

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102623\
 Data File : VY016092.D
 Acq On : 26 Oct 2023 21:03
 Operator : SY/MD
 Sample : 05040-01
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 M-4(50FT)(0-5)

Quant Time: Oct 27 04:22:43 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)

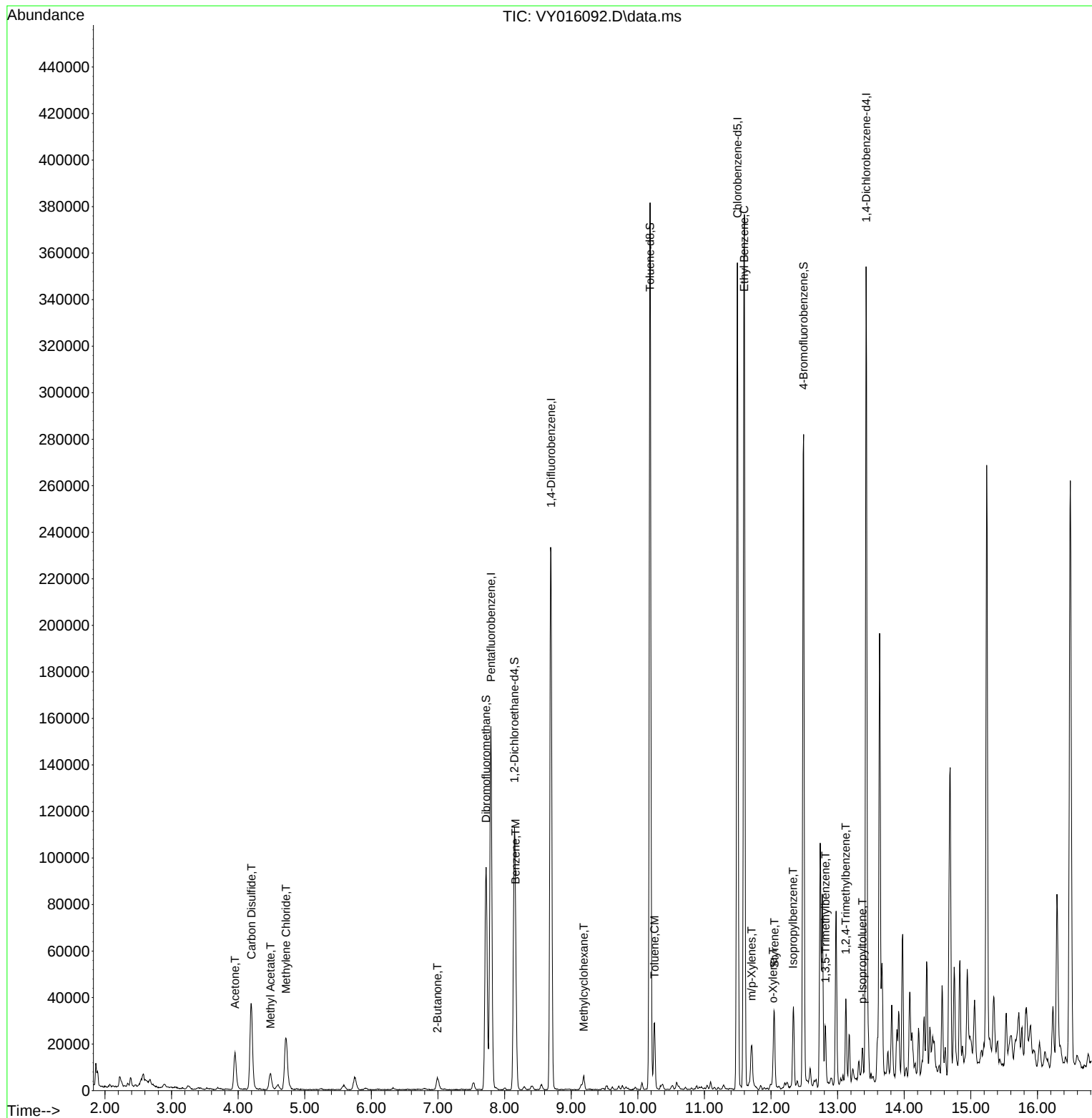
Internal Standards						
1) Pentafluorobenzene	7.795	168	121510	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	212871	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	195427	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	89869	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	73611	60.924	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 121.840%	
35) Dibromofluoromethane	7.722	113	70064	52.137	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.280%	
50) Toluene-d8	10.185	98	249241	50.070	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.140%	
62) 4-Bromofluorobenzene	12.489	95	84918	49.732	ug/l	0.01
Spiked Amount	50.000	Range	30 - 143	Recovery	= 99.460%	
Target Compounds						
					Qvalue	
16) Acetone	3.954	43	27167	82.955	ug/l #	83
17) Carbon Disulfide	4.198	76	79615	27.720	ug/l	100
18) Methyl Acetate	4.485	43	13681	11.816	ug/l #	89
20) Methylene Chloride	4.716	84	17329	8.782	ug/l	94
25) 2-Butanone	6.990	43	8092	18.308	ug/l #	88
39) Methylcyclohexane	9.191	83	2358	1.033	ug/l	89
40) Benzene	8.167	78	39417	7.432	ug/l	98
52) Toluene	10.252	92	12121	3.559	ug/l	96
67) Ethyl Benzene	11.599	91	259338	38.018	ug/l	99
68) m/p-Xylenes	11.709	106	6053	2.293	ug/l	99
69) o-Xylene	12.032	106	2821	1.116	ug/l	99
70) Styrene	12.050	104	14704	3.490	ug/l	90
73) Isopropylbenzene	12.331	105	15360	2.429	ug/l	97
80) 1,3,5-Trimethylbenzene	12.818	105	9679	1.843	ug/l	99
84) 1,2,4-Trimethylbenzene	13.123	105	20888	4.028	ug/l	96
86) p-Isopropyltoluene	13.373	119	7424	1.280	ug/l	98

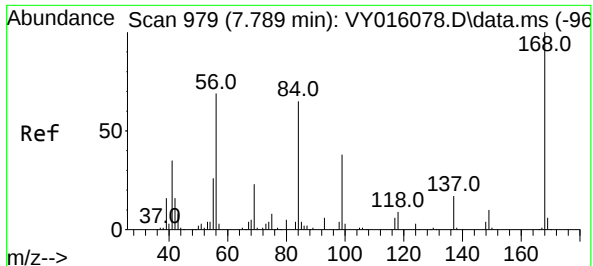
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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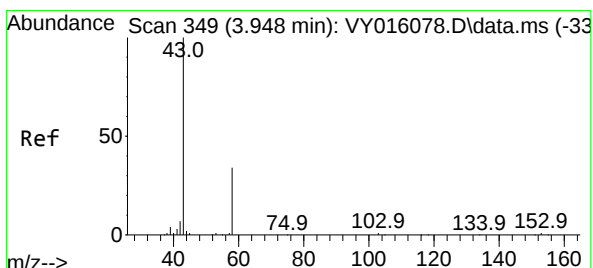
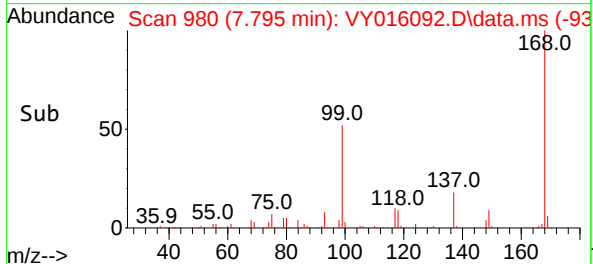
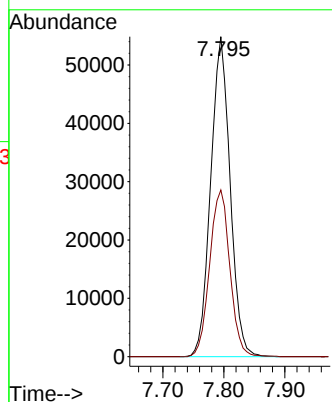
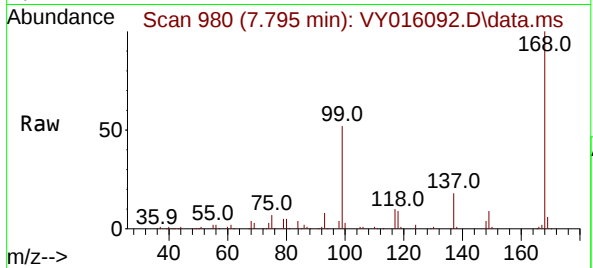




