MD
 Sample : 01549-07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 1831

Quant Time: Feb 15 03:15:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N021323W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 14 01:44:47 2023
 Response via : Initial Calibration

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

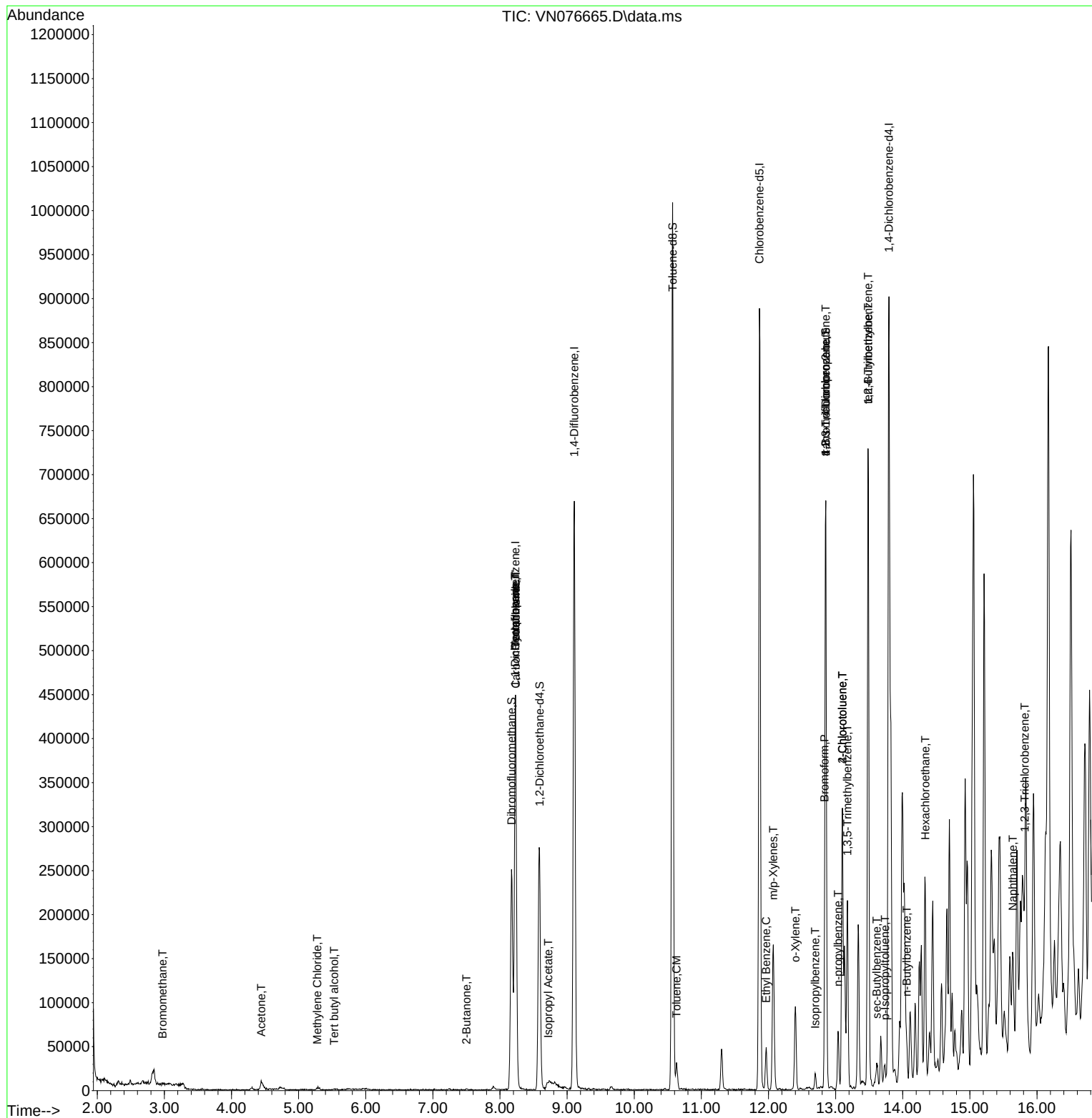
Internal Standards						
1) Pentafluorobenzene	8.230	168	309742	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	561465	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	494809	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	227253	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.589	65	221080	51.689	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	103.380%		
35) Dibromofluoromethane	8.172	113	169832	46.188	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	92.380%		
50) Toluene-d8	10.571	98	675570	49.198	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	98.400%		
62) 4-Bromofluorobenzene	12.854	95	213580	46.961	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	93.920%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.972	94	1206	0.471	ug/l	91
11) Tert butyl alcohol	5.531	59	495	0.877	ug/l #	71
16) Acetone	4.442	43	16729	8.756	ug/l	99
20) Methylene Chloride	5.278	84	1385	0.346	ug/l #	30
25) 2-Butanone	7.501	43	1855	0.658	ug/l #	51
31) Cyclohexane	8.230	56	8467	1.262	ug/l #	39
36) 1,1-Dichloropropene	8.224	75	27609	5.197	ug/l #	51
38) Carbon Tetrachloride	8.236	117	32927	6.144	ug/l #	18
43) Isopropyl Acetate	8.719	43	6214	0.683	ug/l #	56
52) Toluene	10.630	92	10606	1.077	ug/l	97
67) Ethyl Benzene	11.965	91	30492	1.707	ug/l	93
68) m/p-Xylenes	12.071	106	52947	7.689	ug/l	98
69) o-Xylene	12.401	106	25886	3.854	ug/l	98
71) Bromoform	12.836	173	1058	0.379	ug/l #	1
73) Isopropylbenzene	12.695	105	10569	0.635	ug/l	100
76) 1,2,3-Trichloropropane	12.854	75	119912	26.100	ug/l #	1
78) n-propylbenzene	13.036	91	48301	2.469	ug/l	99
79) 2-Chlorotoluene	13.101	91	37794	3.156	ug/l #	39
80) 1,3,5-Trimethylbenzene	13.177	105	102691	7.460	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.854	75	119912	76.017	ug/l #	4
82) 4-Chlorotoluene	13.101	91	37794	3.156	ug/l #	39
83) tert-Butylbenzene	13.483	119	49819	4.001	ug/l #	65
84) 1,2,4-Trimethylbenzene	13.483	105	398180	29.023	ug/l	99
85) sec-Butylbenzene	13.612	105	16012	0.921	ug/l	86
86) p-Isopropyltoluene	13.736	119	11751	0.846	ug/l	94
89) n-Butylbenzene	14.059	91	23012	1.906	ug/l #	67
90) Hexachloroethane	14.336	117	12060	4.149	ug/l #	14
95) Naphthalene	15.642	128	93112	7.638	ug/l	95
96) 1,2,3-Trichlorobenzene	15.818	180	833	0.214	ug/l #	1

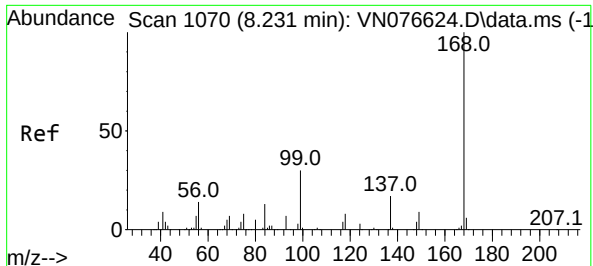
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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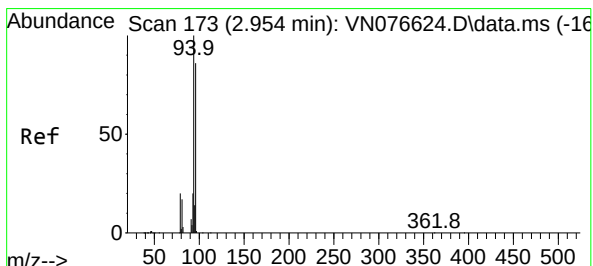
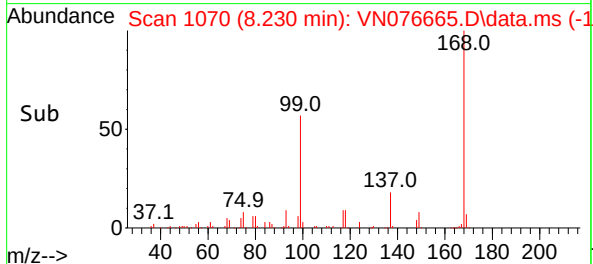
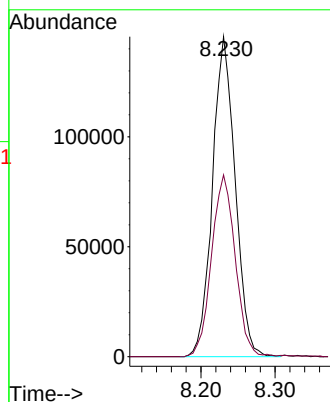
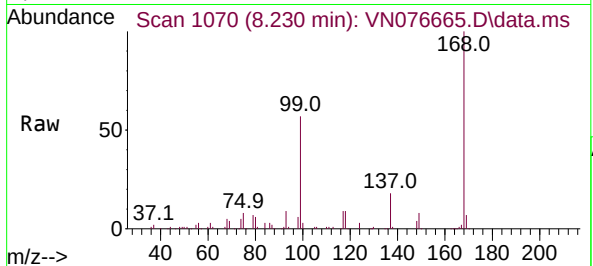




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 11
Delta R.T. -0.001 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

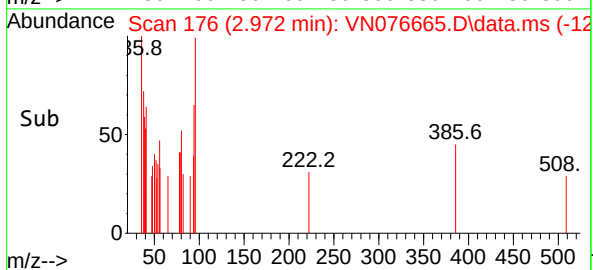
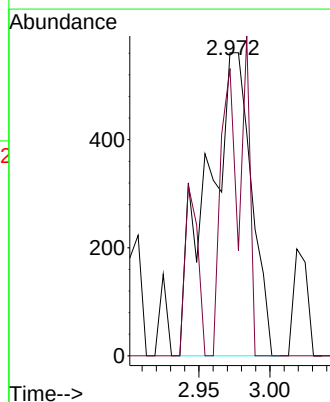
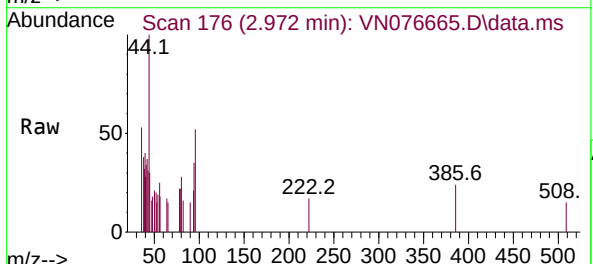
Instrument :
MSVOA_N
ClientSampleId :
1831

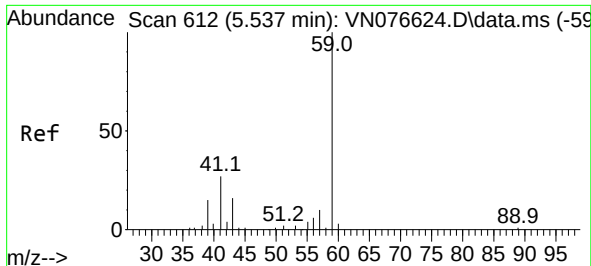
Tgt Ion:168 Resp: 309742
Ion Ratio Lower Upper
168 100
99 56.8 44.8 67.2



