

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102723\
 Data File : VY016115.D
 Acq On : 27 Oct 2023 19:40
 Operator : SY/MD
 Sample : 05107-07
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 1077

Quant Time: Oct 30 06:13:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y102623S.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 27 04:12:29 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.795	168	185908	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	298806	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	253383	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	99255	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	104902	56.747	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 113.500%	
35) Dibromofluoromethane	7.722	113	93836	49.745	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 99.480%	
50) Toluene-d8	10.185	98	374161	53.548	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 107.100%	
62) 4-Bromofluorobenzene	12.483	95	115191	48.060	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 96.120%	

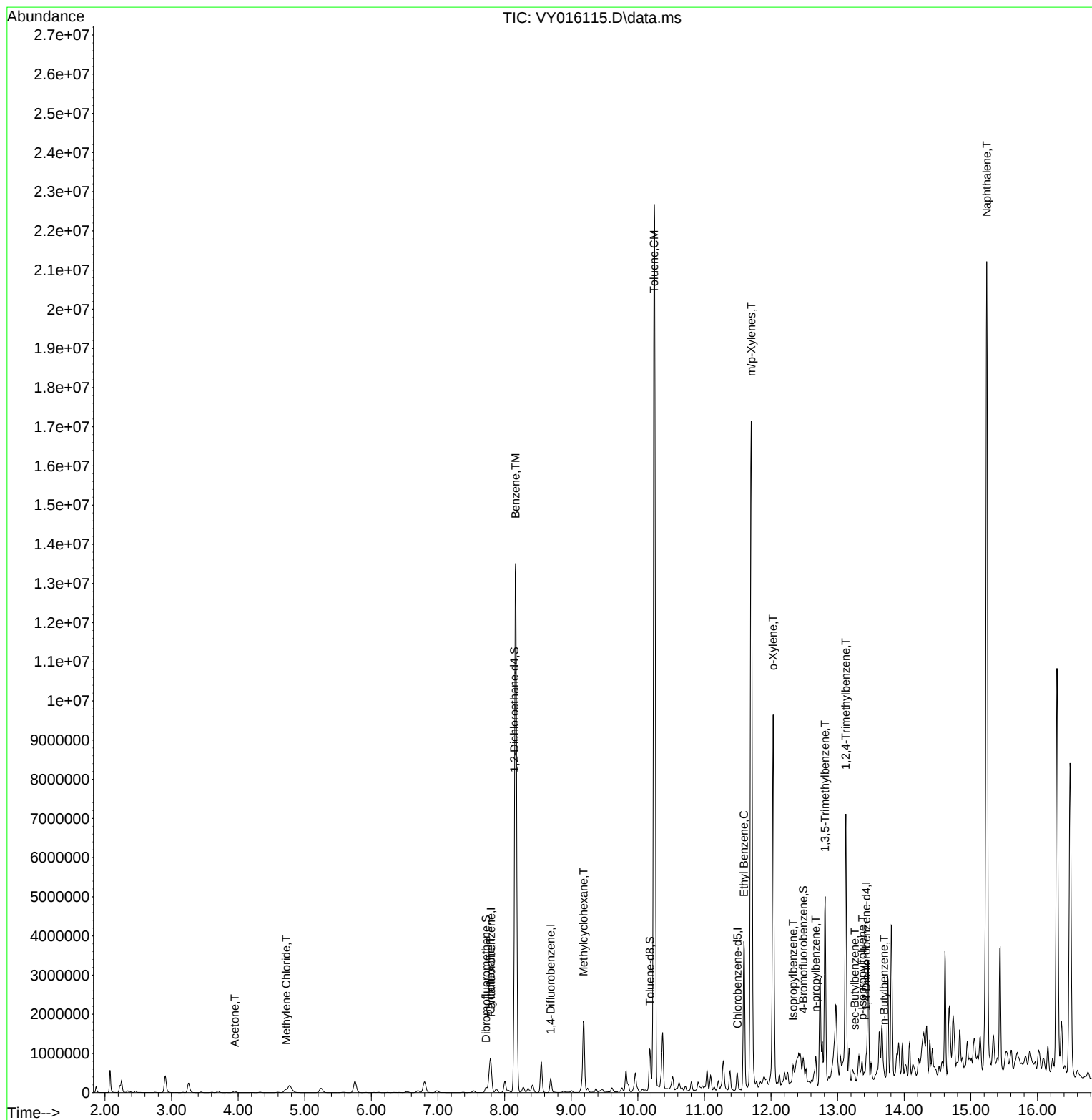
Target Compounds						Qvalue
16) Acetone	3.948	43	36658	73.161	ug/l #	88
20) Methylene Chloride	4.722	84	31573	11.718	ug/l	87
31) Cyclohexane	7.789	56	361502	124.303	ug/l	90
39) Methylcyclohexane	9.185	83	799944	249.725	ug/l	93
40) Benzene	8.167	78	13589138	1825.393	ug/l	94
52) Toluene	10.246	92	11068695	2315.413	ug/l	78
67) Ethyl Benzene	11.593	91	2655301	300.224	ug/l	98
68) m/p-Xylenes	11.703	106	5233997	1529.203	ug/l	89
69) o-Xylene	12.032	106	2375905	725.085	ug/l	94
73) Isopropylbenzene	12.331	105	269837	38.630	ug/l	100
78) n-propylbenzene	12.672	91	519306	61.400	ug/l	99
80) 1,3,5-Trimethylbenzene	12.812	105	1620976	279.504	ug/l	97
84) 1,2,4-Trimethylbenzene	13.123	105	3496962	610.531	ug/l	97
85) sec-Butylbenzene	13.257	105	109128	14.213	ug/l #	52
86) p-Isopropyltoluene	13.373	119	145593	22.725	ug/l	97
89) n-Butylbenzene	13.696	91	78610	13.153	ug/l #	58
95) Naphthalene	15.239	128	16287897	4631.818	ug/l #	93

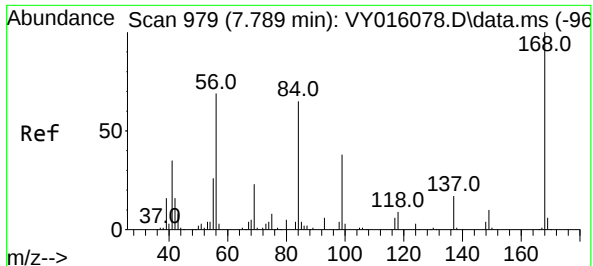
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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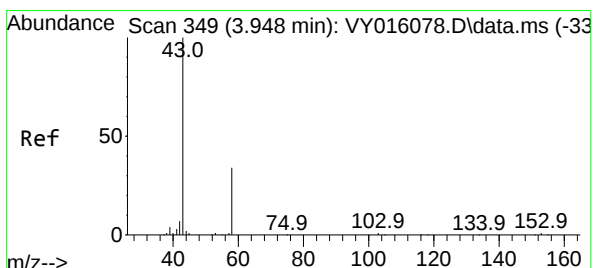
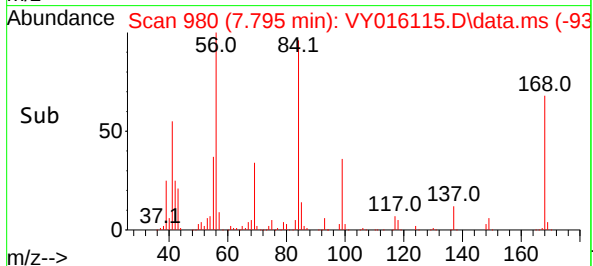
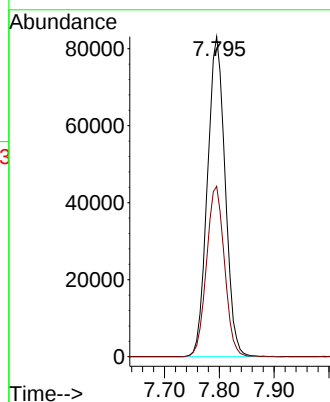
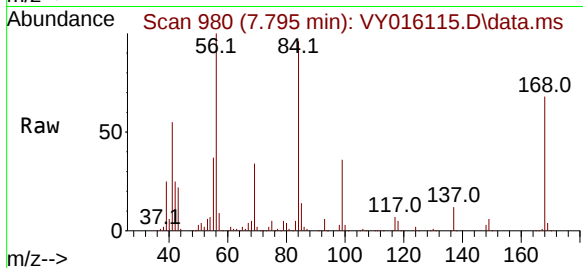