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

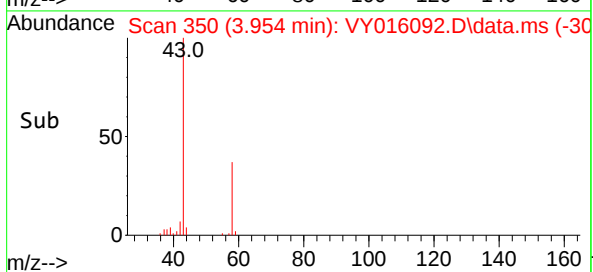
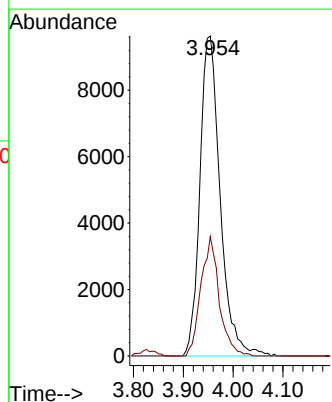
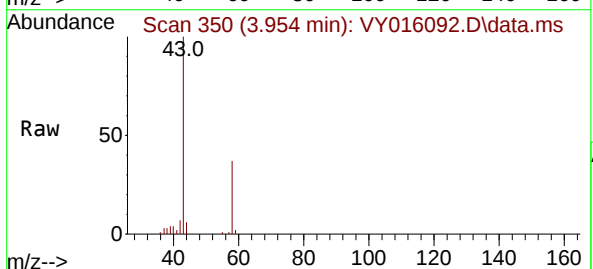
Instrument :
MSVOA_Y
ClientSampleId :
M-4(50FT)(0-5)

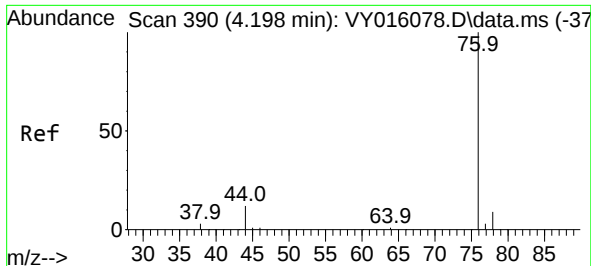
Tgt Ion:168 Resp: 121510
Ion Ratio Lower Upper
168 100
99 52.1 43.4 65.0



#16
Acetone
Concen: 82.955 ug/l
RT: 3.954 min Scan# 350
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion: 43 Resp: 27167
Ion Ratio Lower Upper
43 100
58 37.3 22.7 34.1#

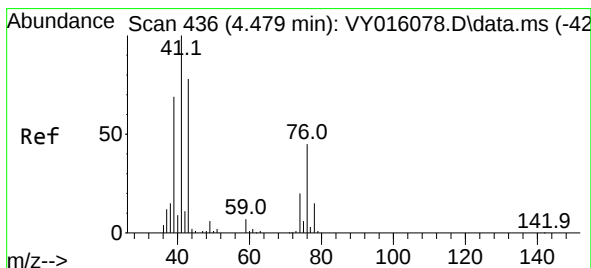
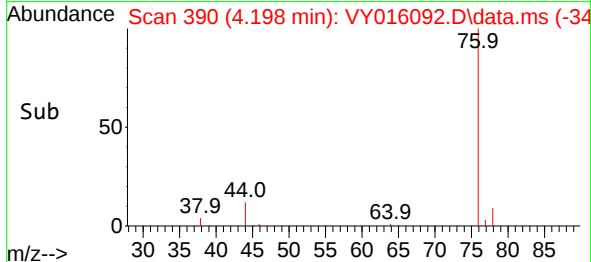
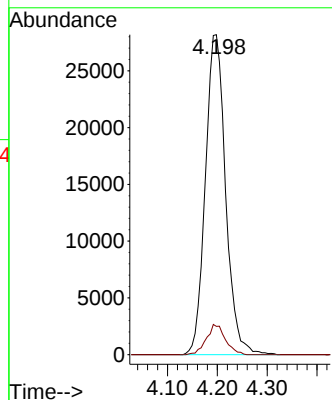
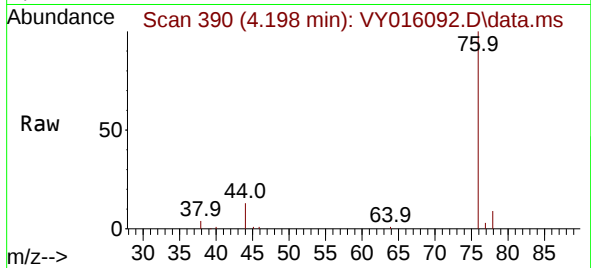




#17
Carbon Disulfide
Concen: 27.720 ug/l
RT: 4.198 min Scan# 390
Delta R.T. -0.000 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

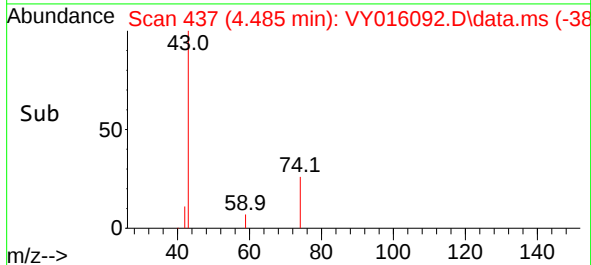
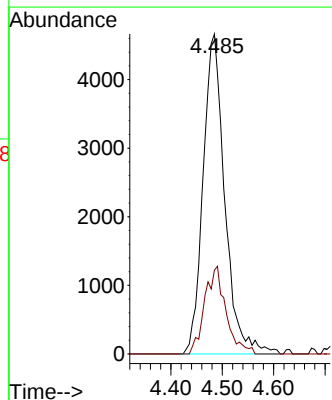
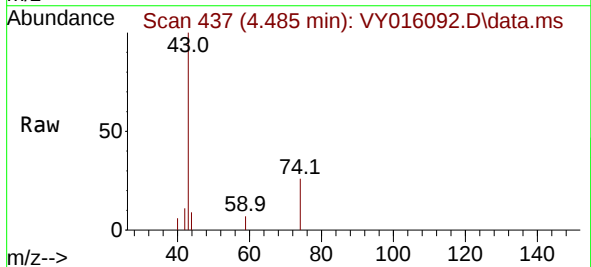
Instrument :
MSVOA_Y
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M-4(50FT)(0-5)

