

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102022\
 Data File : VY011030.D
 Acq On : 20 Oct 2022 17:06
 Operator : KP/MD
 Sample : N5193-13
 Misc : 6.89g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LSP-SS-07-00-20

Quant Time: Oct 20 22:24:57 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y101722S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 18 01:42:42 2022
 Response via : Initial Calibration

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

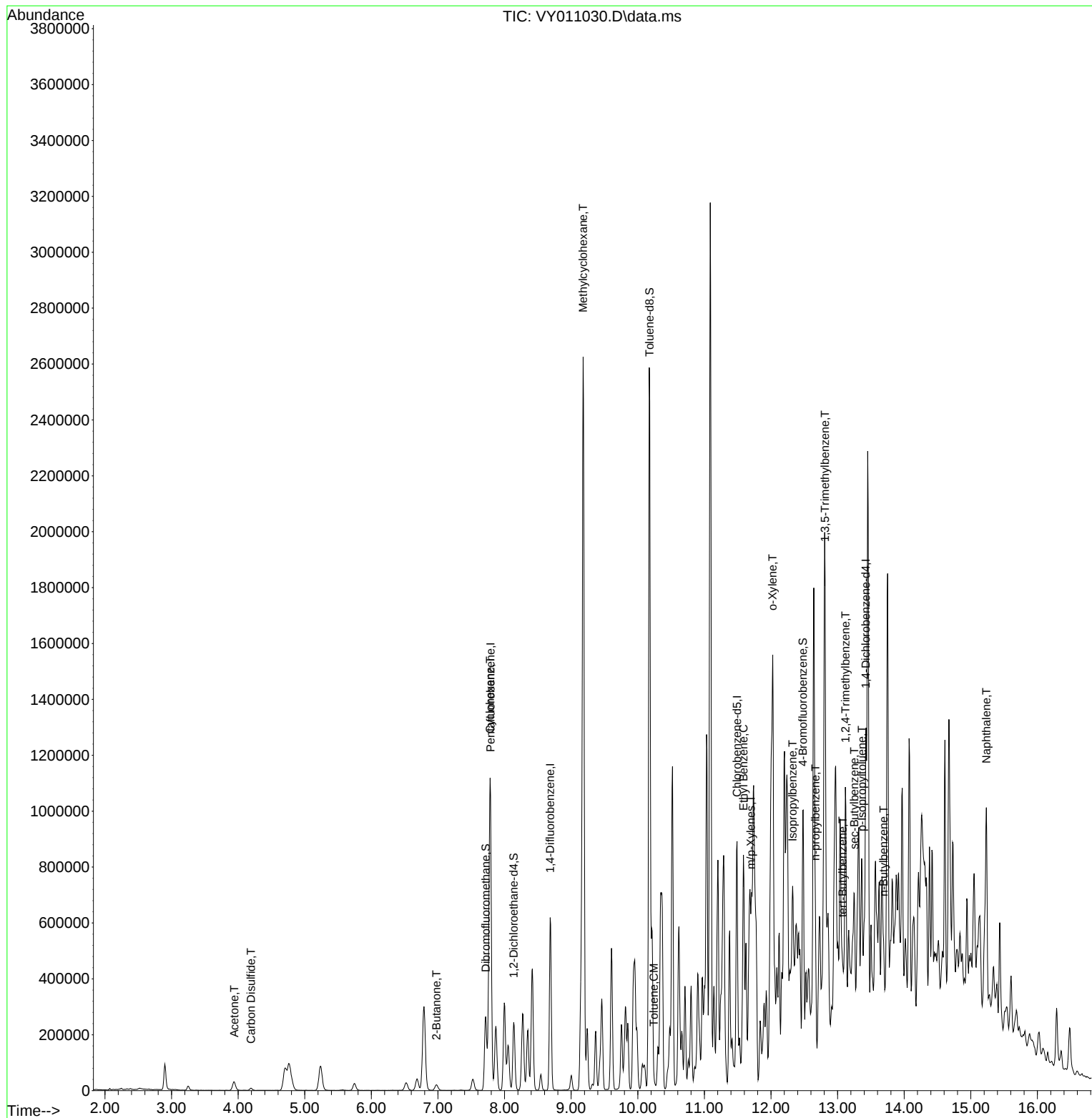
Internal Standards						
1) Pentafluorobenzene	7.789	168	330327	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	545129	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	455376	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	208887	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.137	65	185105	60.834	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 121.660%			
35) Dibromofluoromethane	7.716	113	190255	63.179	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 126.360%			
50) Toluene-d8	10.179	98	768260	67.496	ug/l	0.00
Spiked Amount 50.000	Range 49 - 140		Recovery = 135.000%			
62) 4-Bromofluorobenzene	12.477	95	247411	62.107	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 124.220%			
Target Compounds					Qvalue	
16) Acetone	3.942	43	23427	26.513	ug/l #	82
17) Carbon Disulfide	4.192	76	15097	1.643	ug/l	99
25) 2-Butanone	6.978	43	11498	8.580	ug/l #	65
31) Cyclohexane	7.783	56	421211	72.340	ug/l	92
39) Methylcyclohexane	9.179	83	1167085	192.015	ug/l	92
52) Toluene	10.240	92	10205	1.103	ug/l	98
67) Ethyl Benzene	11.587	91	434699	26.282	ug/l	100
68) m/p-Xylenes	11.697	106	51083	8.029	ug/l	94
69) o-Xylene	12.026	106	297898	49.308	ug/l	97
73) Isopropylbenzene	12.325	105	249607	16.447	ug/l	99
78) n-propylbenzene	12.666	91	286001	15.489	ug/l	100
80) 1,3,5-Trimethylbenzene	12.813	105	283148	22.361	ug/l	100
83) tert-Butylbenzene	13.075	119	21782	1.989	ug/l	96
84) 1,2,4-Trimethylbenzene	13.117	105	391210	31.332	ug/l	98
85) sec-Butylbenzene	13.251	105	180761	10.986	ug/l	79
86) p-Isopropyltoluene	13.367	119	92056	6.744	ug/l	98
89) n-Butylbenzene	13.690	91	119117	9.339	ug/l #	69
95) Naphthalene	15.233	128	562435	72.952	ug/l	98