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

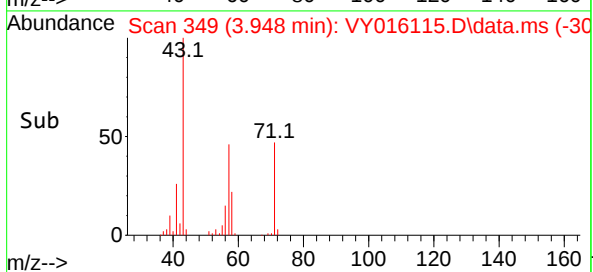
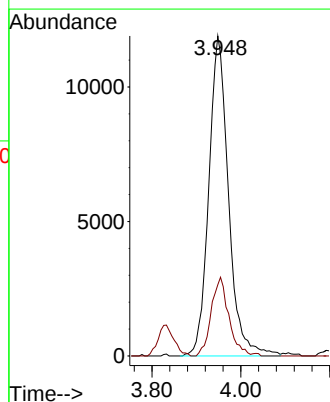
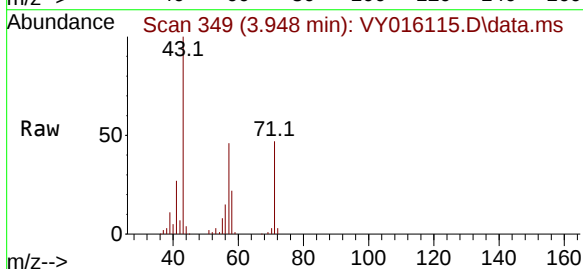
Instrument :
MSVOA_Y
ClientSampleId :
1077

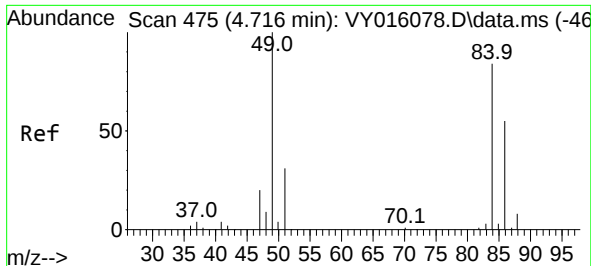
Tgt Ion:168 Resp: 185908
Ion Ratio Lower Upper
168 100
99 53.3 43.4 65.0



#16
Acetone
Concen: 73.161 ug/l
RT: 3.948 min Scan# 349
Delta R.T. -0.000 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

Tgt Ion: 43 Resp: 36658
Ion Ratio Lower Upper
43 100
58 22.2 22.7 34.1#

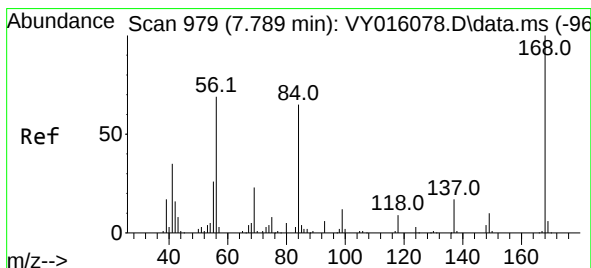
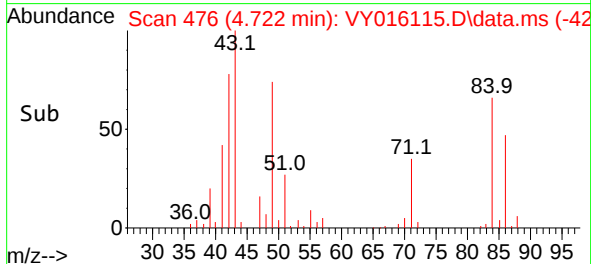
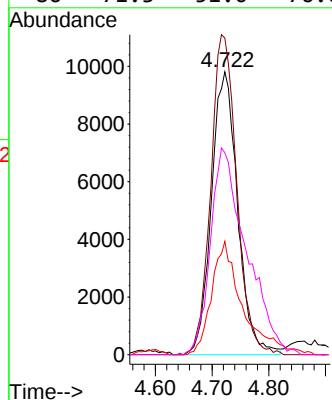
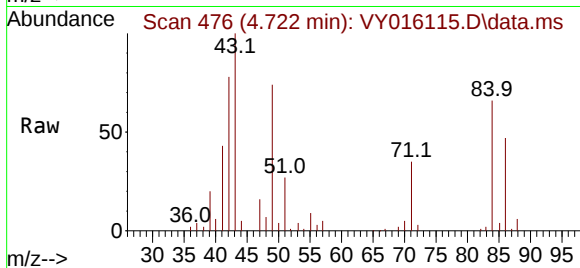




#20
Methylene Chloride
Concen: 11.718 ug/l
RT: 4.722 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

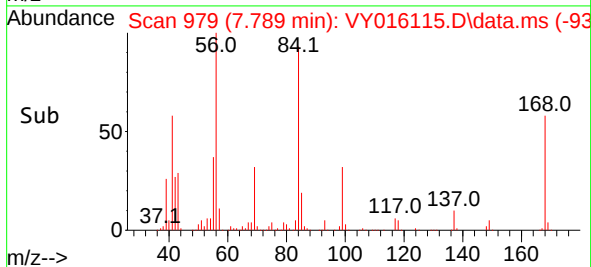
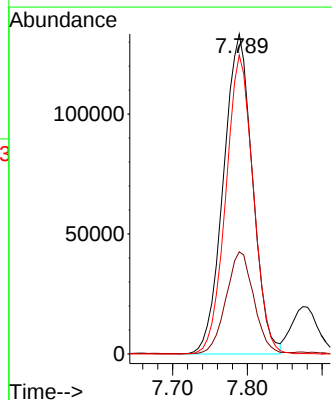
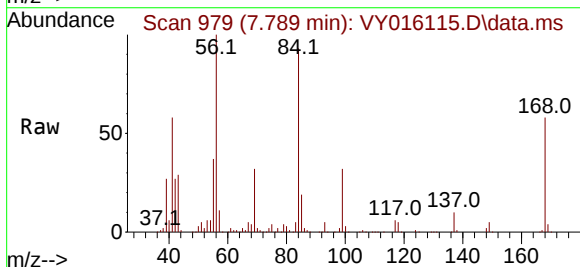
Instrument :
MSVOA_Y
ClientSampleId :
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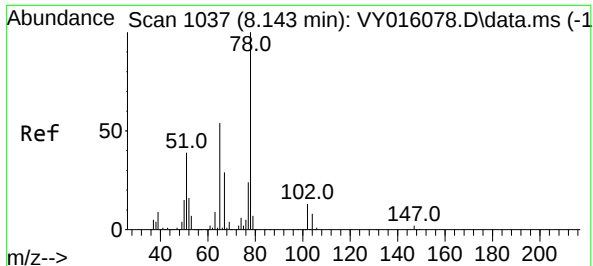
Tgt Ion:	84	Resp:	31573
Ion	Ratio	Lower	Upper
84	100		
49	111.9	106.9	160.3
51	39.5	33.2	49.8
86	71.3	51.0	76.6



#31
Cyclohexane
Concen: 124.303 ug/l
RT: 7.789 min Scan# 979
Delta R.T. 0.000 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

Tgt Ion:	56	Resp:	361502
Ion	Ratio	Lower	Upper
56	100		
69	31.8	27.8	41.6
84	93.4	66.4	99.6