#5
Bromomethane
Concen: 0.471 ug/l
RT: 2.972 min Scan# 176
Delta R.T. 0.018 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion: 94 Resp: 1206
Ion Ratio Lower Upper
94 100
96 94.8 69.0 103.4

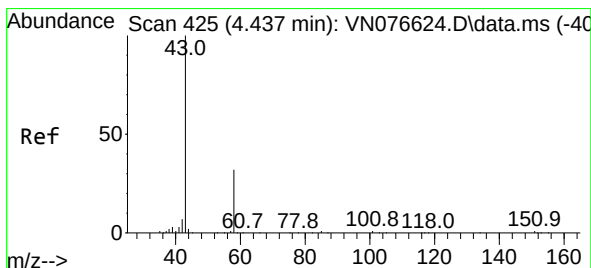
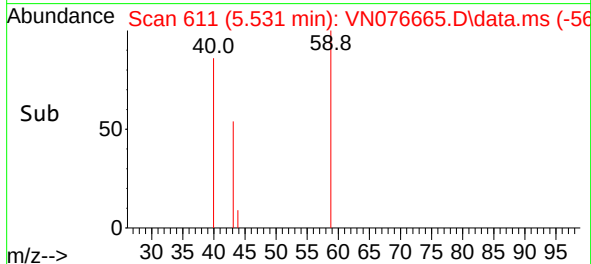
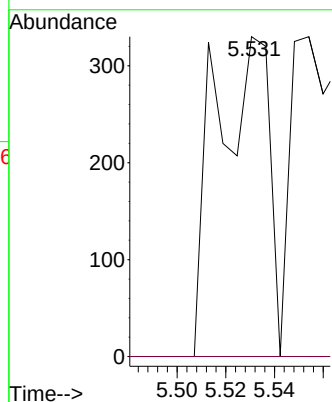
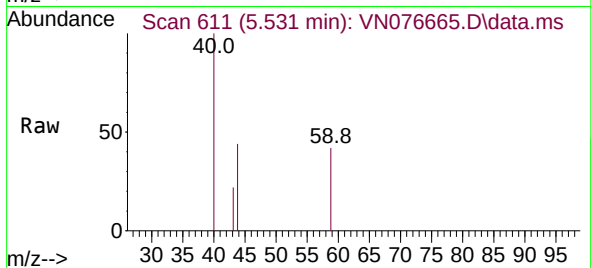




#11
Tert butyl alcohol
Concen: 0.877 ug/l
RT: 5.531 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

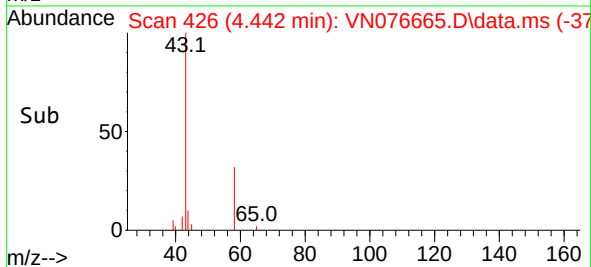
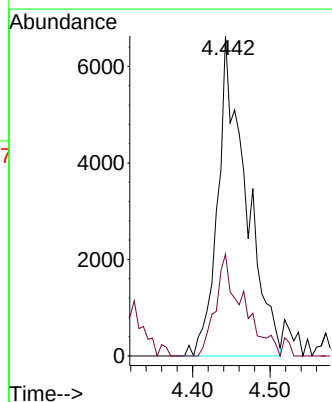
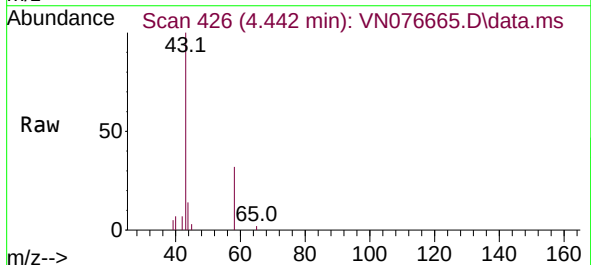
Instrument :
MSVOA_N
ClientSampleId :
1831

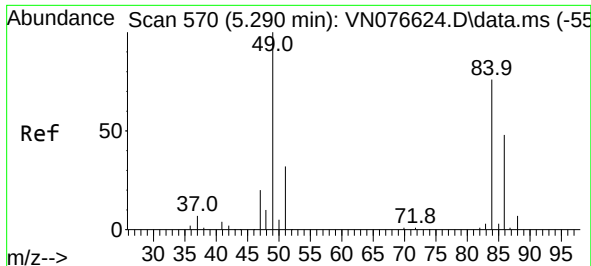
Tgt Ion: 59 Resp: 495
Ion Ratio Lower Upper
59 100
57 0.0 8.7 13.1#



#16
Acetone
Concen: 8.756 ug/l
RT: 4.442 min Scan# 426
Delta R.T. 0.005 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion: 43 Resp: 16729
Ion Ratio Lower Upper
43 100
58 31.8 25.9 38.9

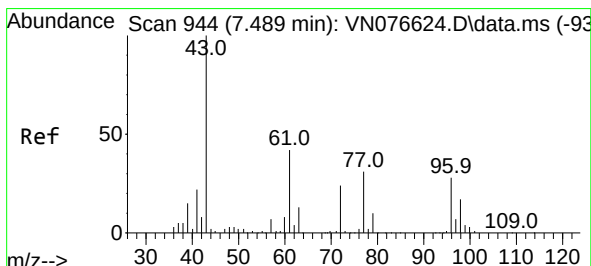
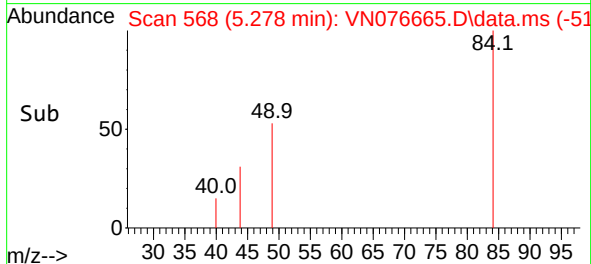
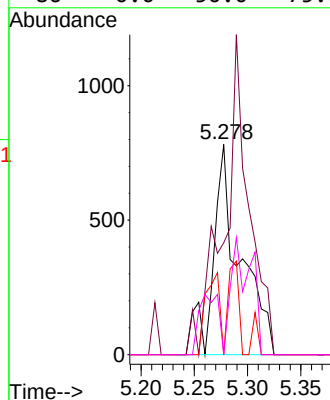
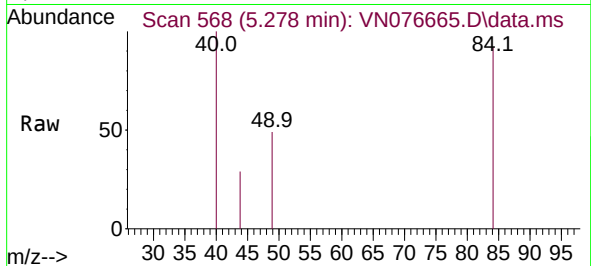




#20
Methylene Chloride
Concen: 0.346 ug/l
RT: 5.278 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

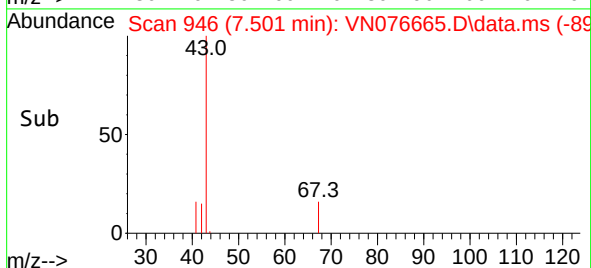
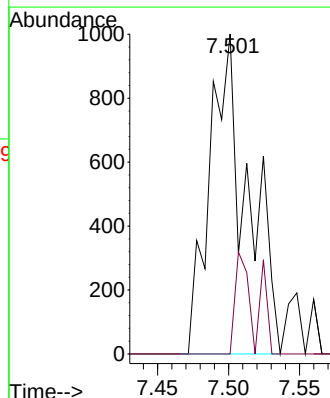
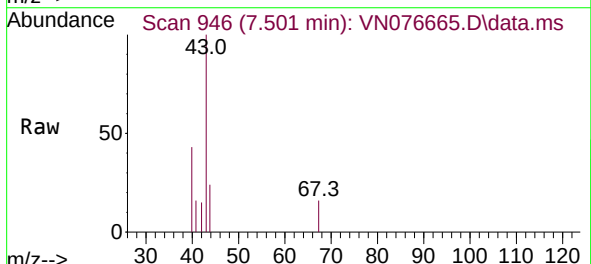
Instrument :
MSVOA_N
ClientSampleId :
1831

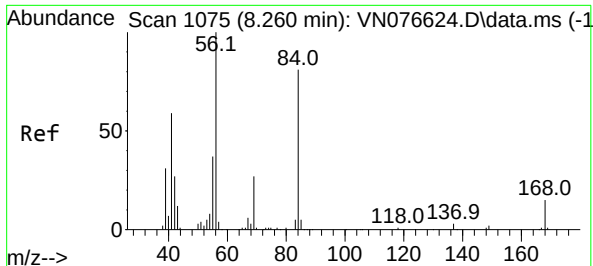
Tgt Ion: 84 Resp: 1385
Ion Ratio Lower Upper
84 100
49 53.2 104.9 157.3#
51 0.0 33.8 50.8#
86 0.0 50.0 75.0#



#25
2-Butanone
Concen: 0.658 ug/l
RT: 7.501 min Scan# 946
Delta R.T. 0.012 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion: 43 Resp: 1855
Ion Ratio Lower Upper
43 100
72 0.0 19.4 29.2#





#31

Cyclohexane

Concen: 1.262 ug/l

RT: 8.230 min Scan# 1075

Delta R.T. -0.030 min

Lab File: VN076665.D

Acq: 14 Feb 2023 17:00

Instrument :

MSVOA_N

ClientSampleId :

1831

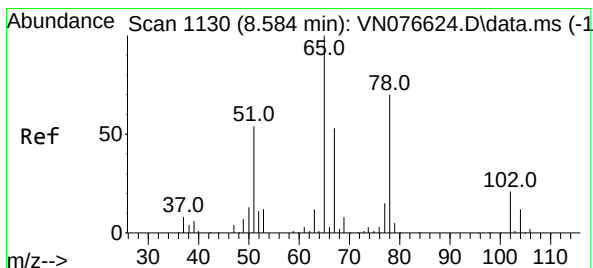
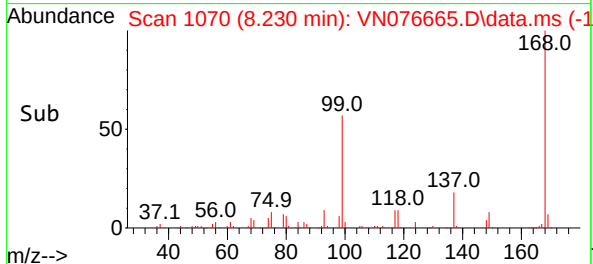
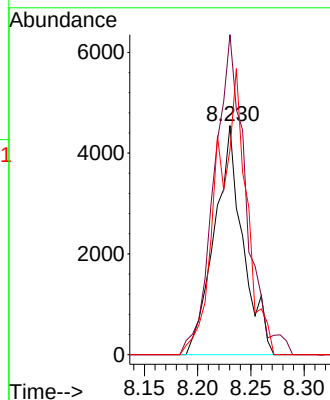
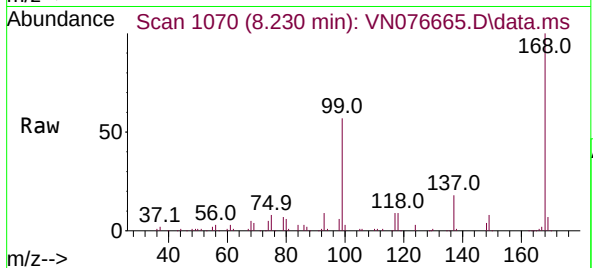
Tgt Ion: 56 Resp: 8467