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

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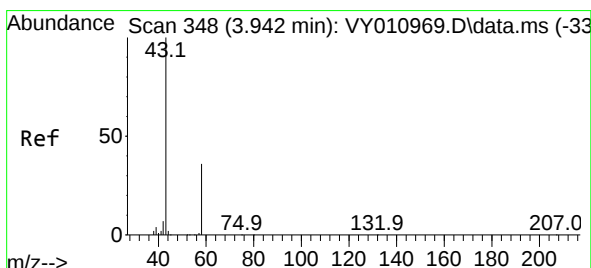
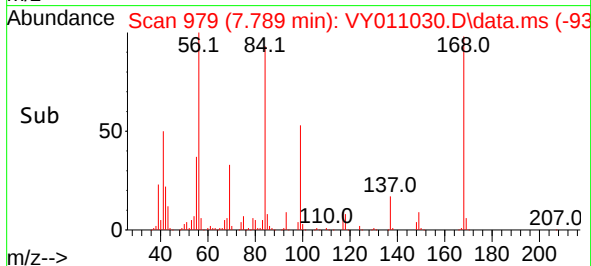
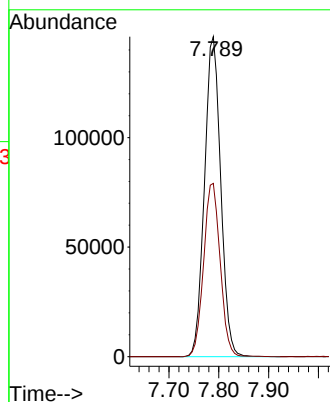
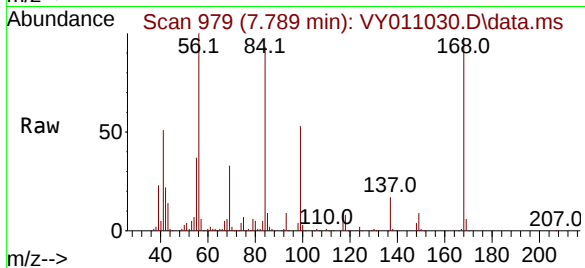