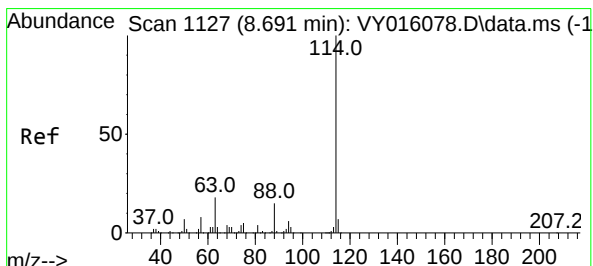
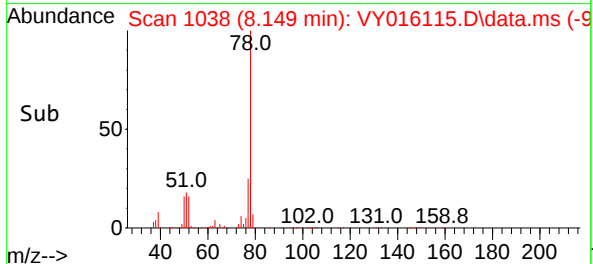
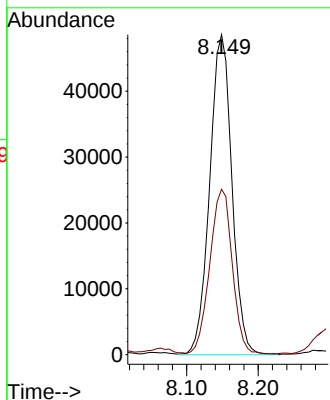
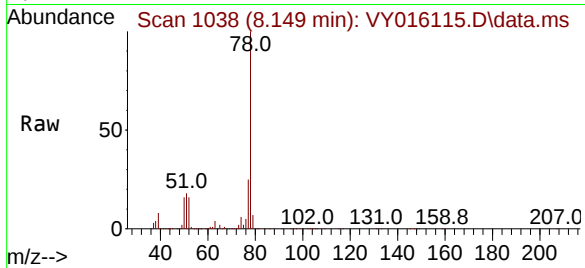




#33
1,2-Dichloroethane-d4
Concen: 56.747 ug/l
RT: 8.149 min Scan# 1037
Delta R.T. 0.006 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

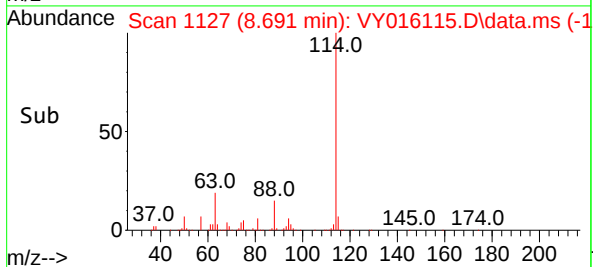
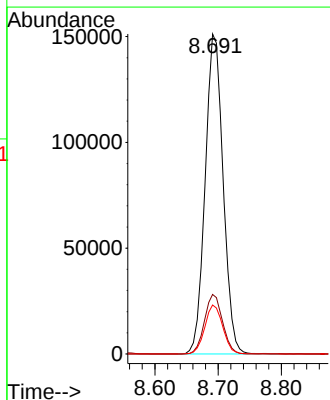
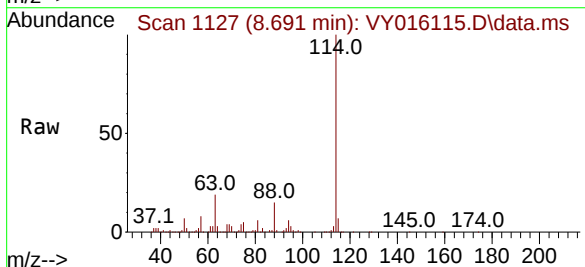
Instrument :
MSVOA_Y
ClientSampleId :
1077

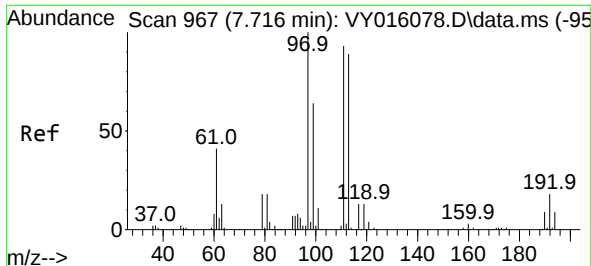
Tgt Ion: 65 Resp: 104902
Ion Ratio Lower Upper
65 100
67 51.9 0.0 101.8



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.691 min Scan# 1127
Delta R.T. -0.000 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

Tgt Ion: 114 Resp: 298806
Ion Ratio Lower Upper
114 100
63 18.6 0.0 42.4
88 15.3 0.0 30.6

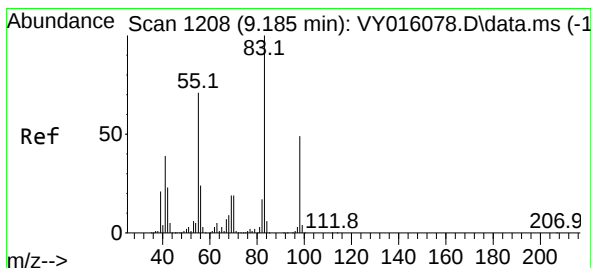
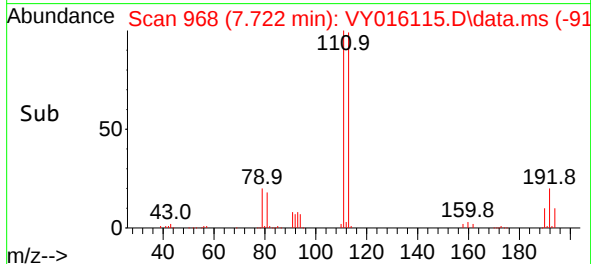
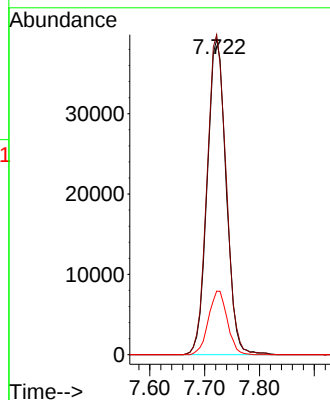
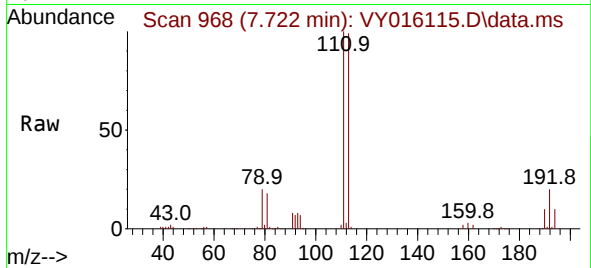




#35
Dibromofluoromethane
Concen: 49.745 ug/l
RT: 7.722 min Scan# 910
Delta R.T. 0.006 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

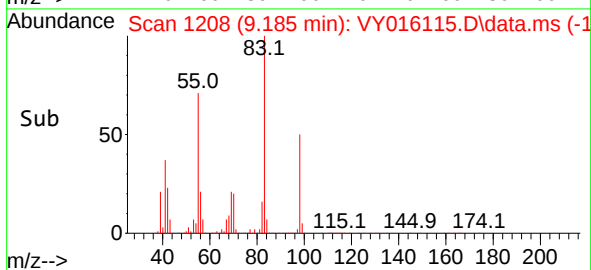
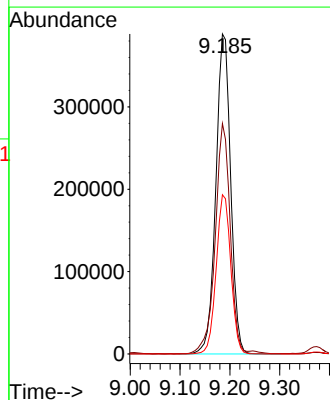
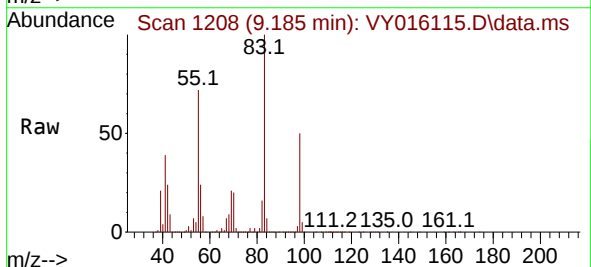
Instrument :
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ClientSampleId :
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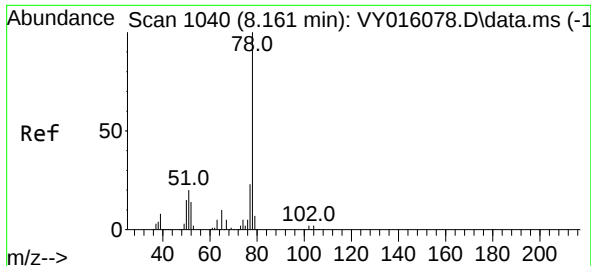
Tgt Ion:113 Resp: 93836
Ion Ratio Lower Upper
113 100
111 102.2 81.3 121.9
192 20.0 16.9 25.3