Ion Ratio Lower Upper

56 100

69 139.6 21.6 32.4#

84 89.2 65.1 97.7



#33

1,2-Dichloroethane-d4

Concen: 51.689 ug/l

RT: 8.589 min Scan# 1131

Delta R.T. 0.005 min

Lab File: VN076665.D

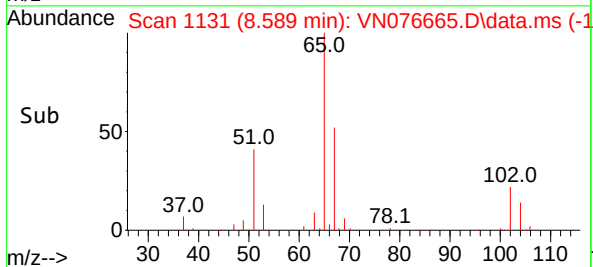
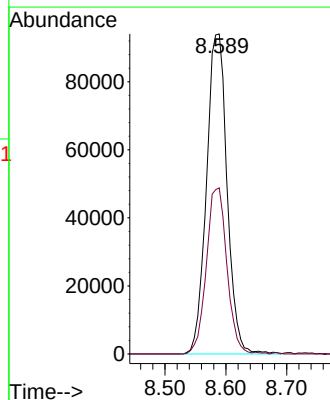
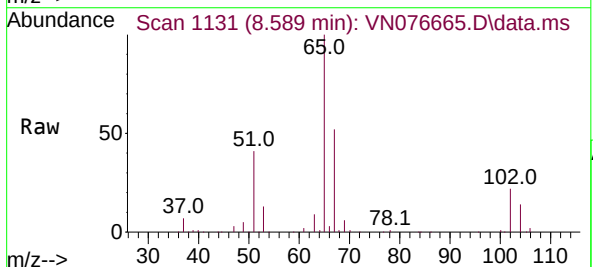
Acq: 14 Feb 2023 17:00

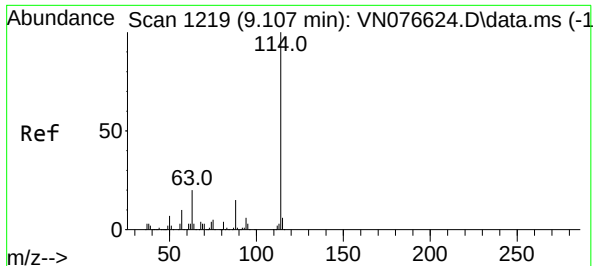
Tgt Ion: 65 Resp: 221080

Ion Ratio Lower Upper

65 100

67 51.9 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.107 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN076665.D

Acq: 14 Feb 2023 17:00

Instrument :

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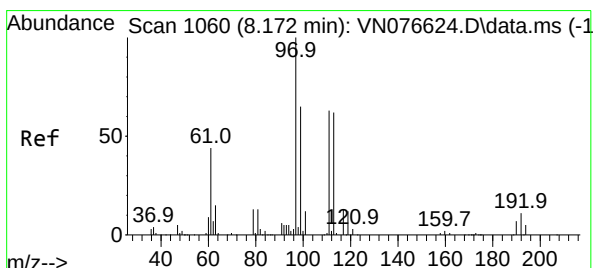
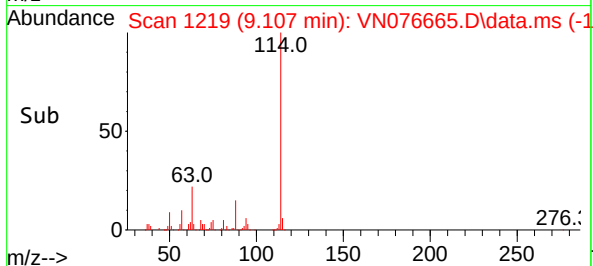
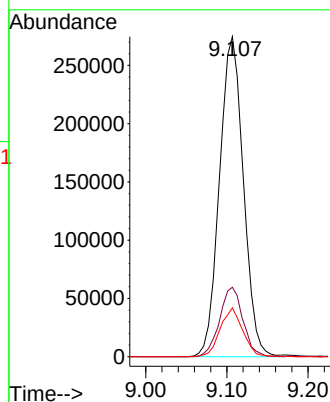
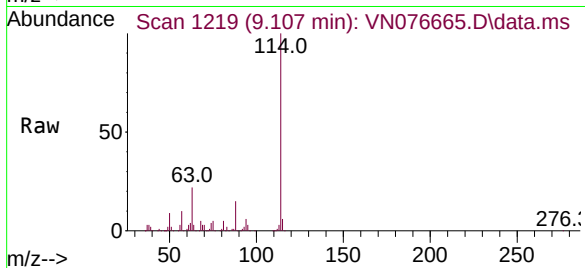
Tgt Ion:114 Resp: 561465

Ion Ratio Lower Upper

114 100

63 21.7 0.0 40.0

88 15.3 0.0 29.6



#35

Dibromofluoromethane

Concen: 46.188 ug/l

RT: 8.172 min Scan# 1060

Delta R.T. -0.000 min

Lab File: VN076665.D

Acq: 14 Feb 2023 17:00

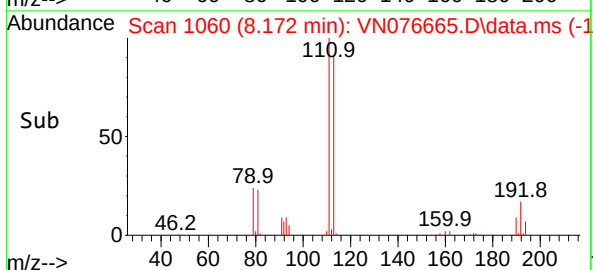
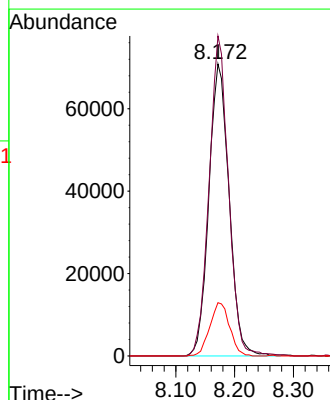
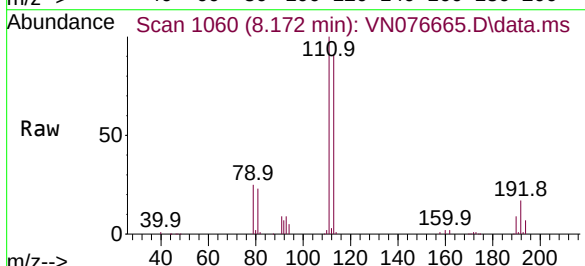
Tgt Ion:113 Resp: 169832

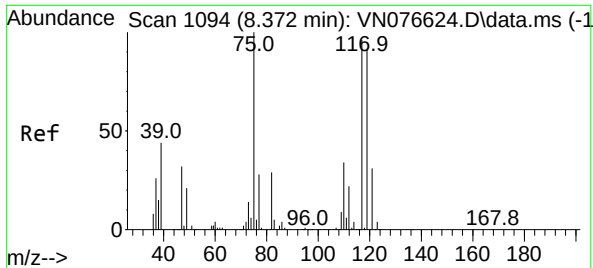
Ion Ratio Lower Upper

113 100

111 105.1 83.1 124.7

192 17.8 15.6 23.4

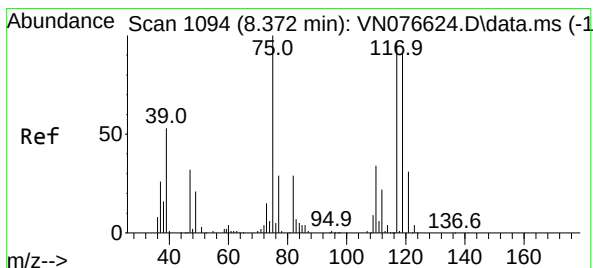
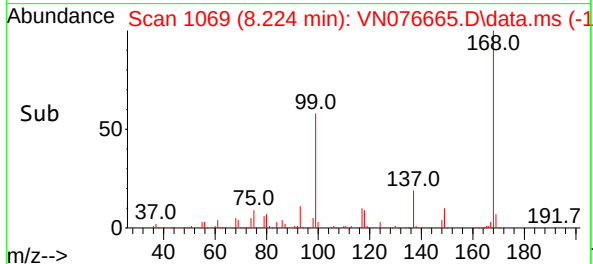
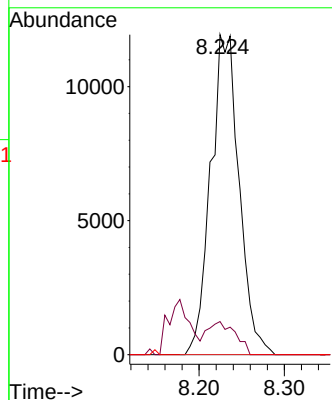
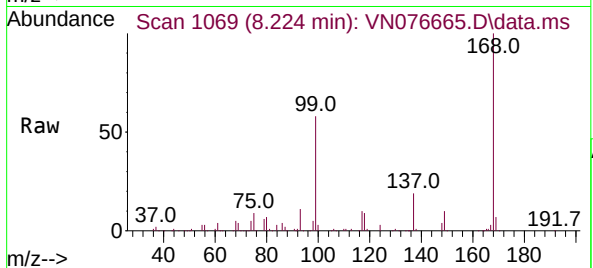




#36
1,1-Dichloropropene
Concen: 5.197 ug/l
RT: 8.224 min Scan# 1069
Delta R.T. -0.148 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

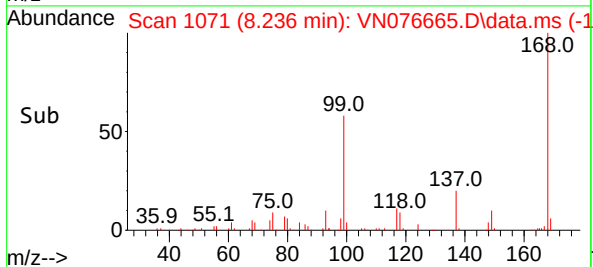
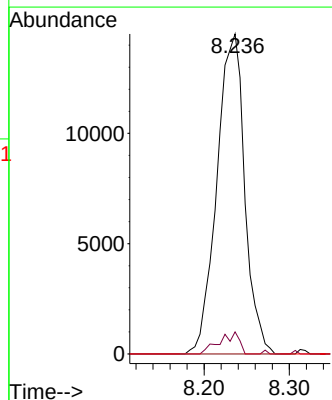
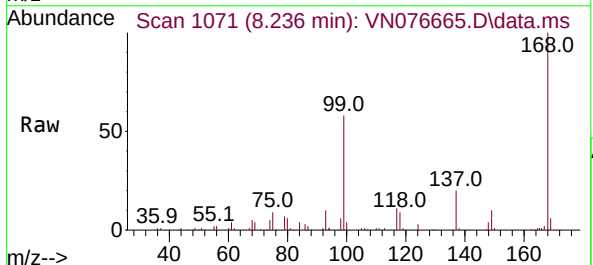
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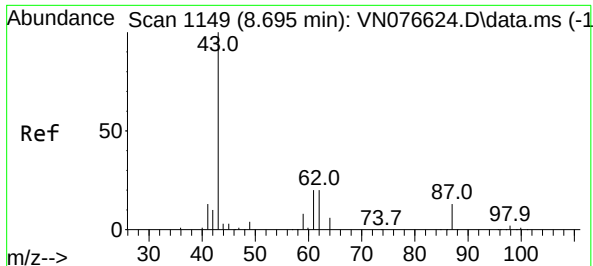
Tgt Ion: 75 Resp: 27609
Ion Ratio Lower Upper
75 100
110 10.3 17.5 52.5#
77 0.0 24.5 36.7#