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

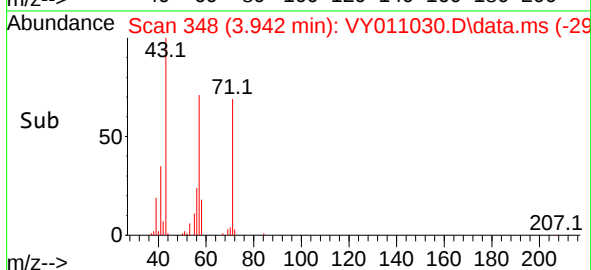
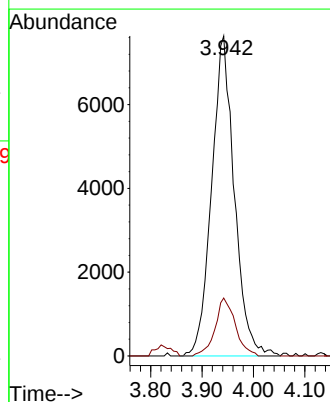
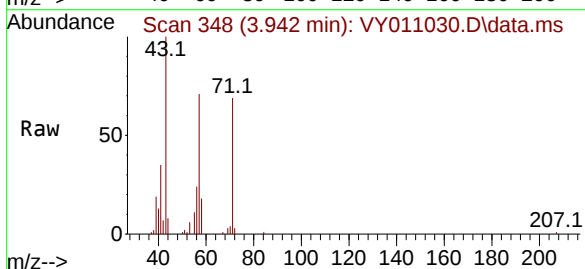
Instrument :
MSVOA_Y
ClientSampleId :
LSP-SS-07-00-20

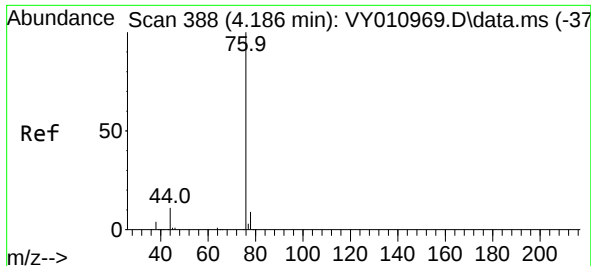
Tgt Ion:168 Resp: 330327
Ion Ratio Lower Upper
168 100
99 54.2 46.9 70.3



#16
Acetone
Concen: 26.513 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

Tgt Ion: 43 Resp: 23427
Ion Ratio Lower Upper
43 100
58 18.1 22.0 33.0#

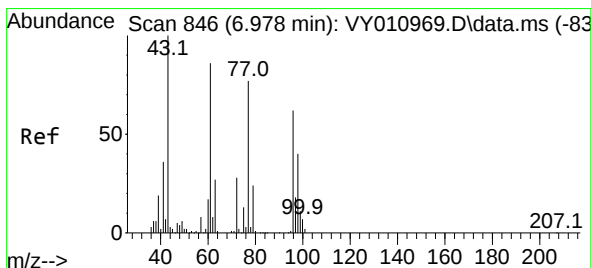
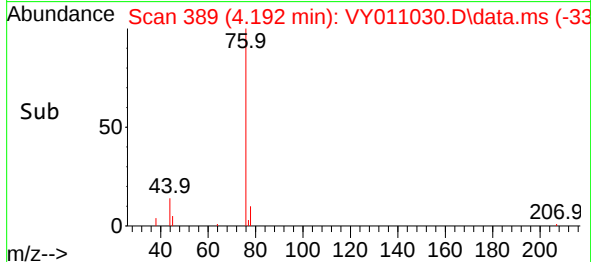
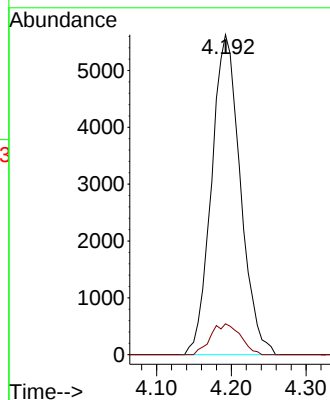
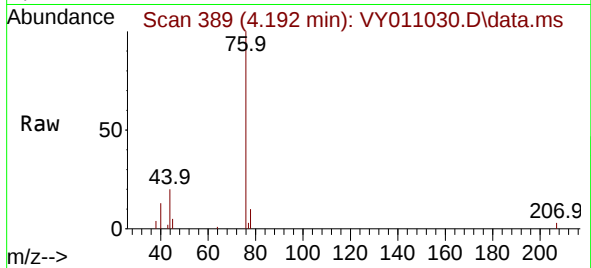