#39
Methylcyclohexane
Concen: 249.725 ug/l
RT: 9.185 min Scan# 1208
Delta R.T. -0.000 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

Tgt Ion: 83 Resp: 799944
Ion Ratio Lower Upper
83 100
55 71.9 63.0 94.4
98 49.8 37.4 56.2

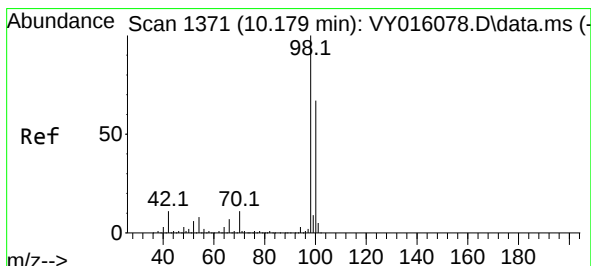
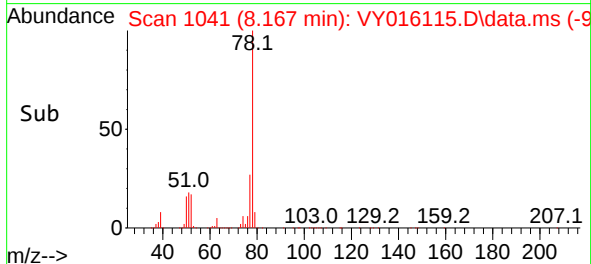
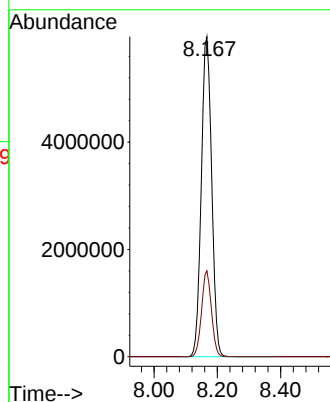
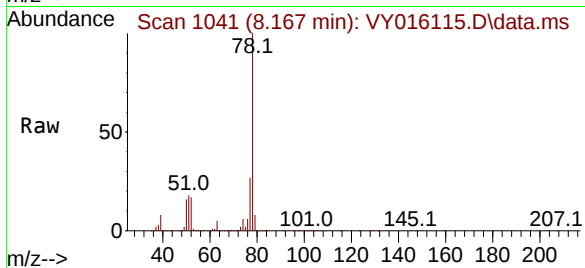




#40
Benzene
Concen: 1825.393 ug/l
RT: 8.167 min Scan# 1077
Delta R.T. 0.006 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

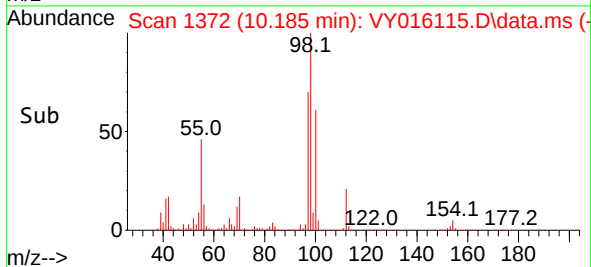
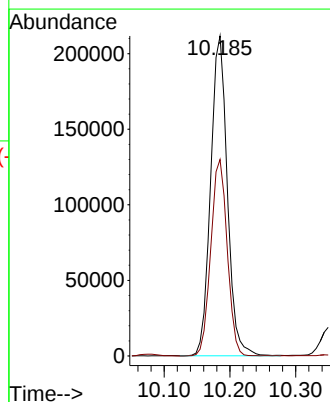
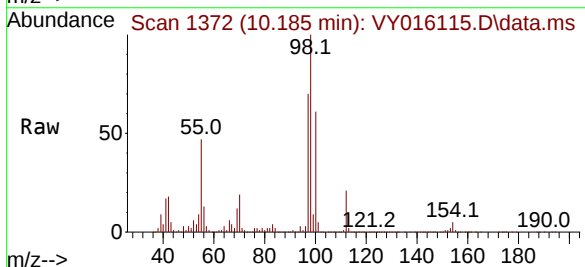
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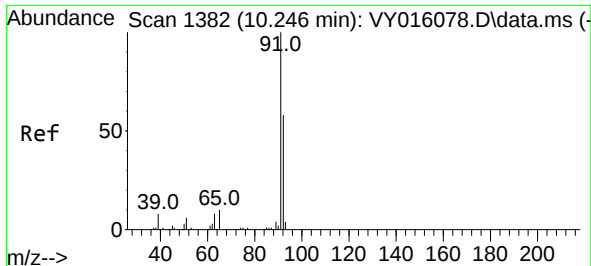
Tgt Ion: 78 Resp:13589138
Ion Ratio Lower Upper
78 100
77 26.9 19.0 28.6



#50
Toluene-d8
Concen: 53.548 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.006 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

Tgt Ion: 98 Resp: 374161
Ion Ratio Lower Upper
98 100
100 60.3 50.1 75.1

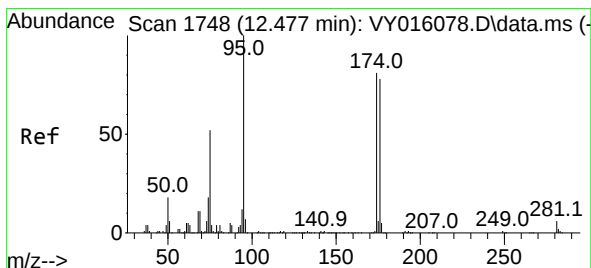
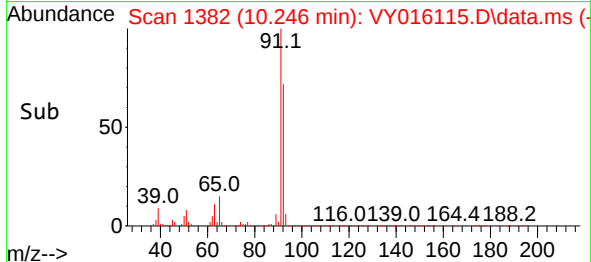
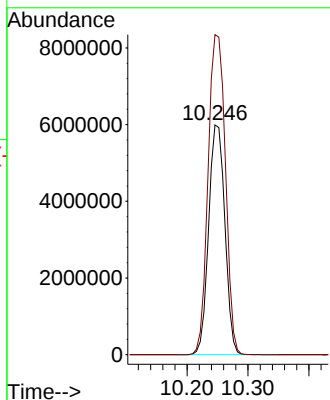
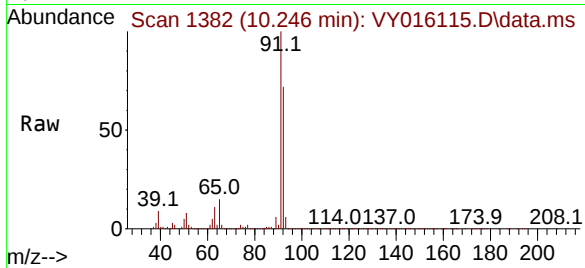




#52
Toluene
Concen: 2315.413 ug/l
RT: 10.246 min Scan# 11077
Delta R.T. -0.000 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