#38
Carbon Tetrachloride
Concen: 6.144 ug/l
RT: 8.236 min Scan# 1071
Delta R.T. -0.136 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion: 117 Resp: 32927
Ion Ratio Lower Upper
117 100
119 6.9 75.4 113.0#
121 0.0 26.0 39.0#

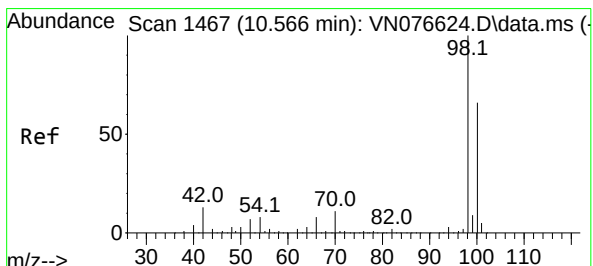
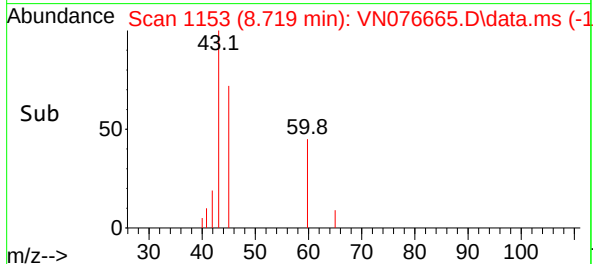
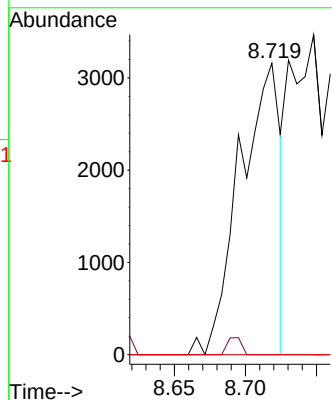
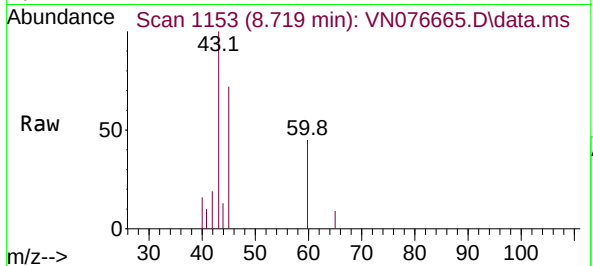




#43
Isopropyl Acetate
Concen: 0.683 ug/l
RT: 8.719 min Scan# 1149
Delta R.T. 0.024 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

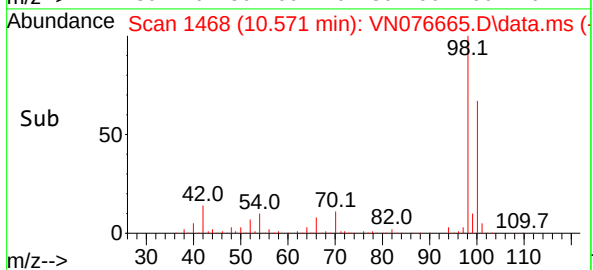
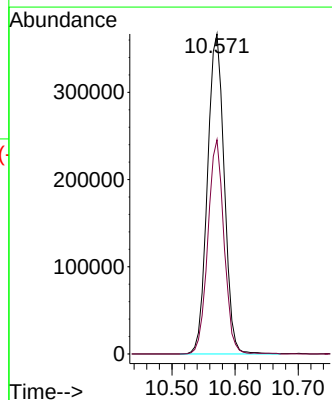
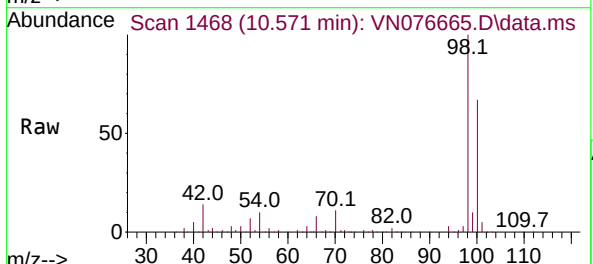
Instrument :
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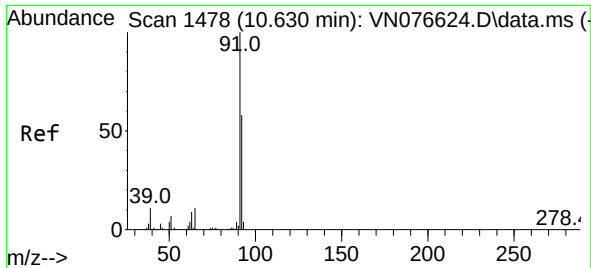
Tgt Ion: 43 Resp: 6214
Ion Ratio Lower Upper
43 100
61 0.0 20.0 30.0#
87 0.0 9.9 14.9#



#50
Toluene-d8
Concen: 49.198 ug/l
RT: 10.571 min Scan# 1468
Delta R.T. 0.005 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion: 98 Resp: 675570
Ion Ratio Lower Upper
98 100
100 64.4 52.9 79.3

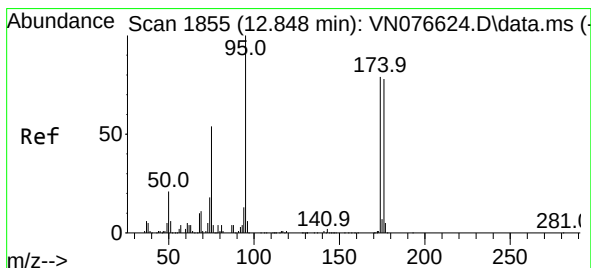
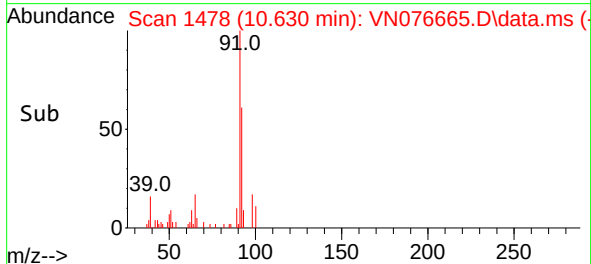
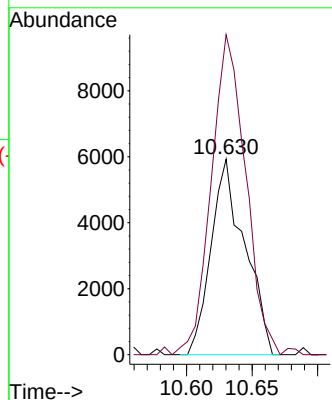
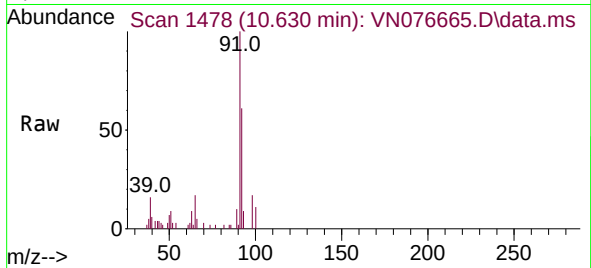




#52
Toluene
Concen: 1.077 ug/l
RT: 10.630 min Scan# 1478
Delta R.T. 0.000 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

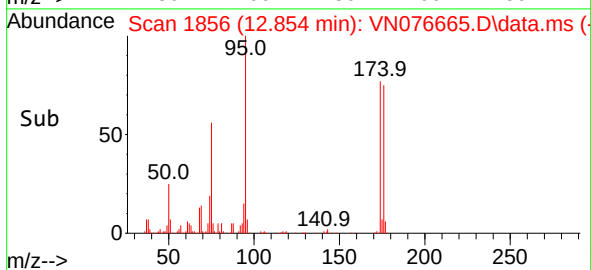
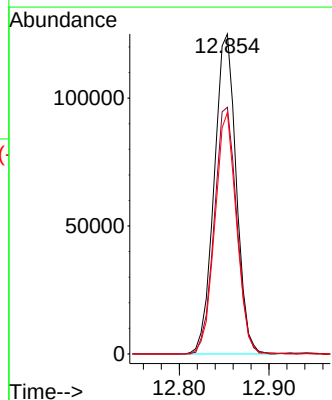
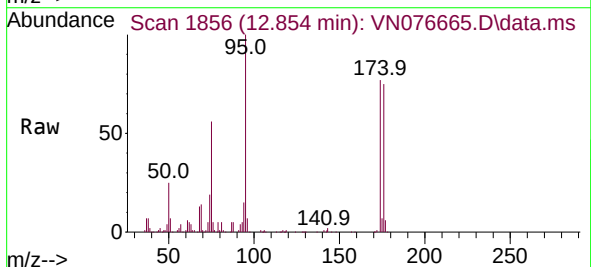
Instrument :
MSVOA_N
ClientSampleId :
1831

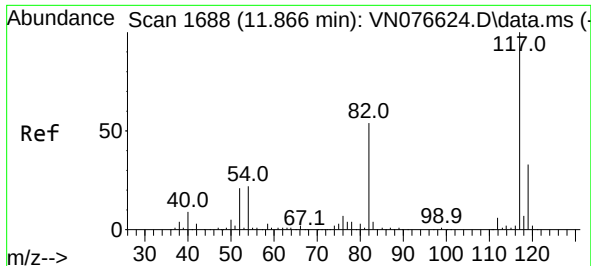
Tgt Ion: 92 Resp: 10606
Ion Ratio Lower Upper
92 100
91 168.3 138.0 207.0



#62
4-Bromofluorobenzene
Concen: 46.961 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.006 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion: 95 Resp: 213580
Ion Ratio Lower Upper
95 100
174 78.5 0.0 169.2
176 73.8 0.0 163.4

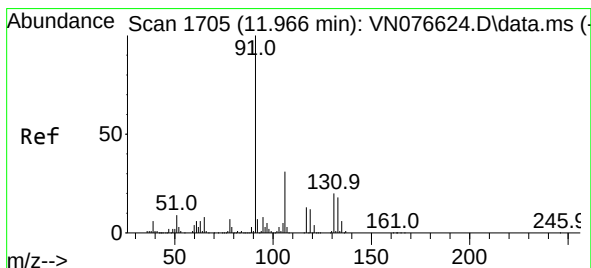
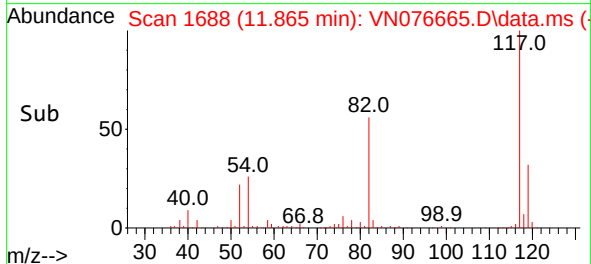
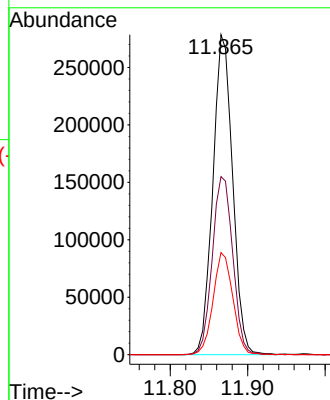
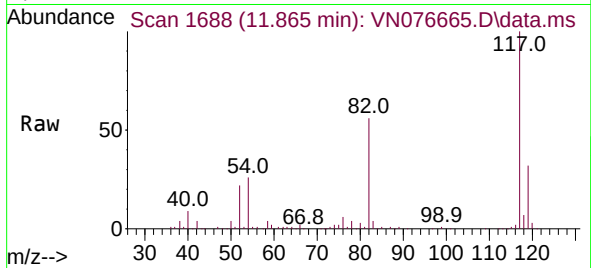