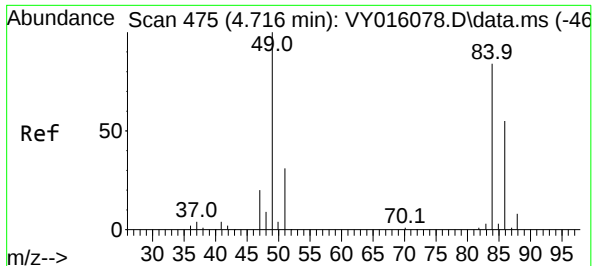
Tgt Ion: 76 Resp: 79615
Ion Ratio Lower Upper
76 100
78 8.8 7.0 10.4



#18
Methyl Acetate
Concen: 11.816 ug/l
RT: 4.485 min Scan# 437
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion: 43 Resp: 13681
Ion Ratio Lower Upper
43 100
74 26.8 17.4 26.0#

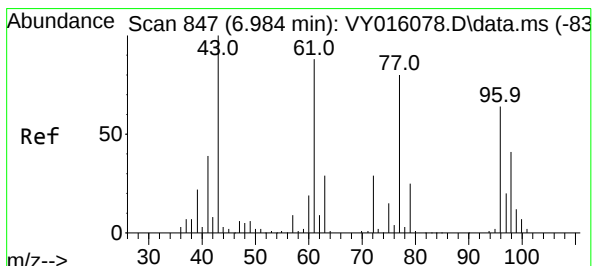
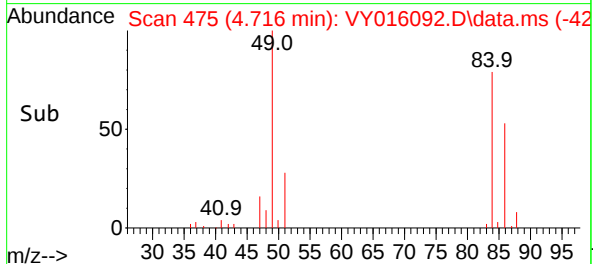
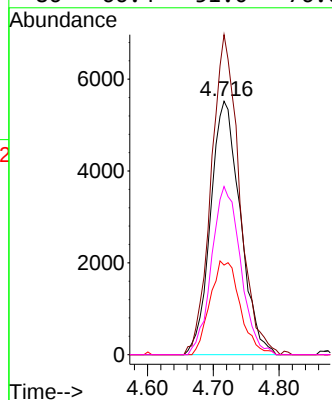
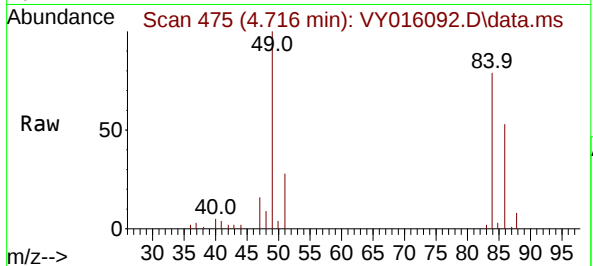




#20
Methylene Chloride
Concen: 8.782 ug/l
RT: 4.716 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

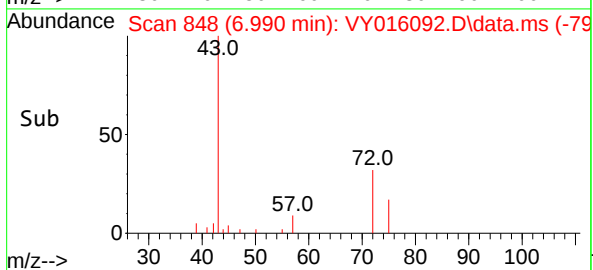
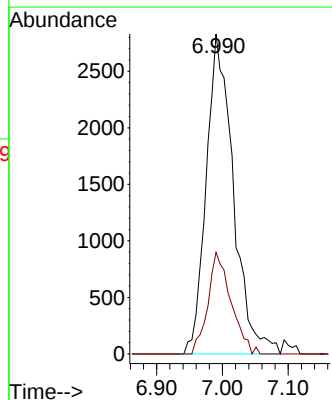
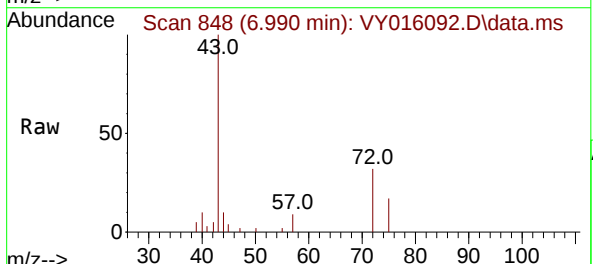
Instrument :
MSVOA_Y
ClientSampleId :
M-4(50FT)(0-5)

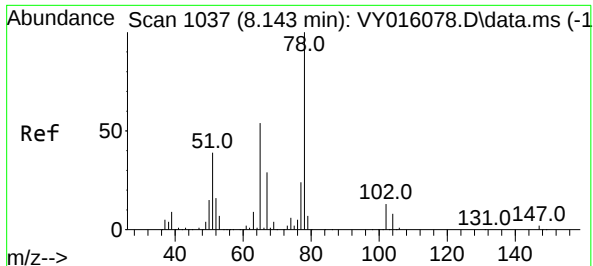
Tgt Ion:	84	Resp:	17329
Ion	Ratio	Lower	Upper
84	100		
49	126.3	106.9	160.3
51	35.4	33.2	49.8
86	66.4	51.0	76.6



#25
2-Butanone
Concen: 18.308 ug/l
RT: 6.990 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion:	43	Resp:	8092
Ion	Ratio	Lower	Upper
43	100		
72	31.7	20.5	30.7#





#33

1,2-Dichloroethane-d4

Concen: 60.924 ug/l

RT: 8.149 min Scan# 110

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

ClientSampleId :

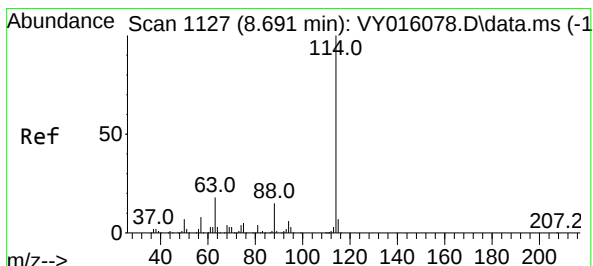
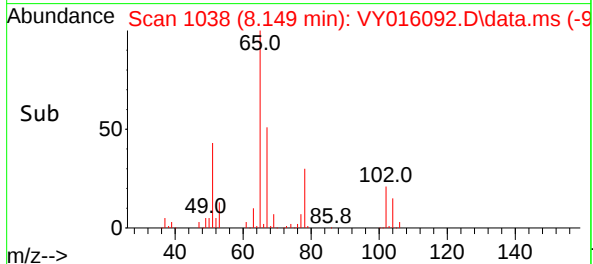
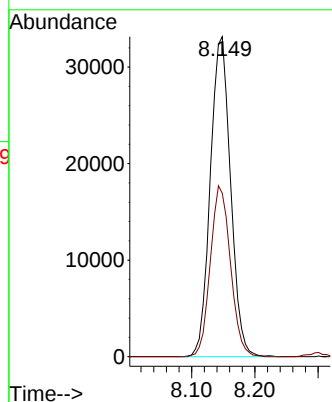
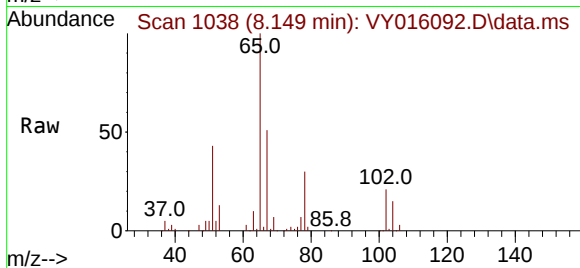
M-4(50FT)(0-5)