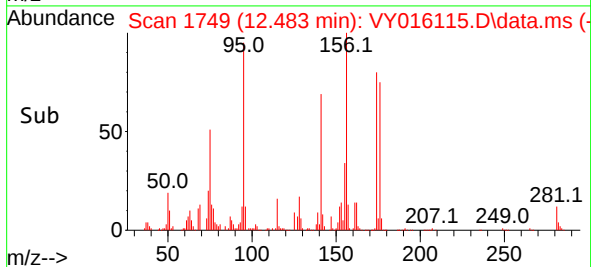
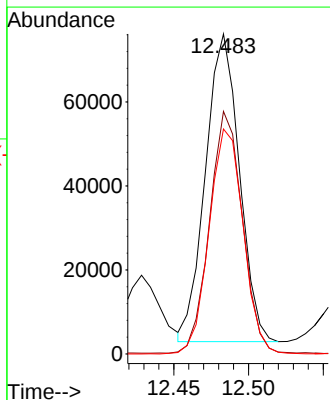
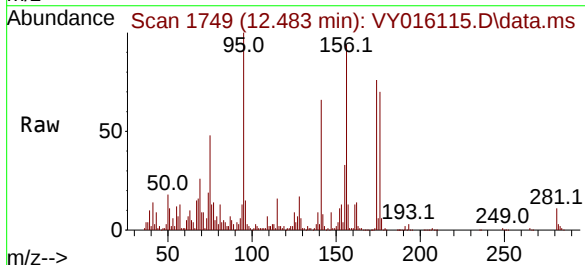
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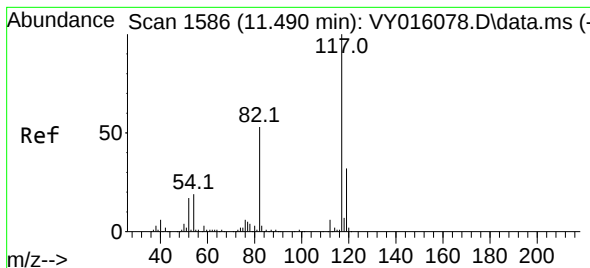
Tgt Ion: 92 Resp:11068695
Ion Ratio Lower Upper
92 100
91 148.9 143.8 215.6



#62
4-Bromofluorobenzene
Concen: 48.060 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

Tgt Ion: 95 Resp: 115191
Ion Ratio Lower Upper
95 100
174 76.4 0.0 178.2
176 73.7 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.496 min Scan# 1177

Delta R.T. 0.006 min

Lab File: VY016115.D

Acq: 27 Oct 2023 19:40

Instrument :

MSVOA_Y

ClientSampleId :

1077

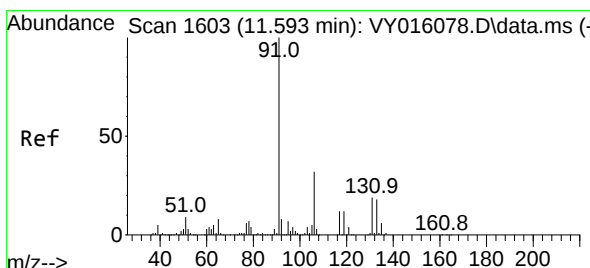
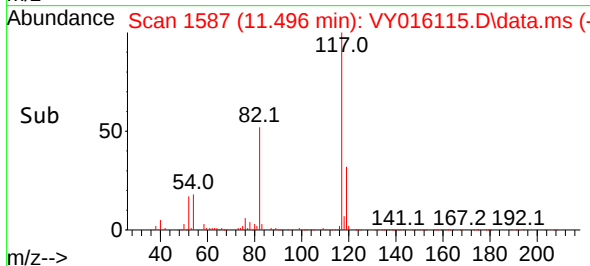
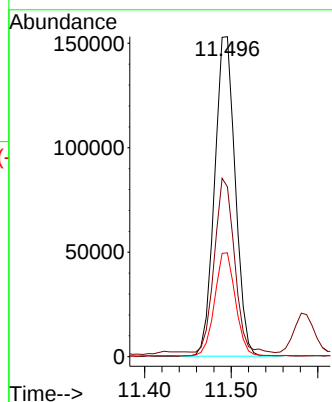
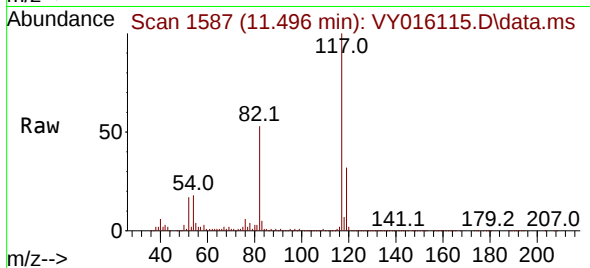
Tgt Ion:117 Resp: 253383

Ion Ratio Lower Upper

117 100

82 51.7 43.4 65.0

119 32.2 26.3 39.5



#67

Ethyl Benzene

Concen: 300.224 ug/l

RT: 11.593 min Scan# 1603

Delta R.T. -0.000 min

Lab File: VY016115.D

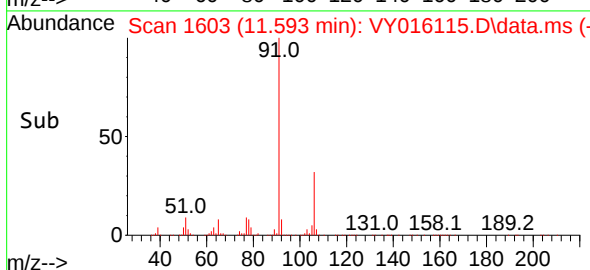
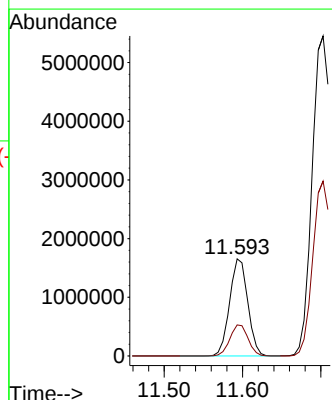
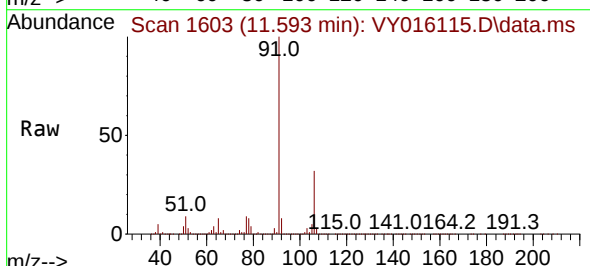
Acq: 27 Oct 2023 19:40