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11831
Delta R.T. -0.001 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

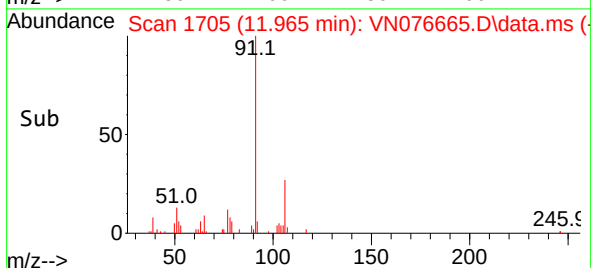
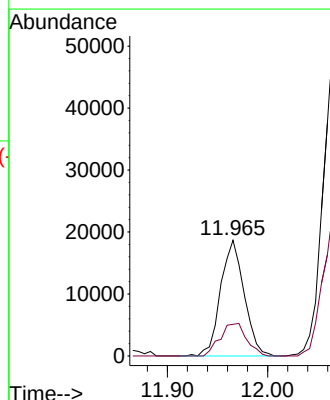
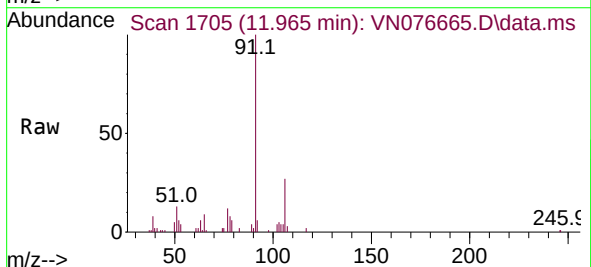
Instrument :
MSVOA_N
ClientSampleId :
1831

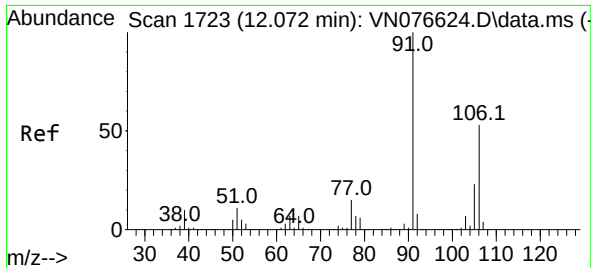
Tgt Ion:117 Resp: 494809
Ion Ratio Lower Upper
117 100
82 55.6 43.4 65.2
119 31.9 26.1 39.1



#67
Ethyl Benzene
Concen: 1.707 ug/l
RT: 11.965 min Scan# 1705
Delta R.T. -0.001 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion: 91 Resp: 30492
Ion Ratio Lower Upper
91 100
106 27.4 25.1 37.7

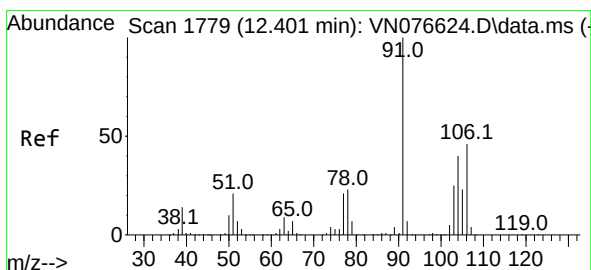
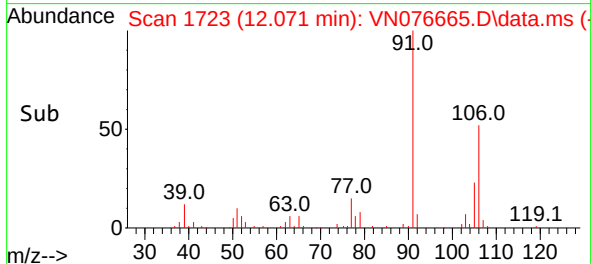
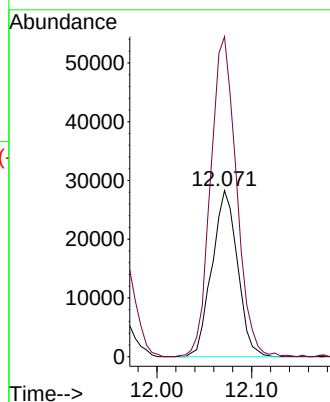
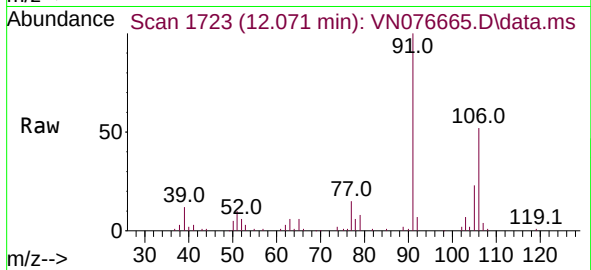




#68
m/p-Xylenes
Concen: 7.689 ug/l
RT: 12.071 min Scan# 1723
Delta R.T. -0.001 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

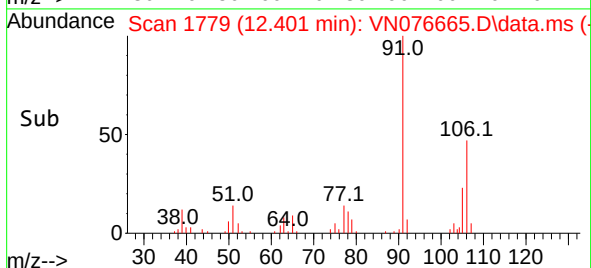
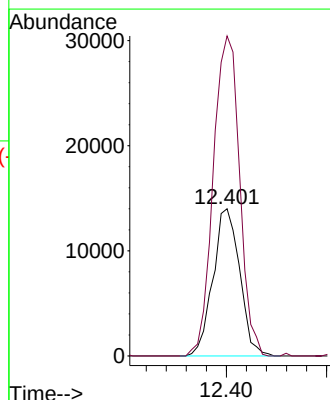
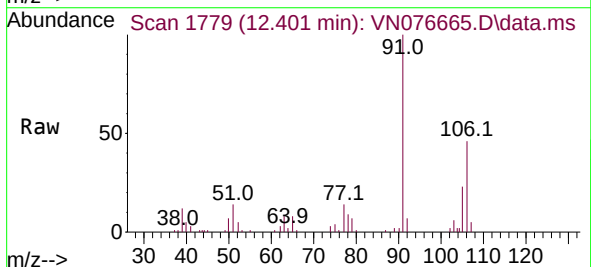
Instrument :
MSVOA_N
ClientSampleId :
1831

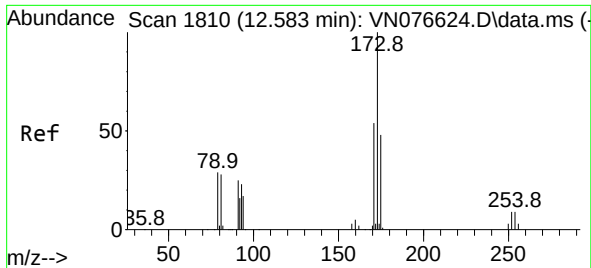
Tgt Ion:106 Resp: 52947
Ion Ratio Lower Upper
106 100
91 195.7 154.7 232.1



#69
o-Xylene
Concen: 3.854 ug/l
RT: 12.401 min Scan# 1779
Delta R.T. -0.000 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion:106 Resp: 25886
Ion Ratio Lower Upper
106 100
91 214.4 105.8 317.4

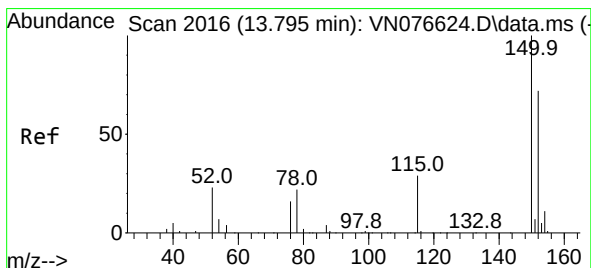
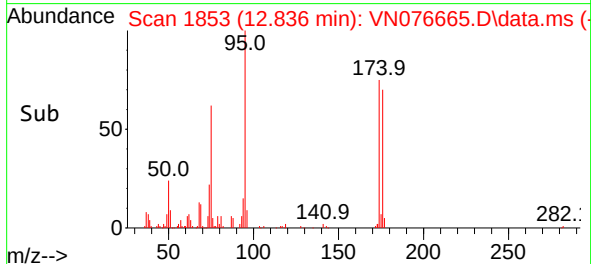
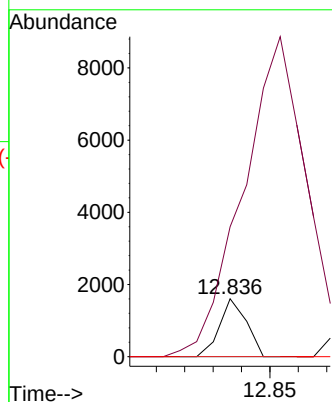
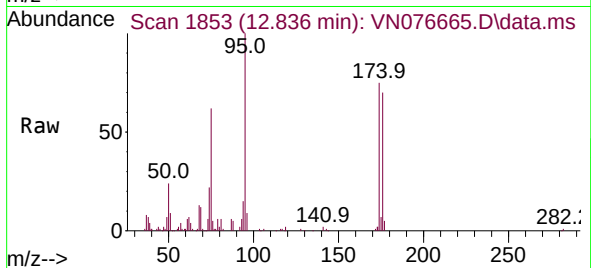




#71
Bromoform
Concen: 0.379 ug/l
RT: 12.836 min Scan# 1831
Delta R.T. 0.253 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

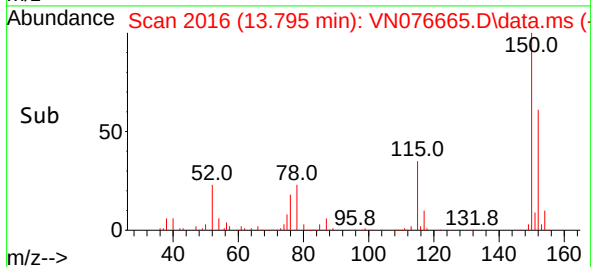
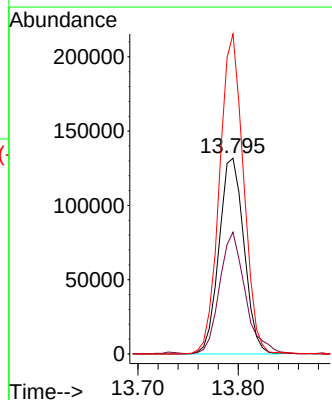
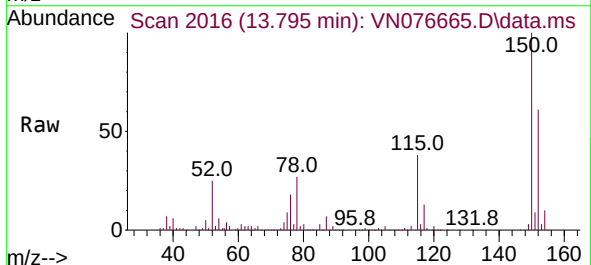
Instrument :
MSVOA_N
ClientSampleId :
1831