Tgt Ion: 65 Resp: 73611

Ion Ratio Lower Upper

65 100

67 53.1 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

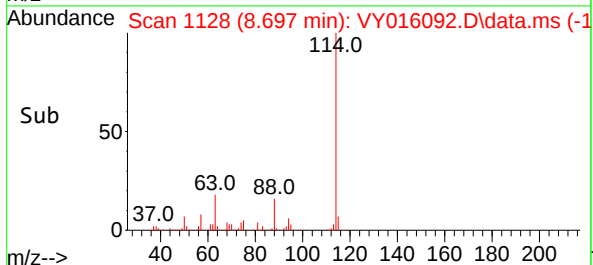
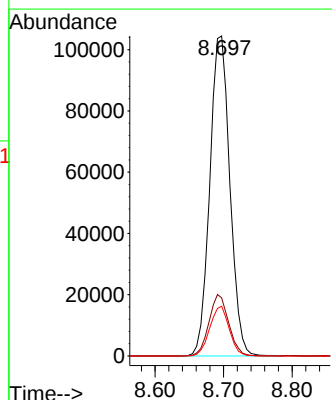
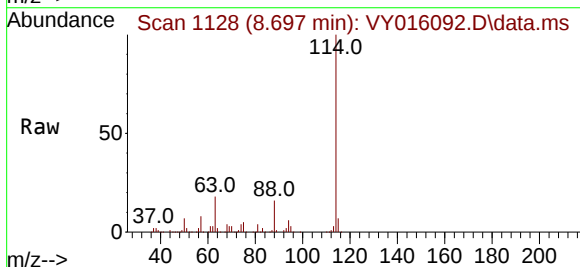
Tgt Ion: 114 Resp: 212871

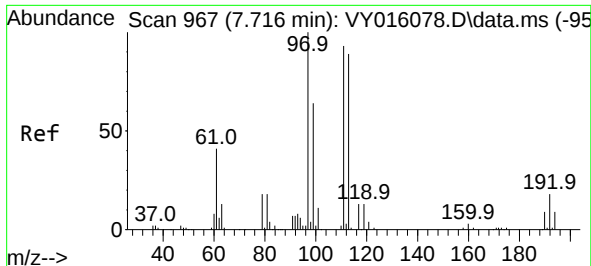
Ion Ratio Lower Upper

114 100

63 18.1 0.0 42.4

88 15.5 0.0 30.6

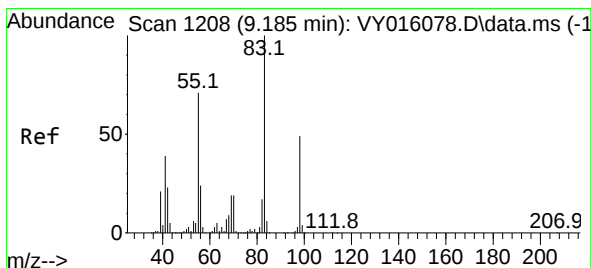
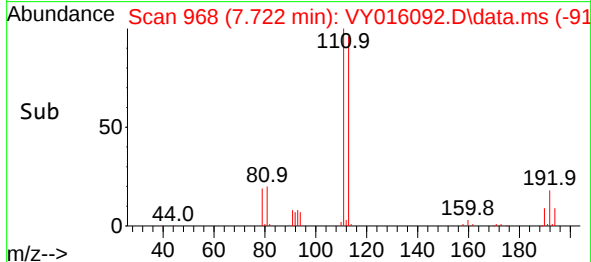
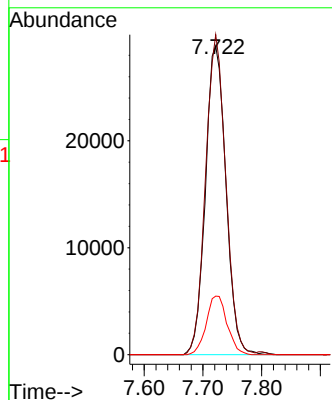
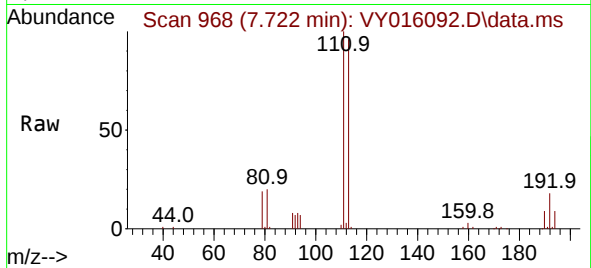




#35
Dibromofluoromethane
Concen: 52.137 ug/l
RT: 7.722 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

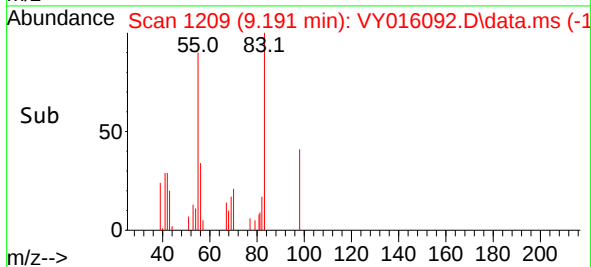
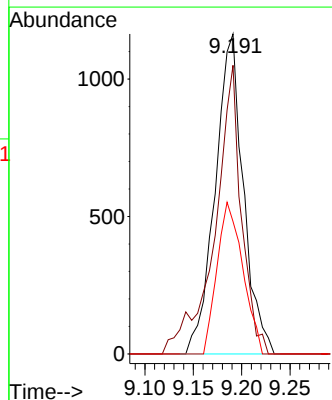
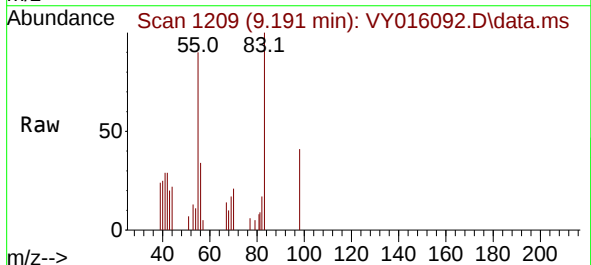
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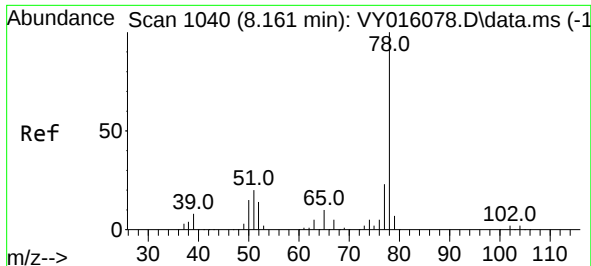
Tgt Ion:113 Resp: 70064
Ion Ratio Lower Upper
113 100
111 101.8 81.3 121.9
192 19.3 16.9 25.3



#39
Methylcyclohexane
Concen: 1.033 ug/l
RT: 9.191 min Scan# 1209
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion: 83 Resp: 2358
Ion Ratio Lower Upper
83 100
55 90.2 63.0 94.4
98 41.4 37.4 56.2