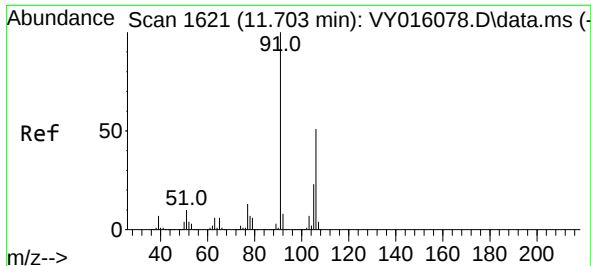
Tgt Ion: 91 Resp: 2655301

Ion Ratio Lower Upper

91 100

106 31.9 24.6 36.8

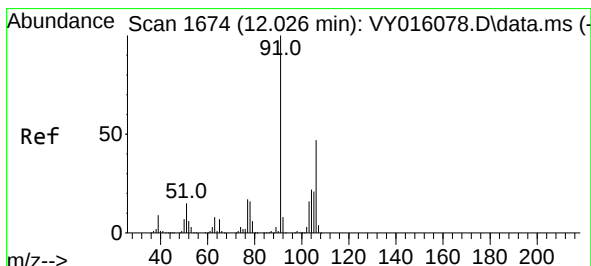
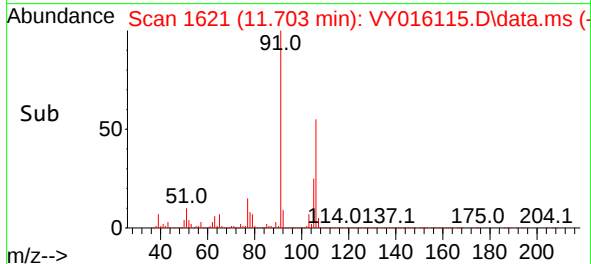
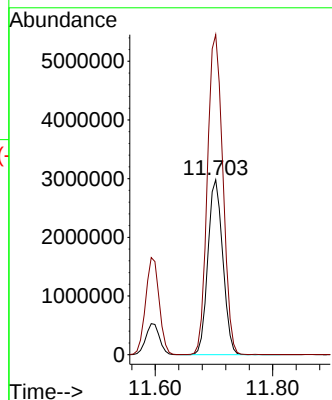
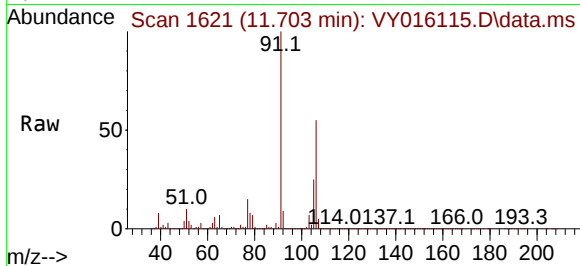




#68
m/p-Xylenes
Concen: 1529.203 ug/l
RT: 11.703 min Scan# 11077
Delta R.T. 0.000 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

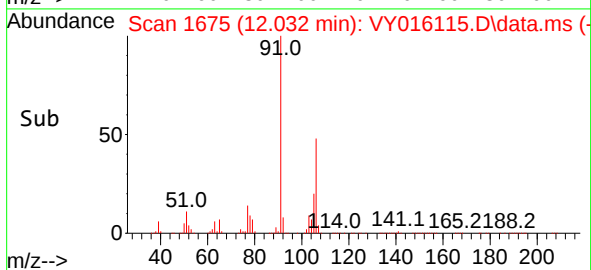
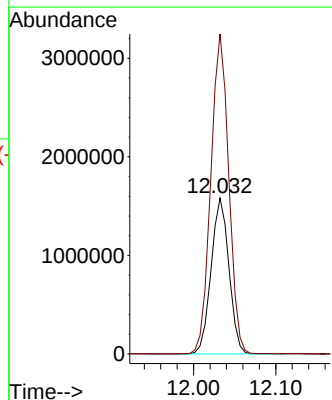
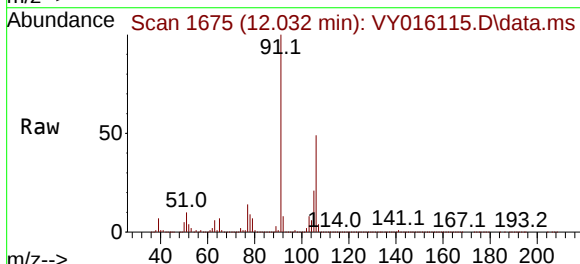
Instrument :
MSVOA_Y
ClientSampleId :
1077

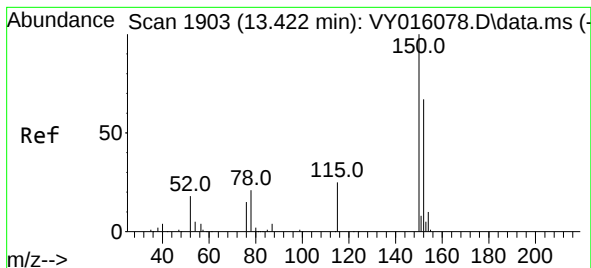
Tgt Ion:106 Resp: 5233997
Ion Ratio Lower Upper
106 100
91 189.9 166.1 249.1



#69
o-Xylene
Concen: 725.085 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

Tgt Ion:106 Resp: 2375905
Ion Ratio Lower Upper
106 100
91 207.0 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.006 min

Lab File: VY016115.D

Acq: 27 Oct 2023 19:40

Instrument :

MSVOA_Y

ClientSampleId :

1077

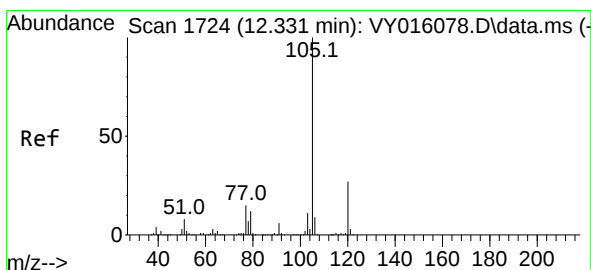
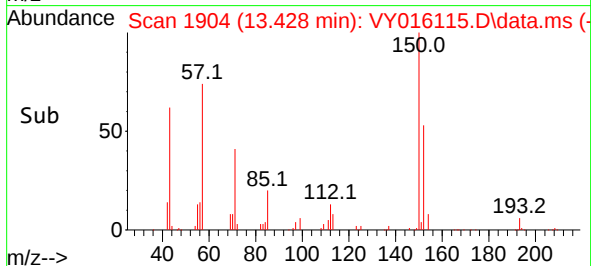
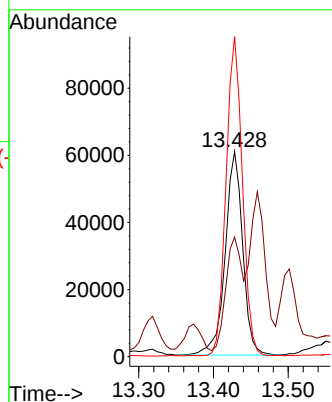
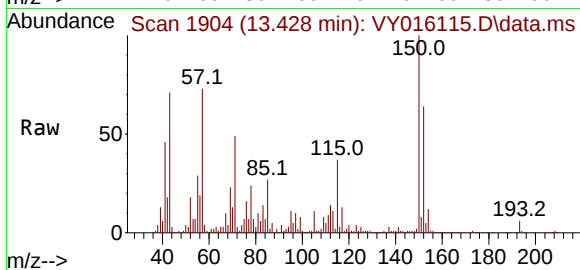
Tgt Ion:152 Resp: 99255

Ion Ratio Lower Upper

152 100

115 51.6 28.8 86.5

150 145.5 0.0 348.8



#73

Isopropylbenzene

Concen: 38.630 ug/l

RT: 12.331 min Scan# 1724

Delta R.T. 0.000 min

Lab File: VY016115.D

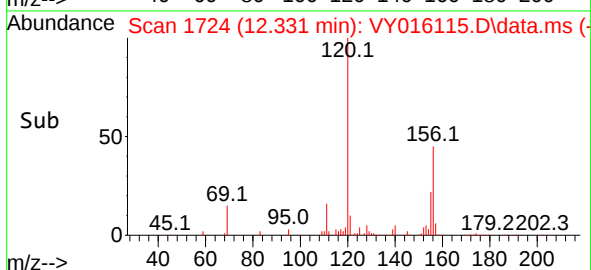
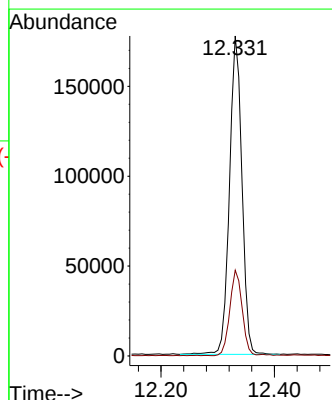
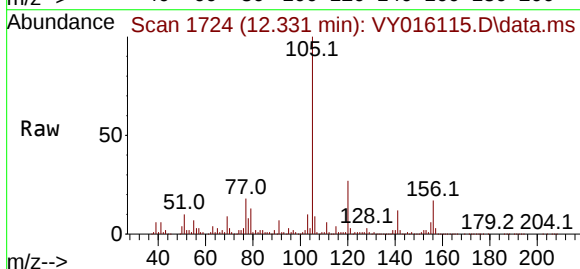
Acq: 27 Oct 2023 19:40