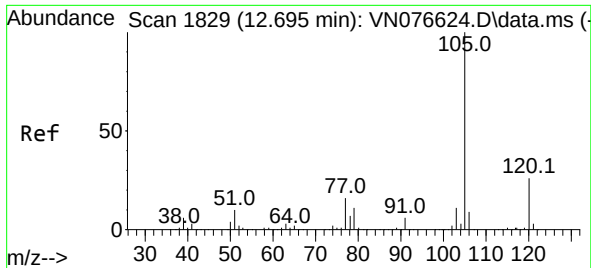
Tgt Ion:173 Resp: 1058
Ion Ratio Lower Upper
173 100
175 1106.9 24.9 74.7#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.795 min Scan# 2016
Delta R.T. -0.000 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion:152 Resp: 227253
Ion Ratio Lower Upper
152 100
115 64.1 29.3 87.9
150 157.8 0.0 349.8

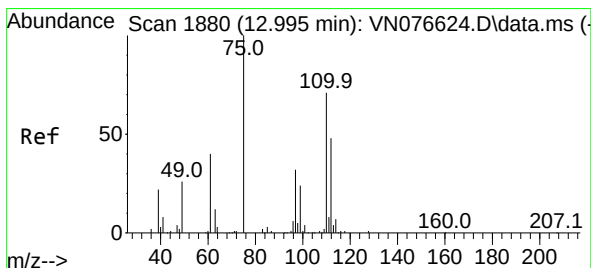
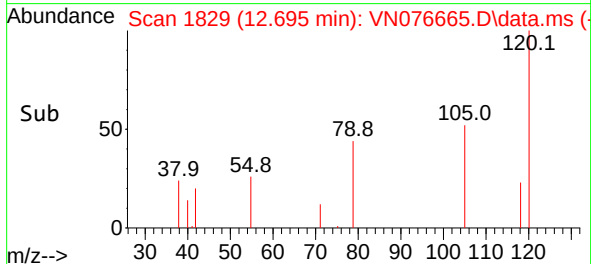
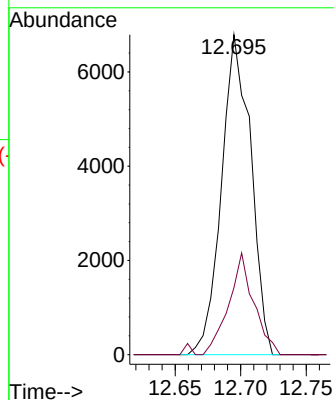
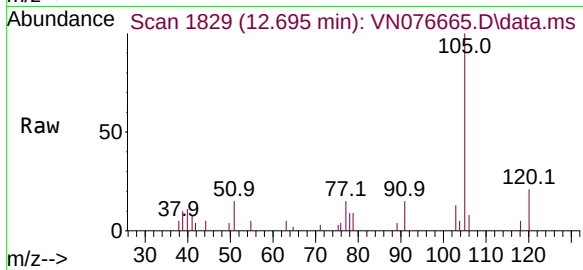




#73
Isopropylbenzene
Concen: 0.635 ug/l
RT: 12.695 min Scan# 1831
Delta R.T. -0.000 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

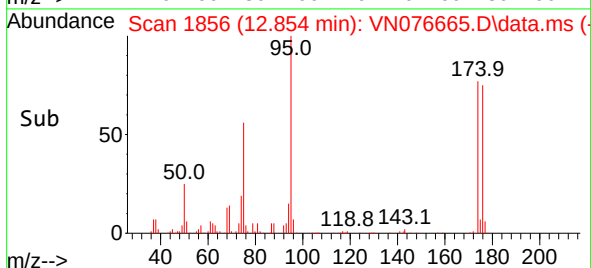
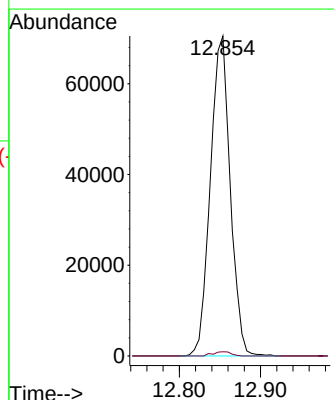
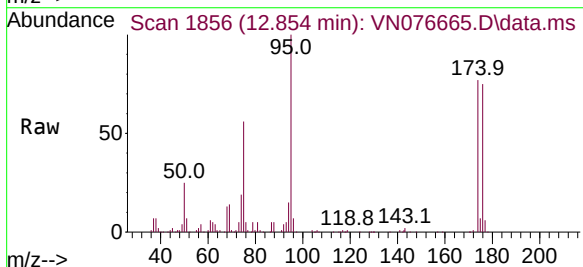
Instrument :
MSVOA_N
ClientSampleId :
1831

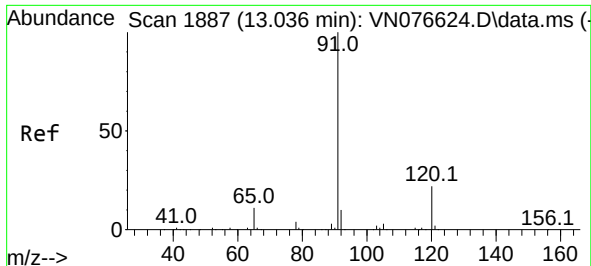
Tgt Ion:105 Resp: 10569
Ion Ratio Lower Upper
105 100
120 27.2 13.7 41.0



#76
1,2,3-Trichloropropane
Concen: 26.100 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion: 75 Resp: 119912
Ion Ratio Lower Upper
75 100
77 1.2 93.1 279.3#

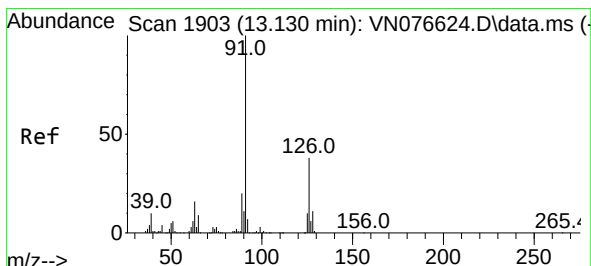
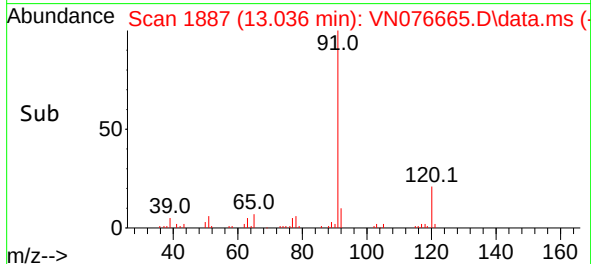
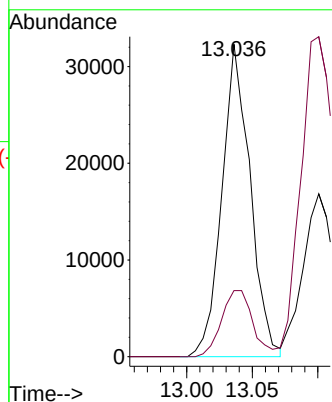
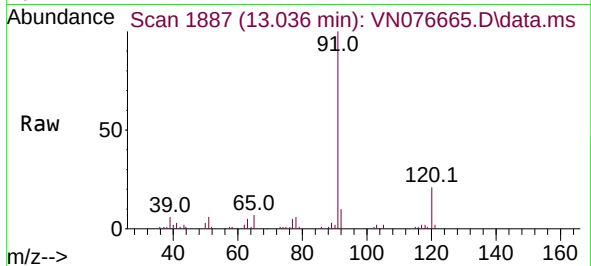




#78
n-propylbenzene
Concen: 2.469 ug/l
RT: 13.036 min Scan# 1887
Delta R.T. -0.000 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

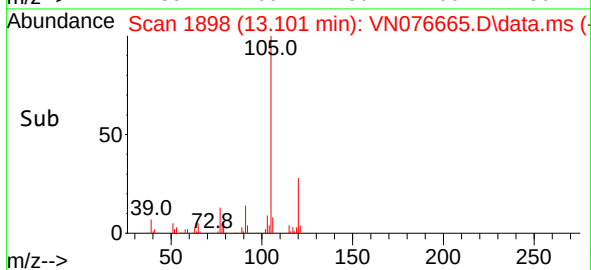
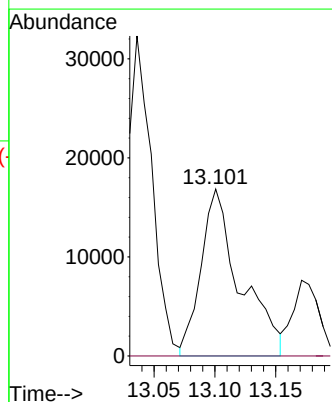
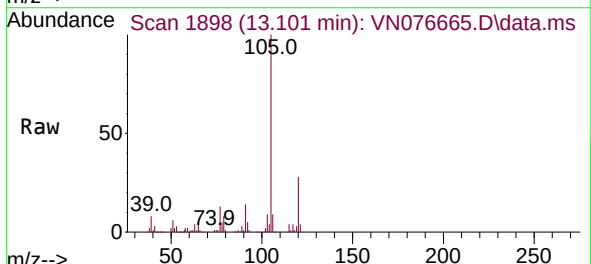
Instrument :
MSVOA_N
ClientSampleId :
1831

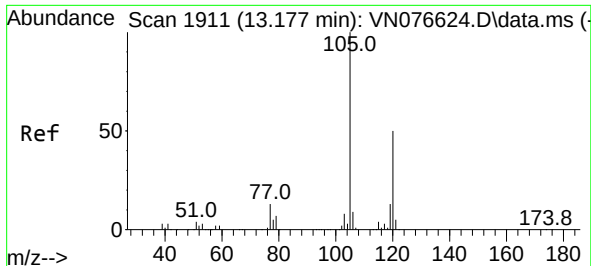
Tgt Ion: 91 Resp: 48301
Ion Ratio Lower Upper
91 100
120 23.4 11.5 34.5



#79
2-Chlorotoluene
Concen: 3.156 ug/l
RT: 13.101 min Scan# 1898
Delta R.T. -0.029 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion: 91 Resp: 37794
Ion Ratio Lower Upper
91 100
126 0.0 17.7 53.1#

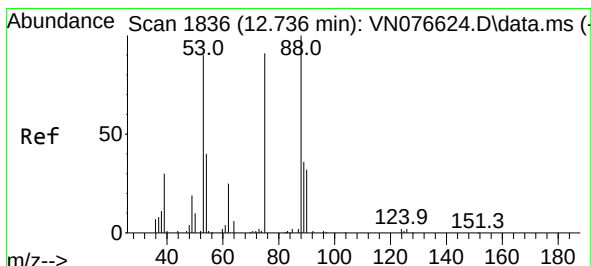
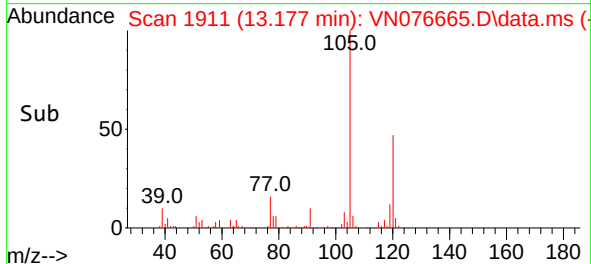
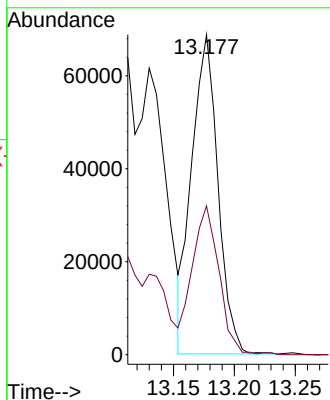
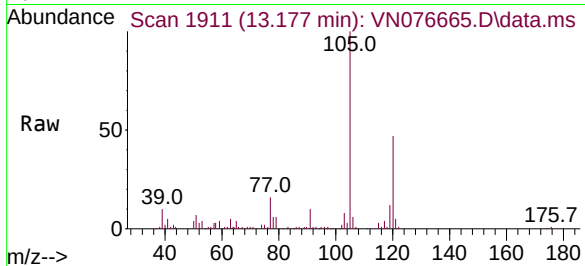