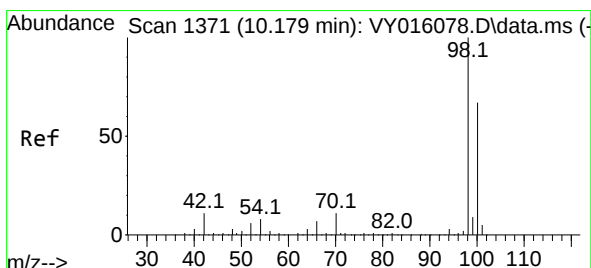
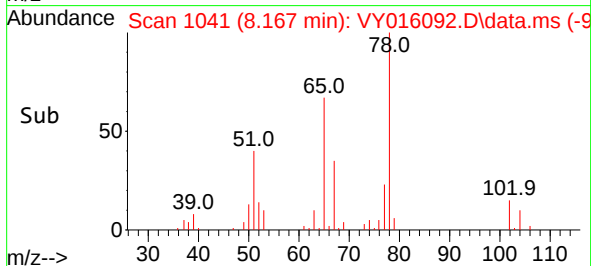
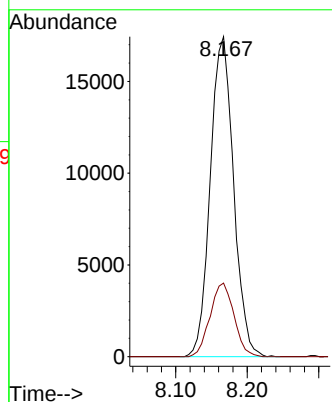
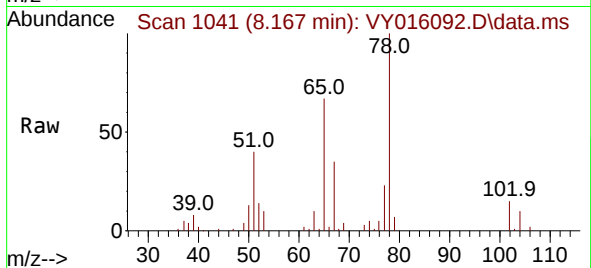




#40
Benzene
Concen: 7.432 ug/l
RT: 8.167 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

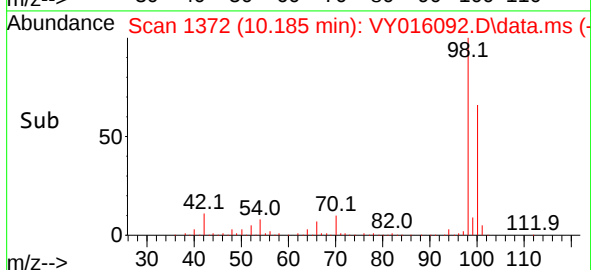
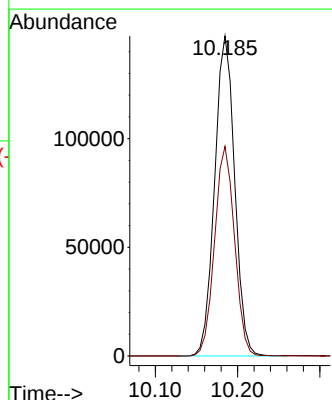
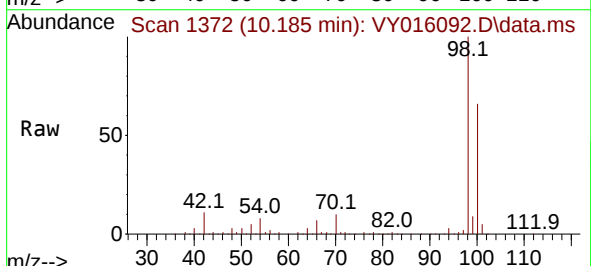
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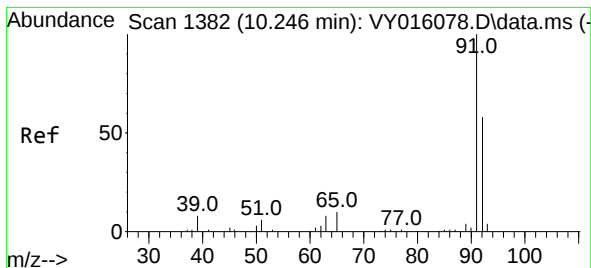
Tgt Ion: 78 Resp: 39417
Ion Ratio Lower Upper
78 100
77 23.0 19.0 28.6



#50
Toluene-d8
Concen: 50.070 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion: 98 Resp: 249241
Ion Ratio Lower Upper
98 100
100 65.2 50.1 75.1





#52

Toluene

Concen: 3.559 ug/l

RT: 10.252 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

ClientSampleId :

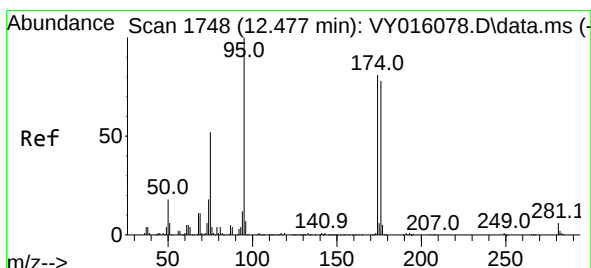
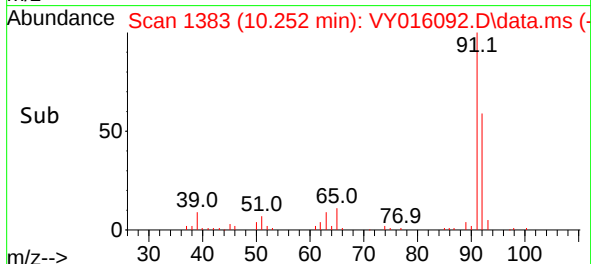
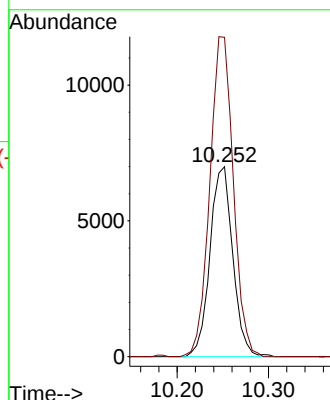
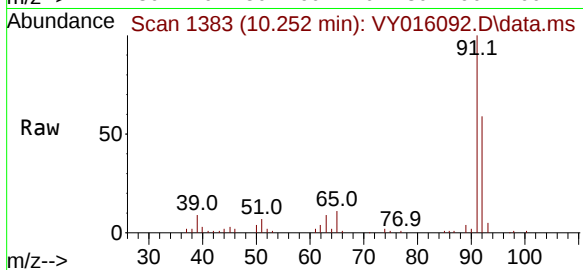
M-4(50FT)(0-5)

Tgt Ion: 92 Resp: 12121

Ion Ratio Lower Upper

92 100

91 173.6 143.8 215.6



#62

4-Bromofluorobenzene

Concen: 49.732 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. 0.012 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

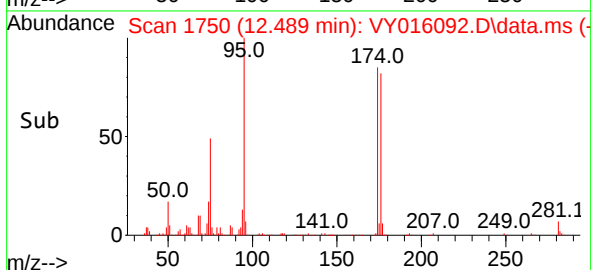
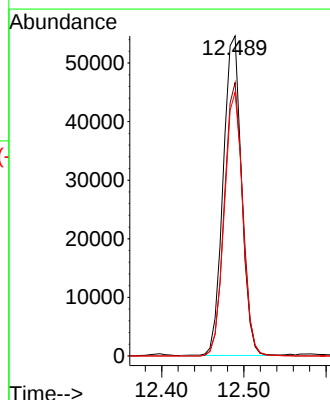
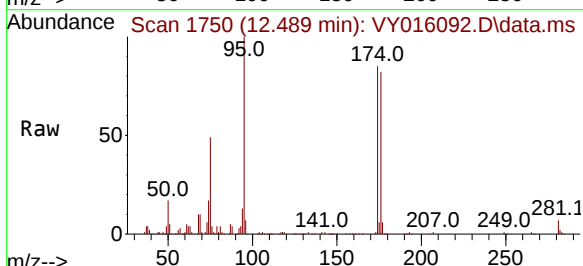
Tgt Ion: 95 Resp: 84918