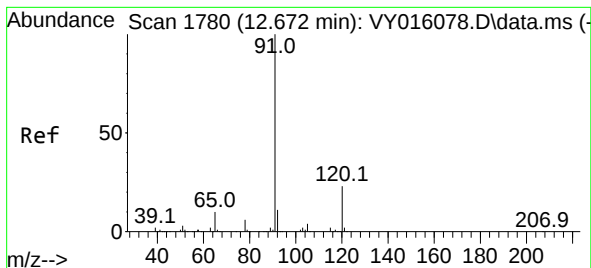
Tgt Ion:105 Resp: 269837

Ion Ratio Lower Upper

105 100

120 26.5 13.3 39.9





#78

n-propylbenzene

Concen: 61.400 ug/l

RT: 12.672 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY016115.D

Acq: 27 Oct 2023 19:40

Instrument :

MSVOA_Y

ClientSampleId :

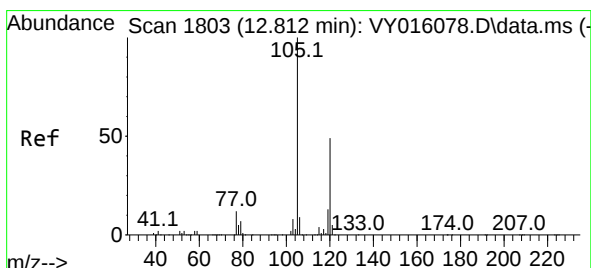
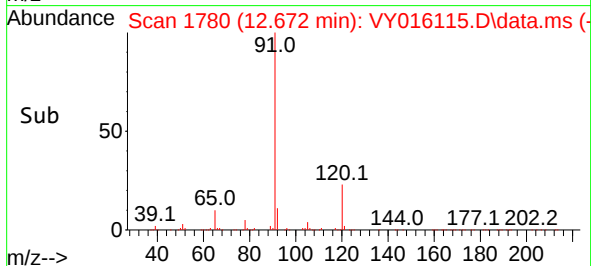
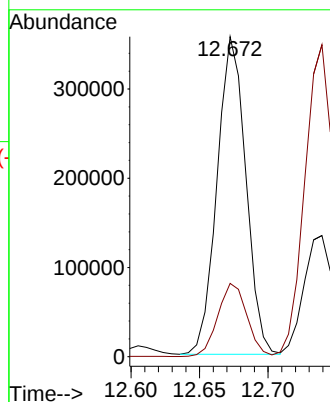
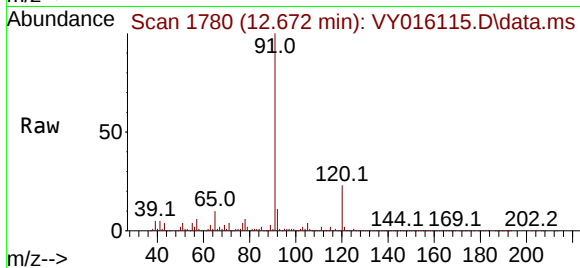
1077

Tgt Ion: 91 Resp: 519306

Ion Ratio Lower Upper

91 100

120 23.3 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 279.504 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. -0.000 min

Lab File: VY016115.D

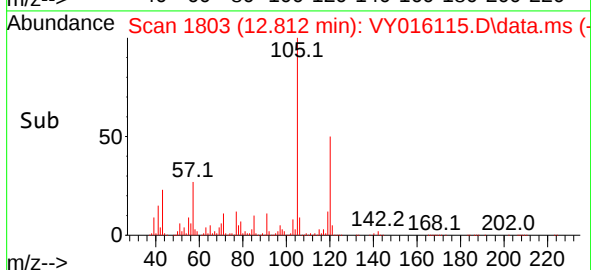
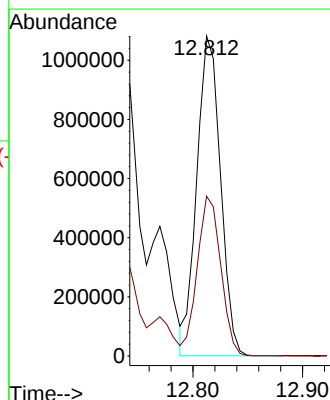
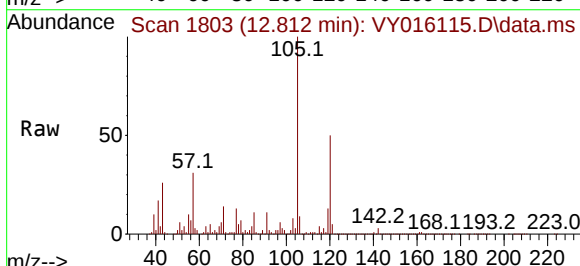
Acq: 27 Oct 2023 19:40

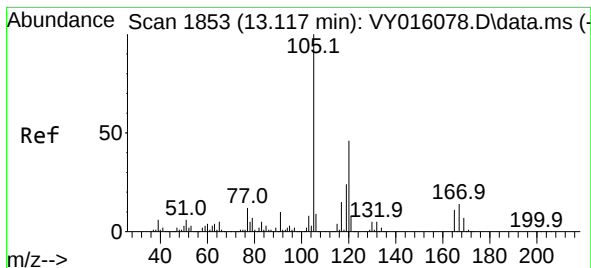
Tgt Ion:105 Resp: 1620976

Ion Ratio Lower Upper

105 100

120 49.7 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 610.531 ug/l

RT: 13.123 min Scan# 1853

Delta R.T. 0.006 min

Lab File: VY016115.D

Acq: 27 Oct 2023 19:40

Instrument :

MSVOA_Y

ClientSampleId :

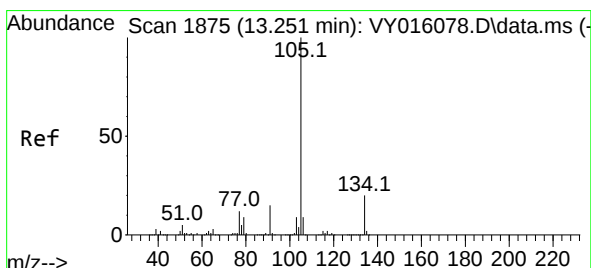
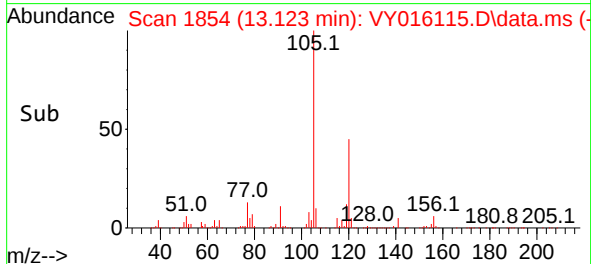
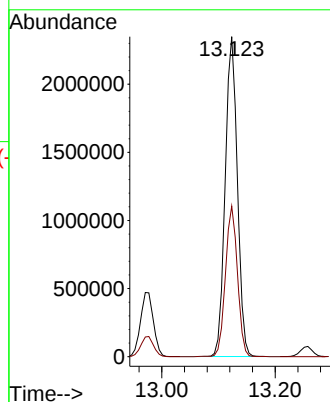
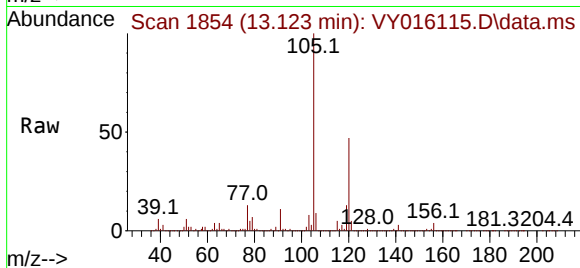
1077