#80
1,3,5-Trimethylbenzene
Concen: 7.460 ug/l
RT: 13.177 min Scan# 1911
Delta R.T. 0.000 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

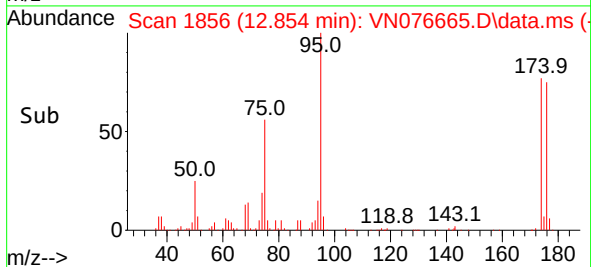
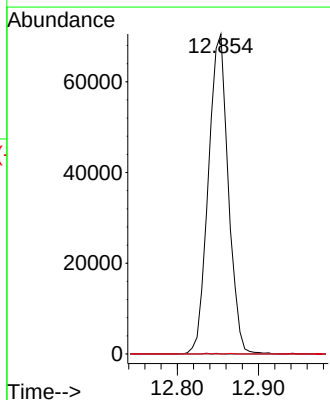
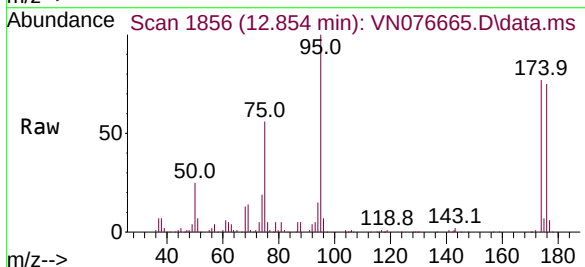
Instrument :
MSVOA_N
ClientSampleId :
1831

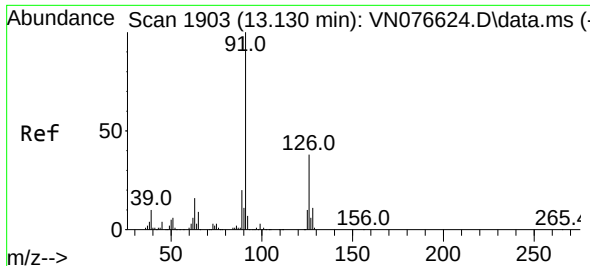
Tgt Ion:105 Resp: 102691
Ion Ratio Lower Upper
105 100
120 48.0 25.1 75.4



#81
trans-1,4-Dichloro-2-butene
Concen: 76.017 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion: 75 Resp: 119912
Ion Ratio Lower Upper
75 100
53 0.0 92.1 138.1#
89 0.0 37.5 56.3#

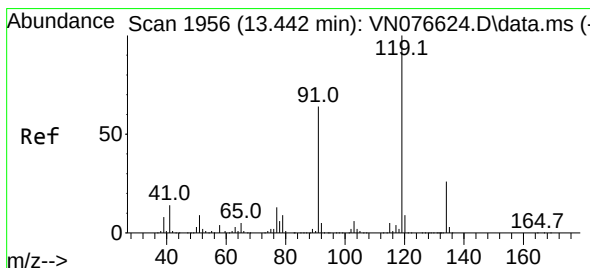
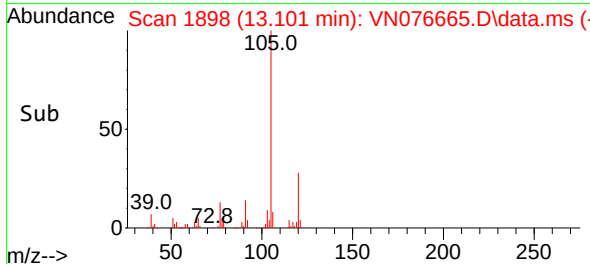
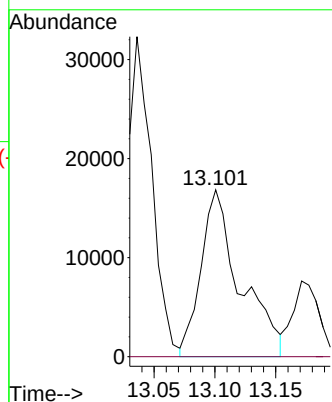
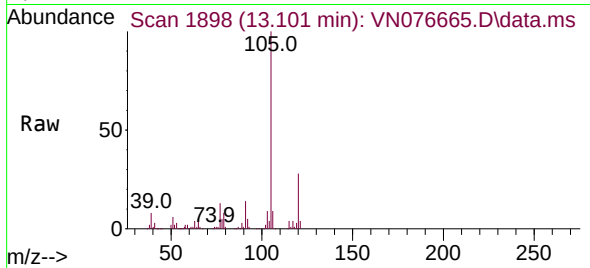




#82
4-Chlorotoluene
Concen: 3.156 ug/l
RT: 13.101 min Scan# 1898
Delta R.T. -0.029 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

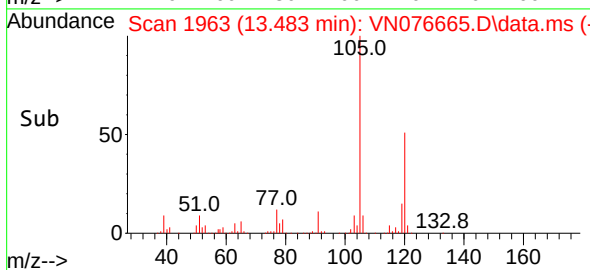
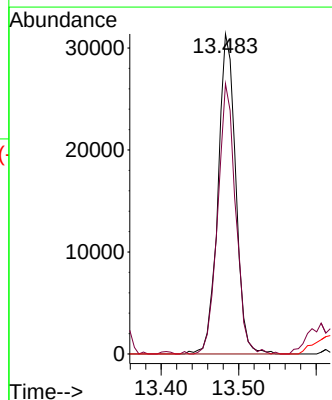
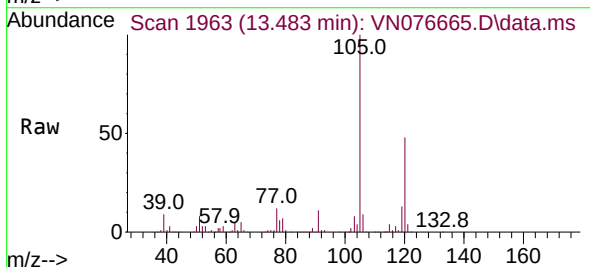
Instrument :
MSVOA_N
ClientSampleId :
1831

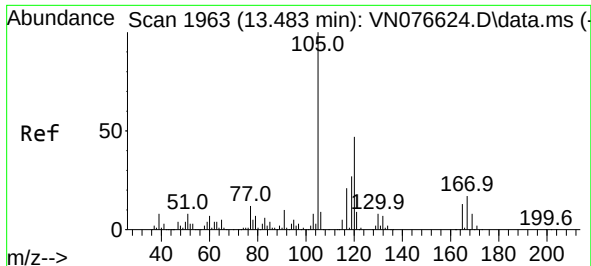
Tgt Ion: 91 Resp: 37794
Ion Ratio Lower Upper
91 100
126 0.0 17.7 53.1#



#83
tert-Butylbenzene
Concen: 4.001 ug/l
RT: 13.483 min Scan# 1963
Delta R.T. 0.041 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion: 119 Resp: 49819
Ion Ratio Lower Upper
119 100
91 85.6 32.0 96.2
134 0.0 13.8 41.4#

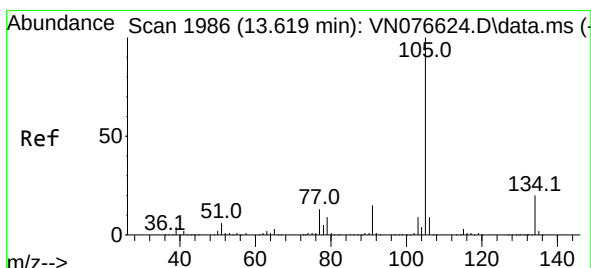
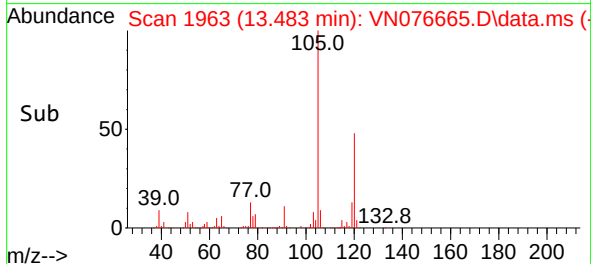
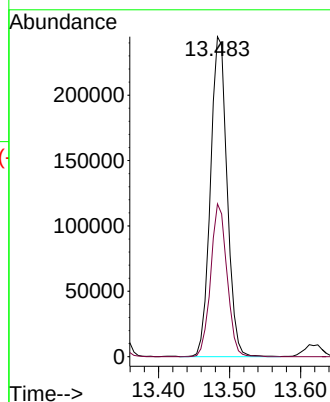
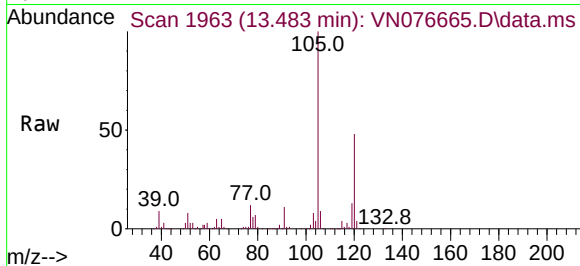




#84
1,2,4-Trimethylbenzene
Concen: 29.023 ug/l
RT: 13.483 min Scan# 1963
Delta R.T. -0.000 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

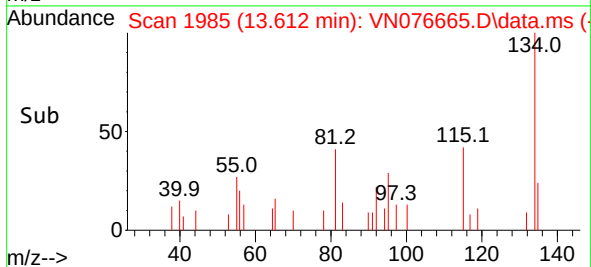
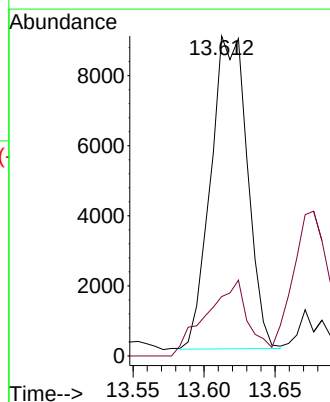
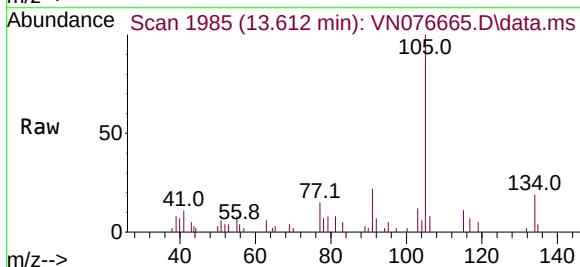
Instrument :
MSVOA_N
ClientSampleId :
1831