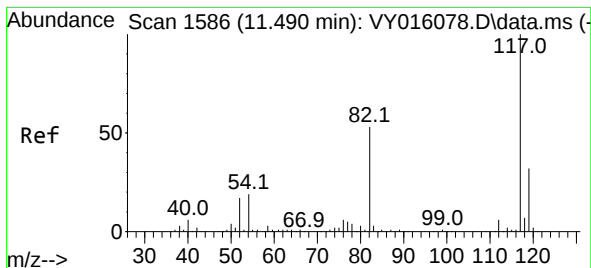
Ion Ratio Lower Upper

95 100

174 85.6 0.0 178.2

176 82.7 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.495 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

ClientSampleId :

M-4(50FT)(0-5)

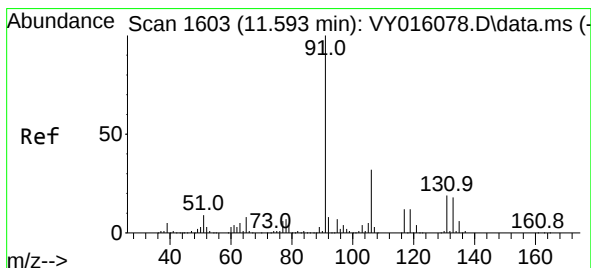
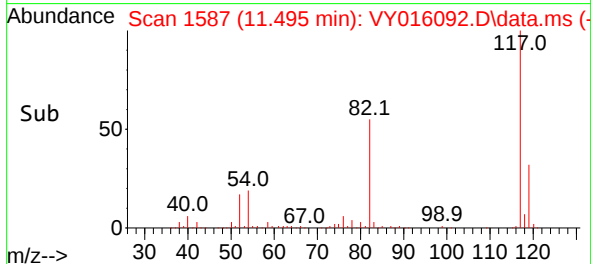
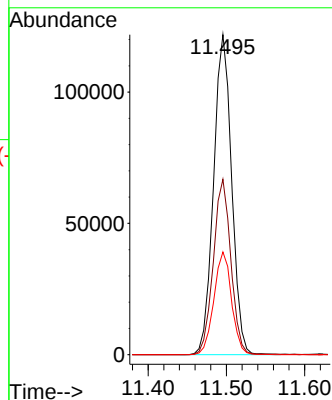
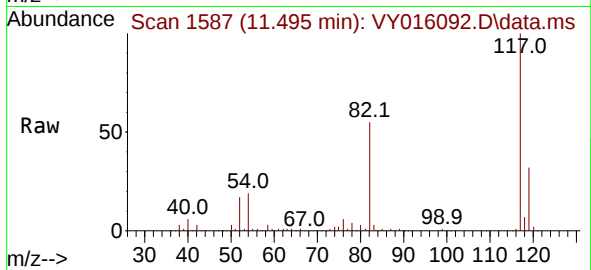
Tgt Ion:117 Resp: 195427

Ion Ratio Lower Upper

117 100

82 54.8 43.4 65.0

119 32.1 26.3 39.5



#67

Ethyl Benzene

Concen: 38.018 ug/l

RT: 11.599 min Scan# 1604

Delta R.T. 0.006 min

Lab File: VY016092.D

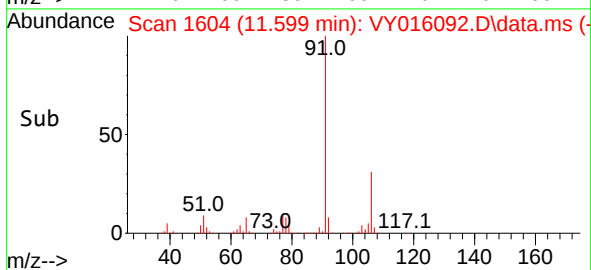
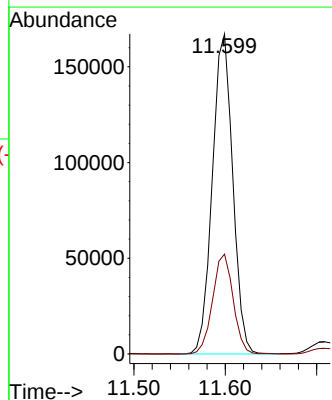
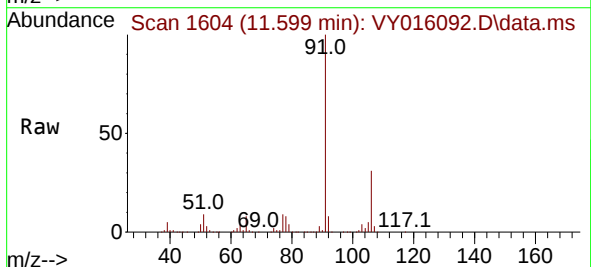
Acq: 26 Oct 2023 21:03

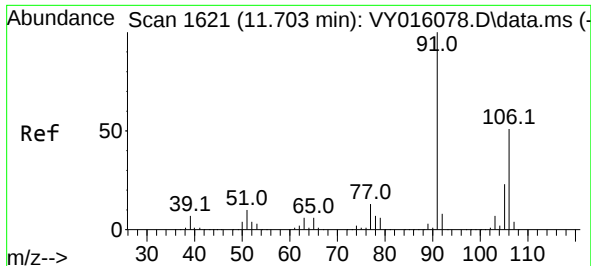
Tgt Ion: 91 Resp: 259338

Ion Ratio Lower Upper

91 100

106 31.2 24.6 36.8

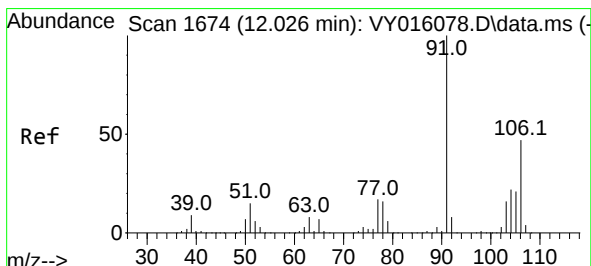
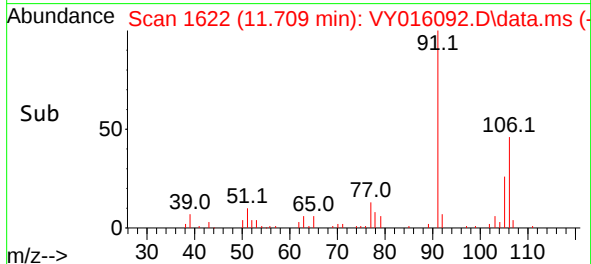
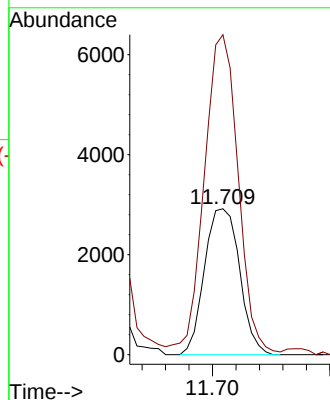
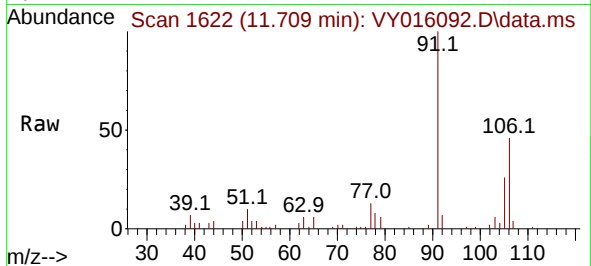