Tgt Ion:105 Resp: 3496962

Ion Ratio Lower Upper

105 100

120 46.4 22.2 66.6



#85

sec-Butylbenzene

Concen: 14.213 ug/l

RT: 13.257 min Scan# 1876

Delta R.T. 0.006 min

Lab File: VY016115.D

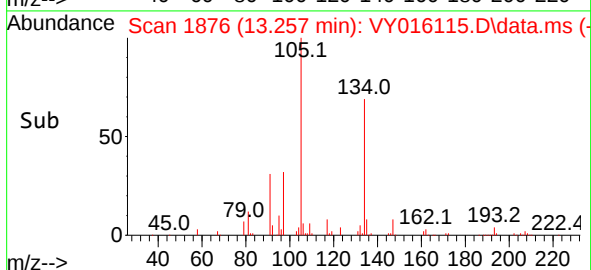
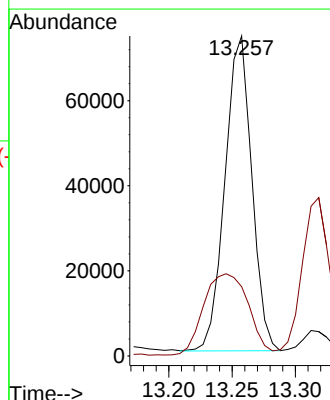
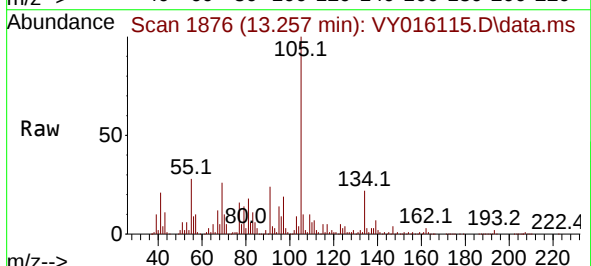
Acq: 27 Oct 2023 19:40

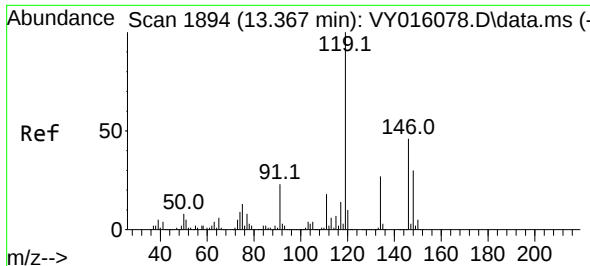
Tgt Ion:105 Resp: 109128

Ion Ratio Lower Upper

105 100

134 42.9 10.2 30.6#

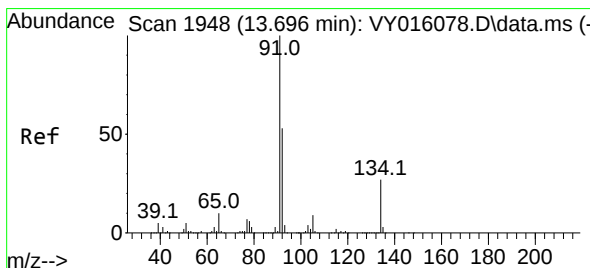
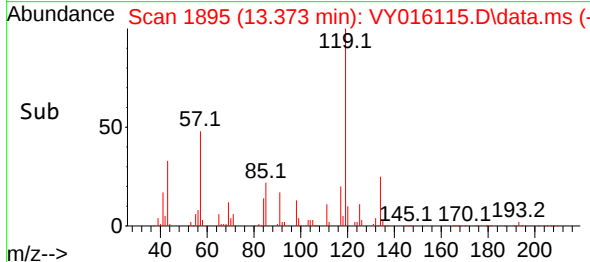
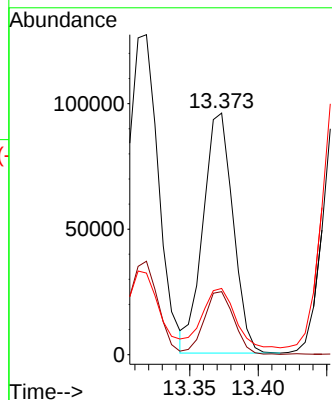
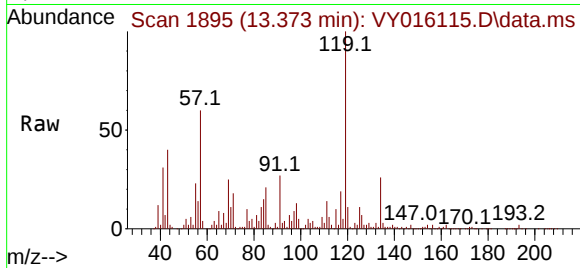




#86
 p-Isopropyltoluene
 Concen: 22.725 ug/l
 RT: 13.373 min Scan# 1197
 Delta R.T. 0.006 min
 Lab File: VY016115.D
 Acq: 27 Oct 2023 19:40

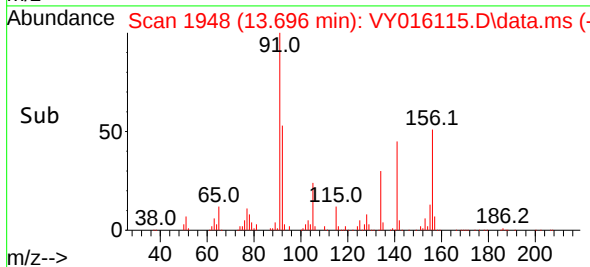
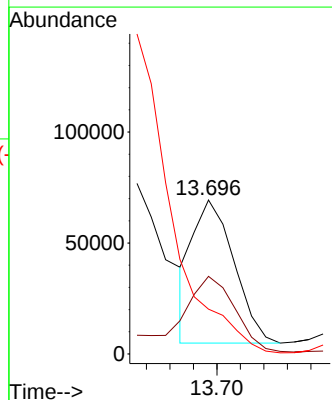
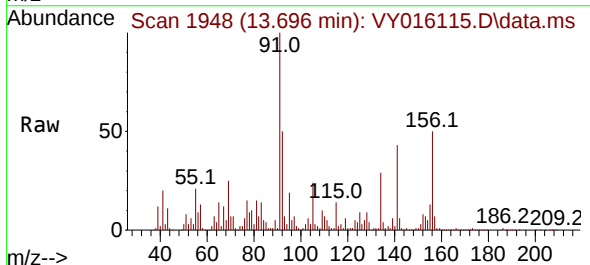
Instrument :
 MSVOA_Y
 ClientSampleId :
 1077

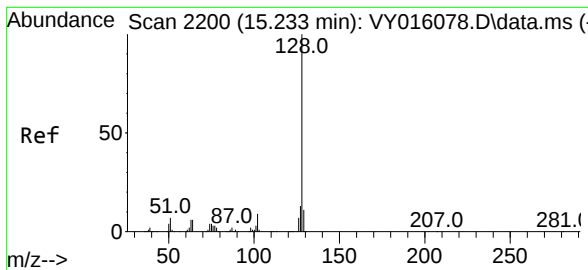
Tgt Ion:	119	Resp:	145593
Ion	Ratio	Lower	Upper
119	100		
134	25.9	13.3	39.8
91	26.9	12.4	37.4



#89
 n-Butylbenzene
 Concen: 13.153 ug/l
 RT: 13.696 min Scan# 1948
 Delta R.T. -0.000 min
 Lab File: VY016115.D
 Acq: 27 Oct 2023 19:40

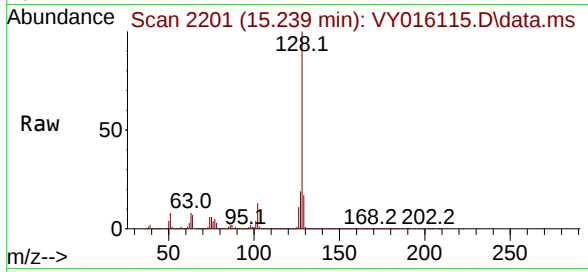
Tgt Ion:	91	Resp:	78610
Ion	Ratio	Lower	Upper
91	100		
92	76.6	25.4	76.0#
134	0.0	12.6	37.6#





#95
Naphthalene
Concen: 4631.818 ug/l
RT: 15.239 min Scan# 21
Delta R.T. 0.006 min
Lab File: VY016115.D
Acq: 27 Oct 2023 19:40

Instrument :
MSVOA_Y
ClientSampleId :
1077



Tgt Ion:128 Resp:16287897
Ion Ratio Lower Upper
128 100
127 16.0 10.8 16.2
129 14.0 8.6 13.0#