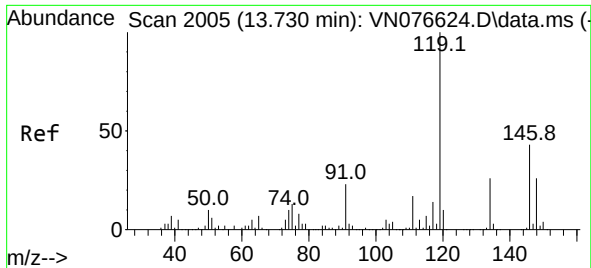
Tgt Ion:105 Resp: 398180
Ion Ratio Lower Upper
105 100
120 46.7 23.0 69.0



#85
sec-Butylbenzene
Concen: 0.921 ug/l
RT: 13.612 min Scan# 1985
Delta R.T. -0.007 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion:105 Resp: 16012
Ion Ratio Lower Upper
105 100
134 27.6 10.5 31.5

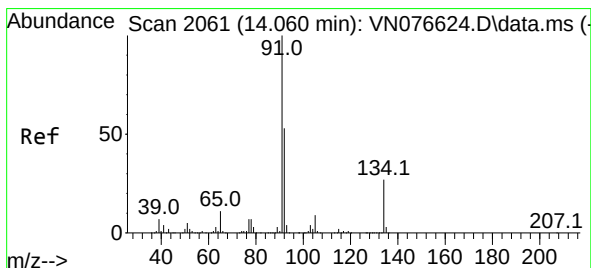
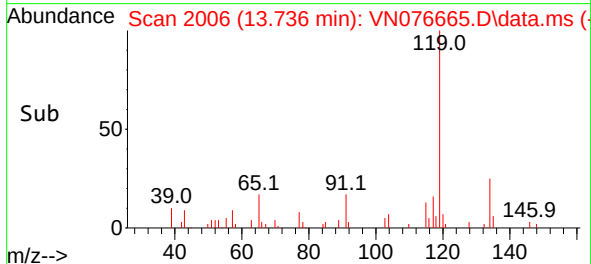
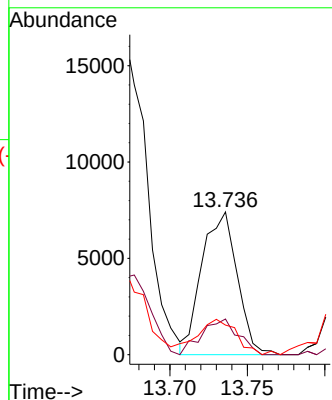
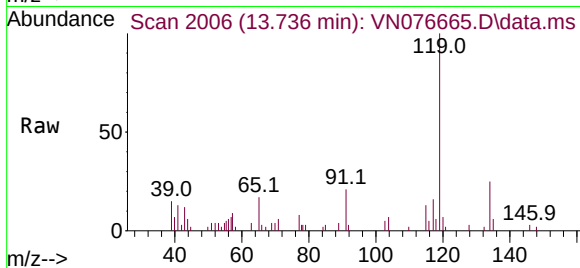




#86
p-Isopropyltoluene
Concen: 0.846 ug/l
RT: 13.736 min Scan# 2005
Delta R.T. 0.006 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

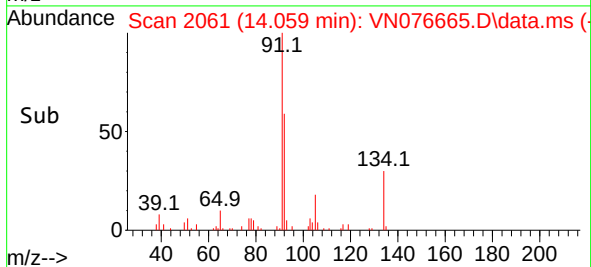
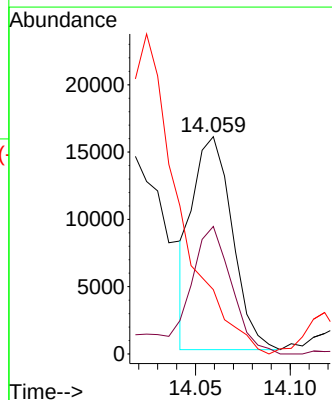
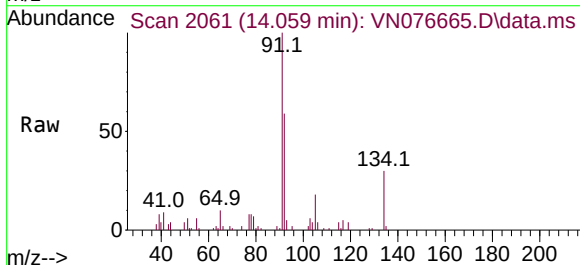
Instrument :
MSVOA_N
ClientSampleId :
1831

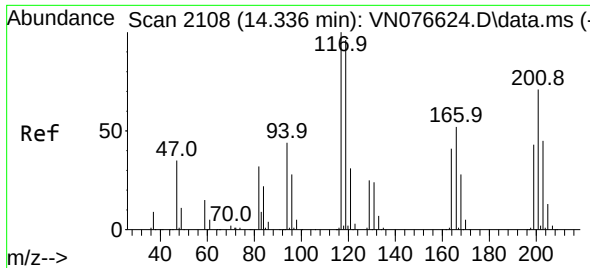
Tgt Ion:119 Resp: 11751
Ion Ratio Lower Upper
119 100
134 25.9 13.4 40.1
91 28.5 11.7 35.0



#89
n-Butylbenzene
Concen: 1.906 ug/l
RT: 14.059 min Scan# 2061
Delta R.T. -0.001 min
Lab File: VN076665.D
Acq: 14 Feb 2023 17:00

Tgt Ion: 91 Resp: 23012
Ion Ratio Lower Upper
91 100
92 69.2 26.4 79.0
134 0.0 13.2 39.5#

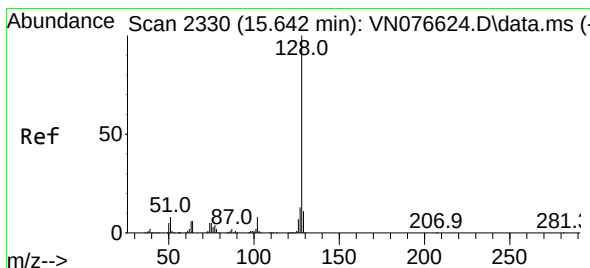
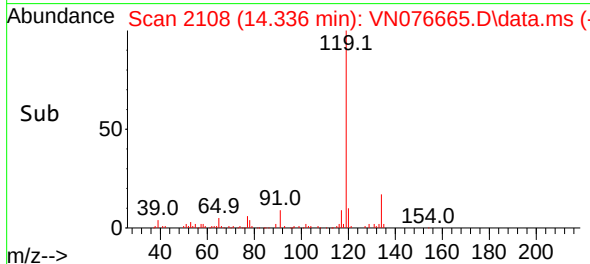
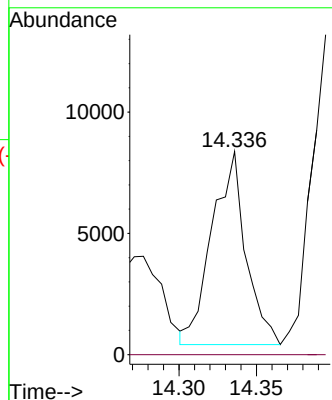
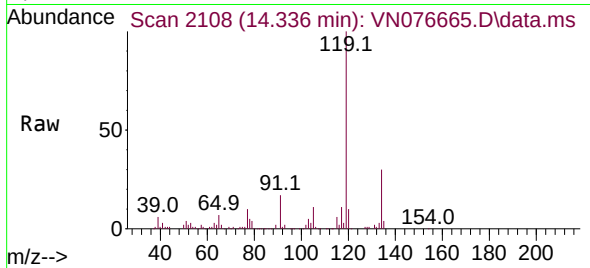




#90
 Hexachloroethane
 Concen: 4.149 ug/l
 RT: 14.336 min Scan# 2108
 Delta R.T. -0.000 min
 Lab File: VN076665.D
 Acq: 14 Feb 2023 17:00

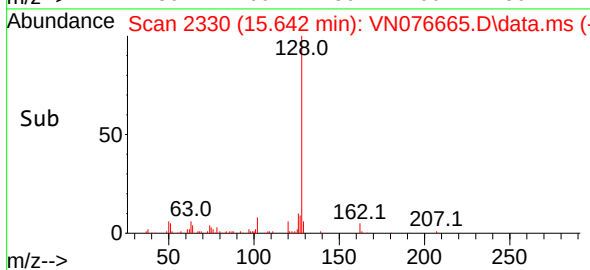
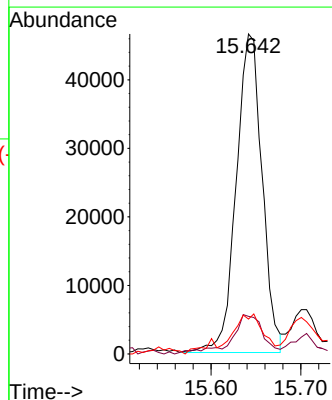
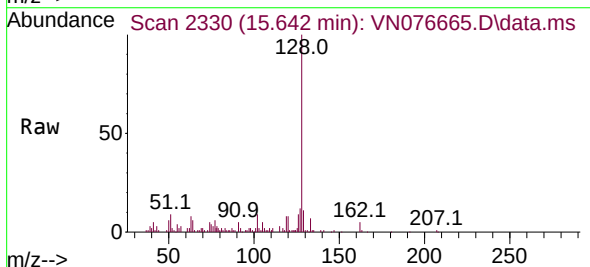
Instrument :
 MSVOA_N
 ClientSampleId :
 1831

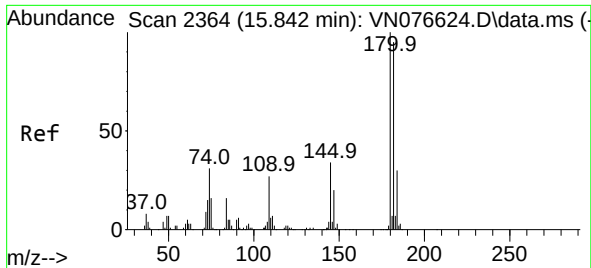
Tgt Ion:117 Resp: 12060
 Ion Ratio Lower Upper
 117 100
 201 0.0 35.5 106.7#



#95
 Naphthalene
 Concen: 7.638 ug/l
 RT: 15.642 min Scan# 2330
 Delta R.T. -0.000 min
 Lab File: VN076665.D
 Acq: 14 Feb 2023 17:00

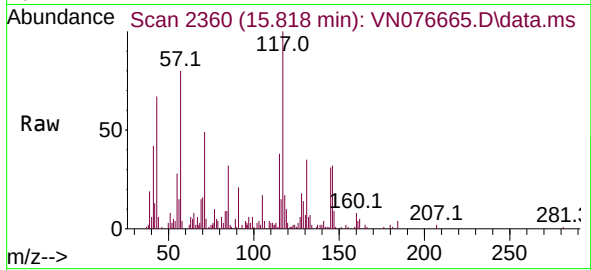
Tgt Ion:128 Resp: 93112
 Ion Ratio Lower Upper
 128 100
 127 15.0 10.6 16.0
 129 12.7 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 0.214 ug/l
 RT: 15.818 min Scan# 21
 Delta R.T. -0.024 min
 Lab File: VN076665.D
 Acq: 14 Feb 2023 17:00

Instrument :
 MSVOA_N
 ClientSampleId :
 1831



Tgt Ion:180 Resp: 833
 Ion Ratio Lower Upper
 180 100
 182 43.2 46.7 140.1#
 145 402.5 16.0 47.9#