#68
m/p-Xylenes
Concen: 2.293 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

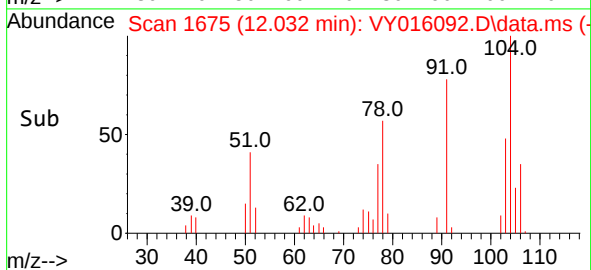
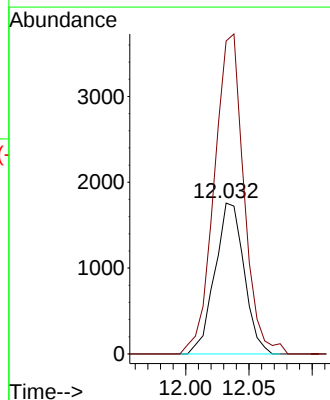
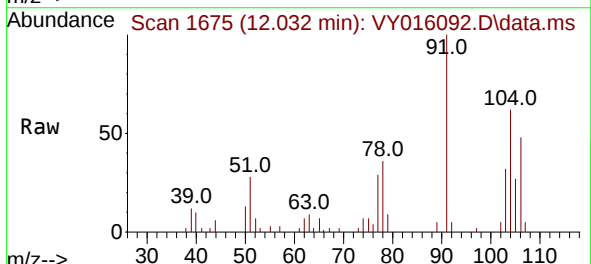
Instrument :
MSVOA_Y
ClientSampleId :
M-4(50FT)(0-5)

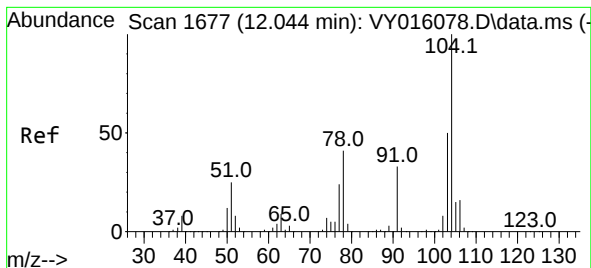
Tgt Ion:106 Resp: 6053
Ion Ratio Lower Upper
106 100
91 208.8 166.1 249.1



#69
o-Xylene
Concen: 1.116 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion:106 Resp: 2821
Ion Ratio Lower Upper
106 100
91 215.1 108.1 324.3





#70

Styrene

Concen: 3.490 ug/l

RT: 12.050 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

ClientSampleId :

M-4(50FT)(0-5)

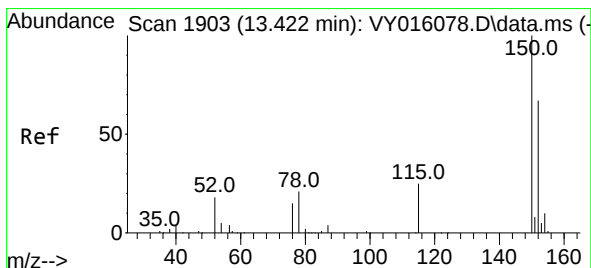
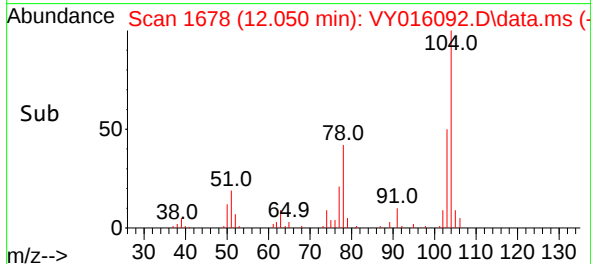
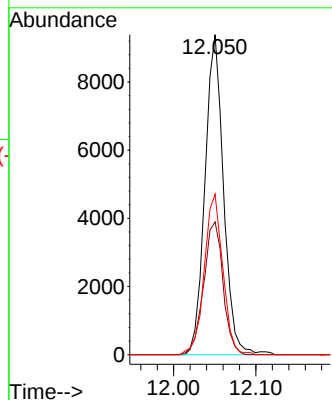
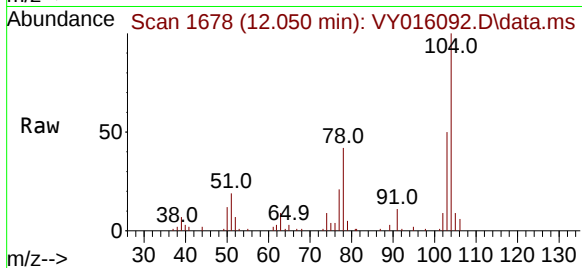
Tgt Ion:104 Resp: 14704

Ion Ratio Lower Upper

104 100

78 43.3 41.5 62.3

103 50.1 44.6 67.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

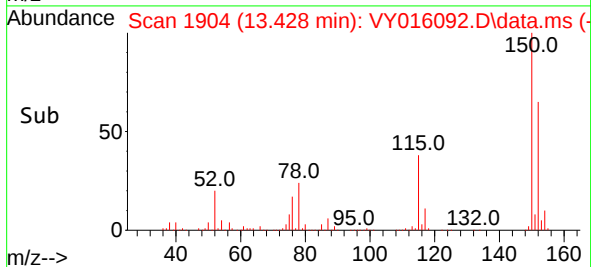
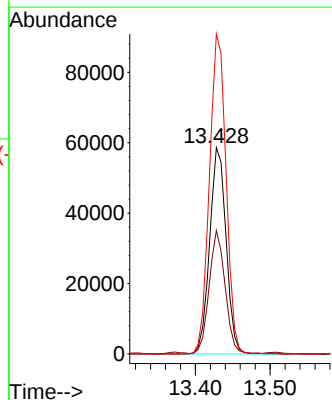
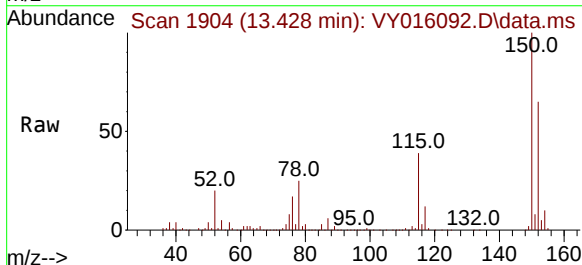
Tgt Ion:152 Resp: 89869