#17
Carbon Disulfide
Concen: 1.643 ug/l
RT: 4.192 min Scan# 389
Delta R.T. 0.006 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

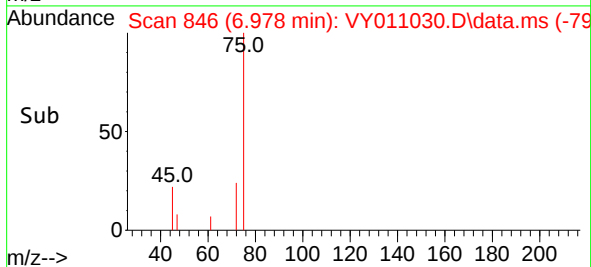
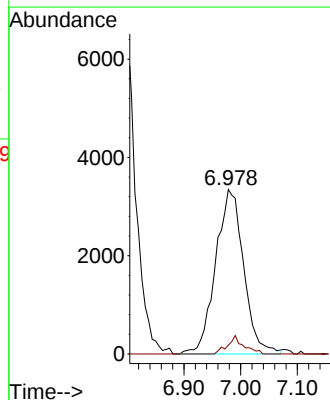
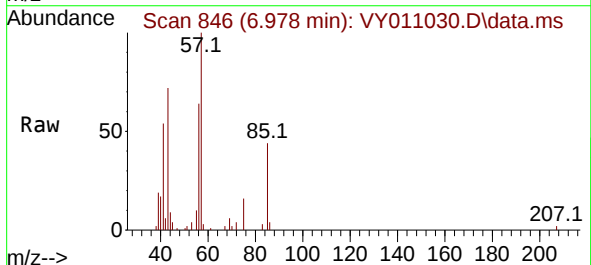
Instrument :
MSVOA_Y
ClientSampleId :
LSP-SS-07-00-20

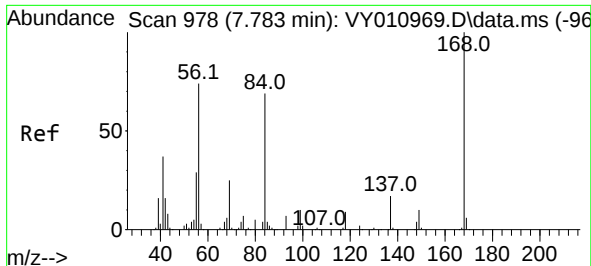
Tgt Ion: 76 Resp: 15097
Ion Ratio Lower Upper
76 100
78 9.6 7.4 11.0



#25
2-Butanone
Concen: 8.580 ug/l
RT: 6.978 min Scan# 846
Delta R.T. 0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

Tgt Ion: 43 Resp: 11498
Ion Ratio Lower Upper
43 100
72 5.4 17.7 26.5#

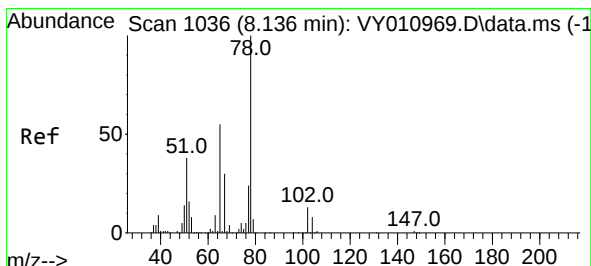
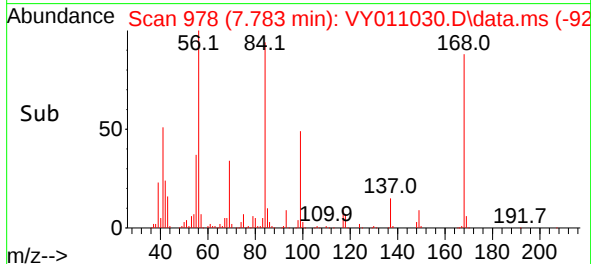
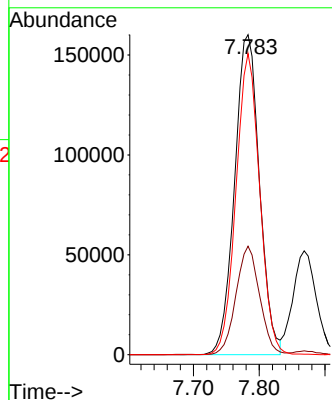
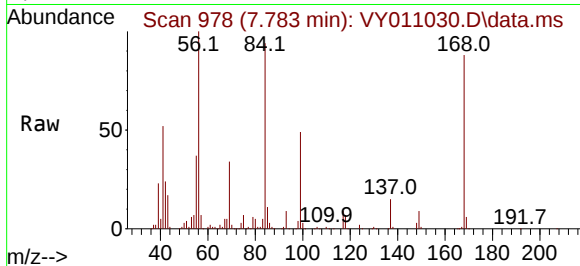




#31
Cyclohexane
Concen: 72.340 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

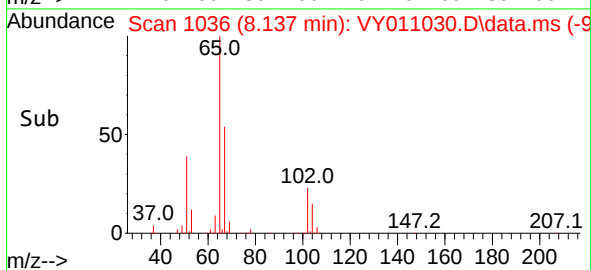
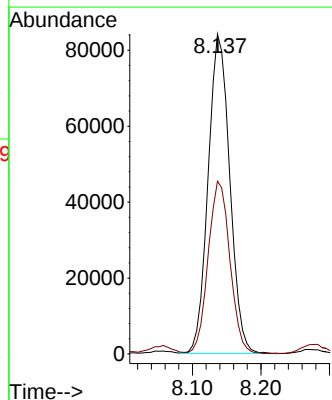
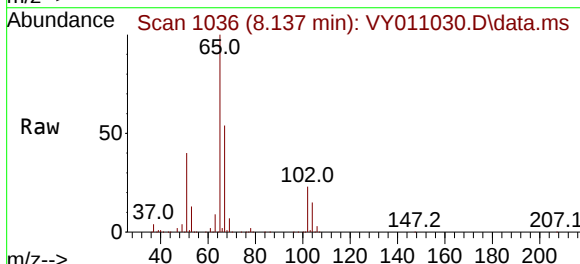
Instrument :
MSVOA_Y
ClientSampleId :
LSP-SS-07-00-20

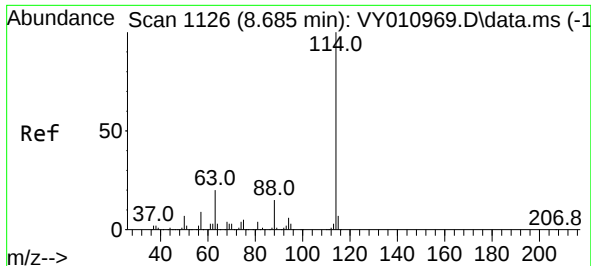
Tgt Ion: 56 Resp: 421211
Ion Ratio Lower Upper
56 100
69 33.8 26.7 40.1
84 94.1 67.2 100.8



#33
1,2-Dichloroethane-d4
Concen: 60.834 ug/l
RT: 8.137 min Scan# 1036
Delta R.T. 0.001 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