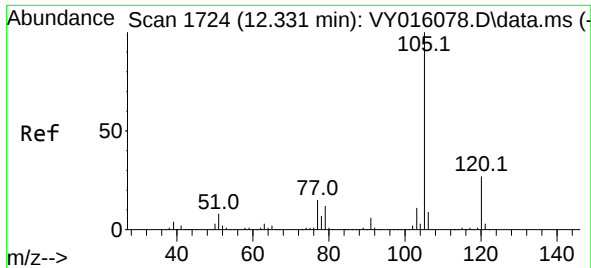
Ion Ratio Lower Upper

152 100

115 57.2 28.8 86.5

150 156.8 0.0 348.8

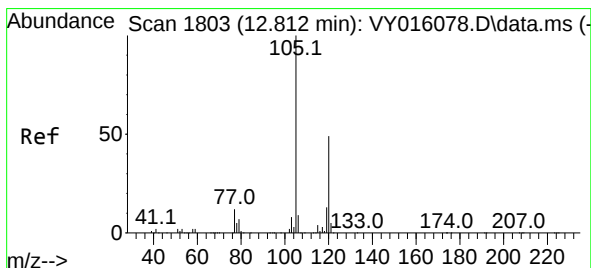
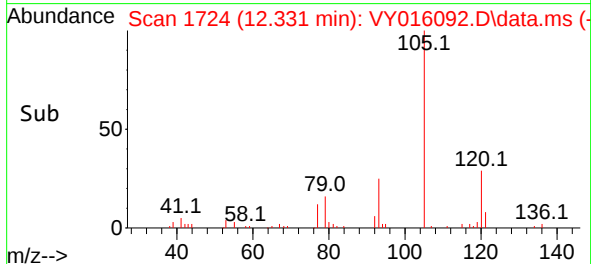
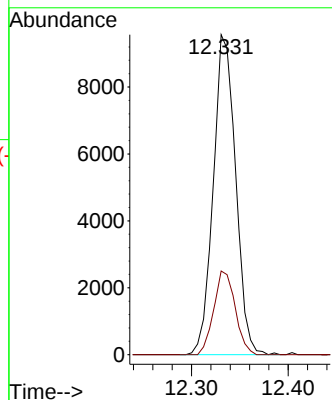
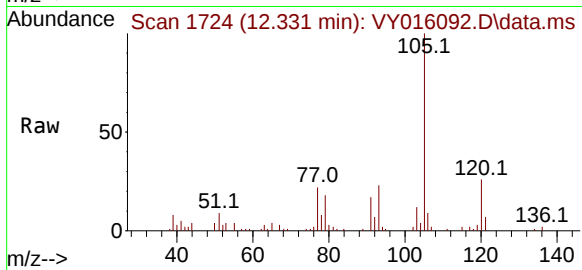




#73
Isopropylbenzene
Concen: 2.429 ug/l
RT: 12.331 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

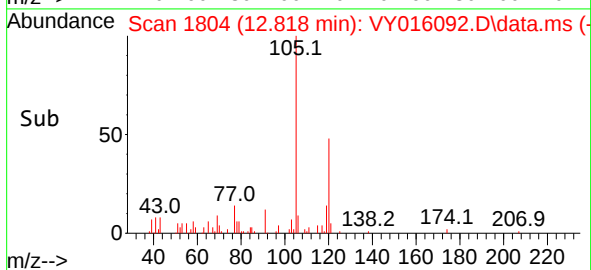
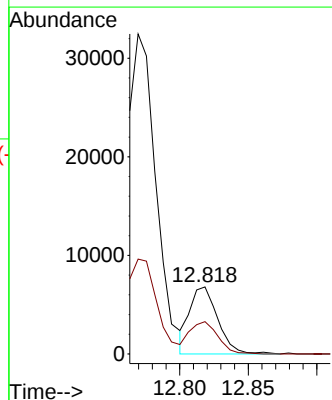
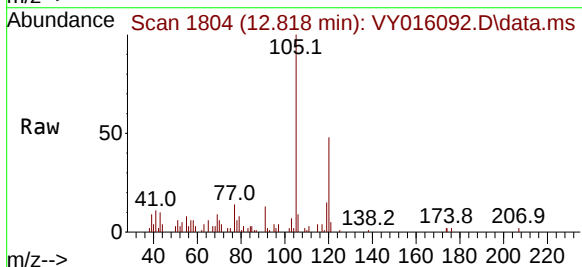
Instrument :
MSVOA_Y
ClientSampleId :
M-4(50FT)(0-5)

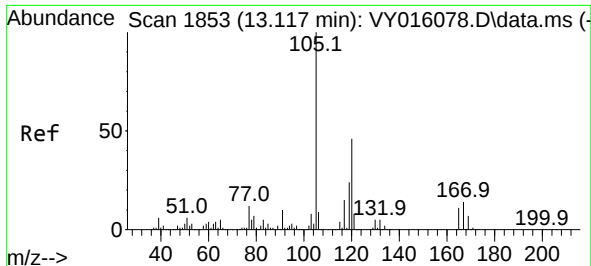
Tgt Ion:105 Resp: 15360
Ion Ratio Lower Upper
105 100
120 25.0 13.3 39.9



#80
1,3,5-Trimethylbenzene
Concen: 1.843 ug/l
RT: 12.818 min Scan# 1804
Delta R.T. 0.006 min
Lab File: VY016092.D
Acq: 26 Oct 2023 21:03

Tgt Ion:105 Resp: 9679
Ion Ratio Lower Upper
105 100
120 48.7 23.9 71.7





#84

1,2,4-Trimethylbenzene

Concen: 4.028 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Instrument :

MSVOA_Y

ClientSampleId :

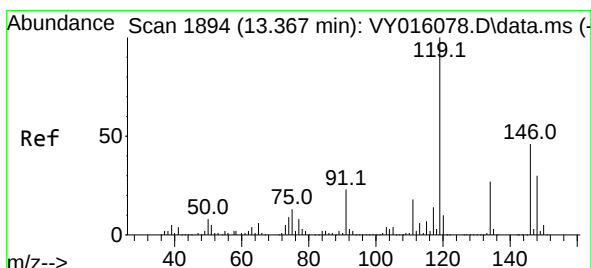
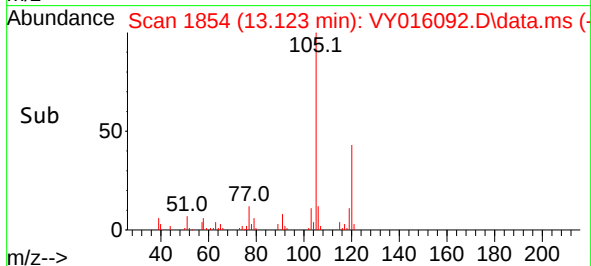
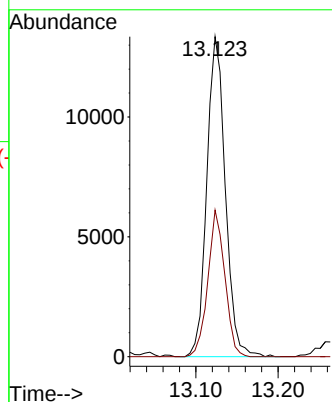
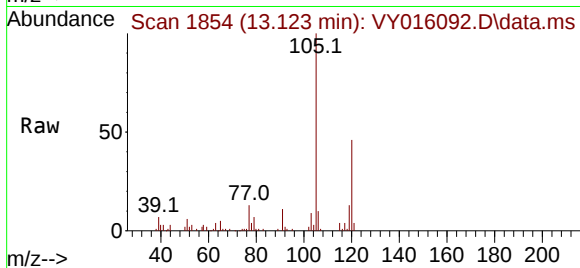
M-4(50FT)(0-5)

Tgt Ion:105 Resp: 20888

Ion Ratio Lower Upper

105 100

120 42.0 22.2 66.6



#86

p-Isopropyltoluene

Concen: 1.280 ug/l

RT: 13.373 min Scan# 1895

Delta R.T. 0.006 min

Lab File: VY016092.D

Acq: 26 Oct 2023 21:03

Tgt Ion:119 Resp: 7424

Ion Ratio Lower Upper

119 100

134 26.0 13.3 39.8

91 23.8 12.4 37.4