Tgt Ion: 65 Resp: 185105
Ion Ratio Lower Upper
65 100
67 54.1 0.0 99.4

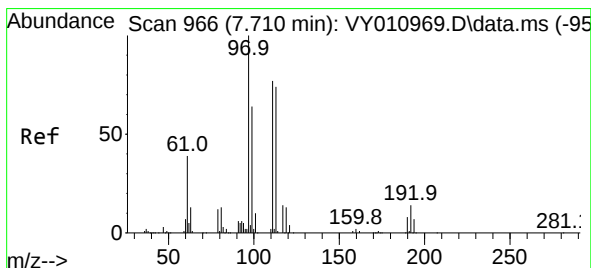
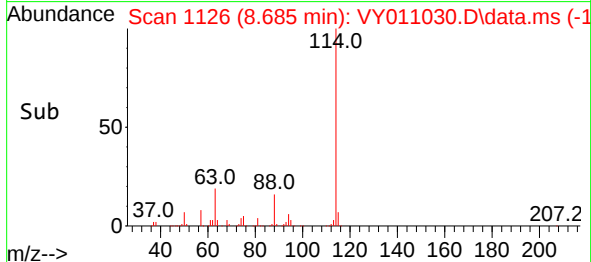
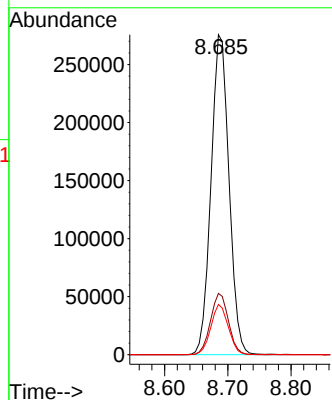
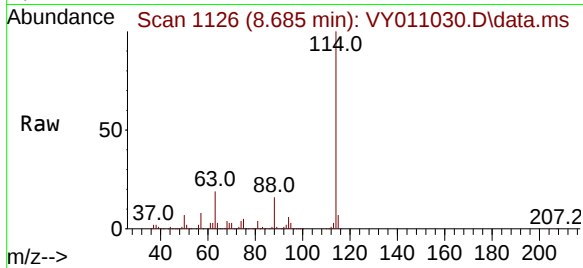




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.685 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

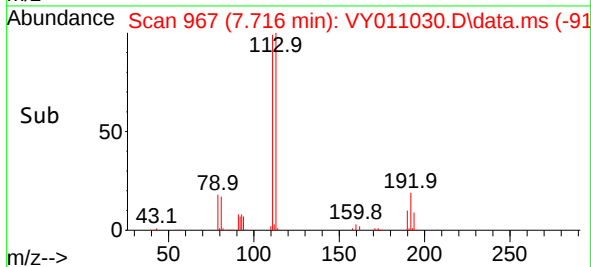
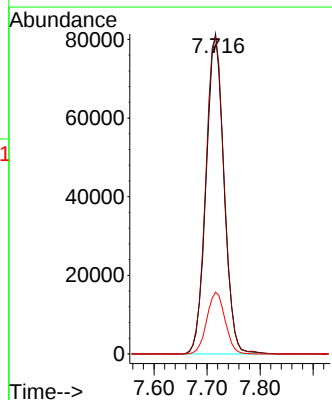
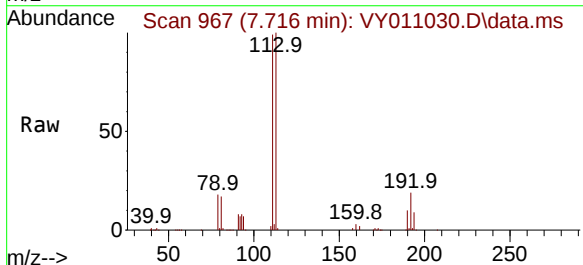
Instrument :
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ClientSampleId :
LSP-SS-07-00-20

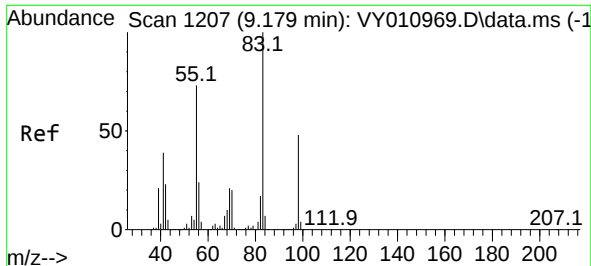
Tgt Ion:114 Resp: 545129
Ion Ratio Lower Upper
114 100
63 19.1 0.0 43.2
88 15.7 0.0 31.8



#35
Dibromofluoromethane
Concen: 63.179 ug/l
RT: 7.716 min Scan# 967
Delta R.T. 0.006 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

Tgt Ion:113 Resp: 190255
Ion Ratio Lower Upper
113 100
111 102.5 82.6 124.0
192 19.7 17.6 26.4

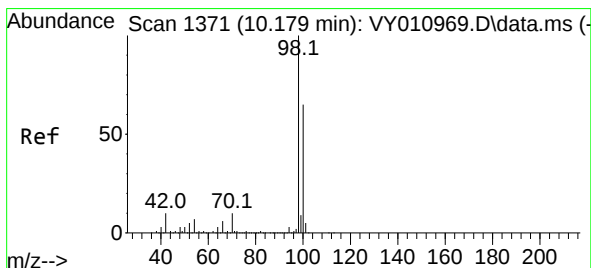
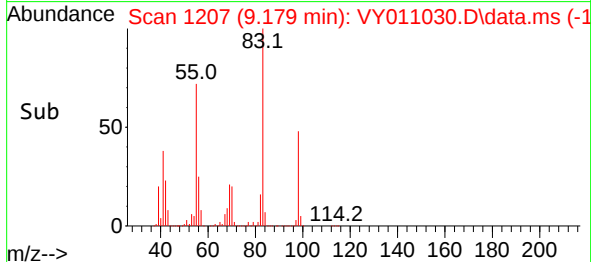
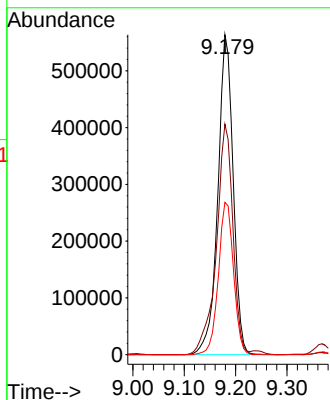
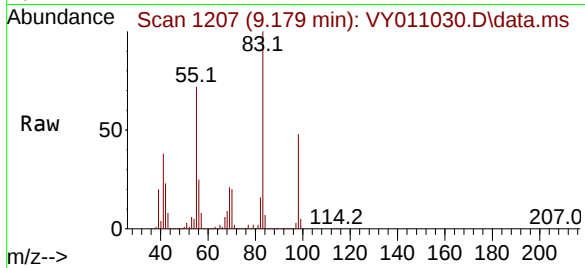




#39
Methylcyclohexane
Concen: 192.015 ug/l
RT: 9.179 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

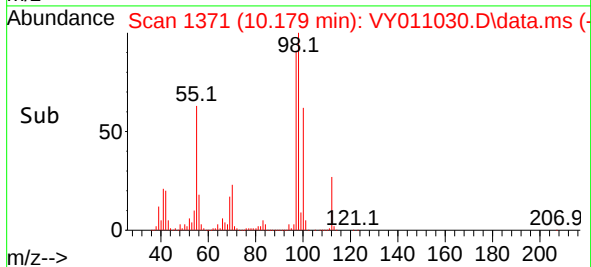
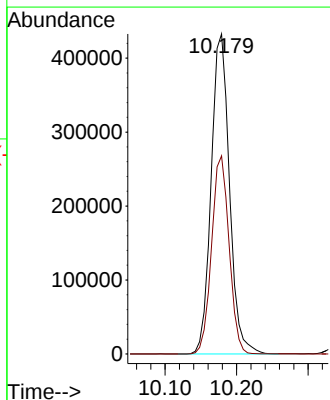
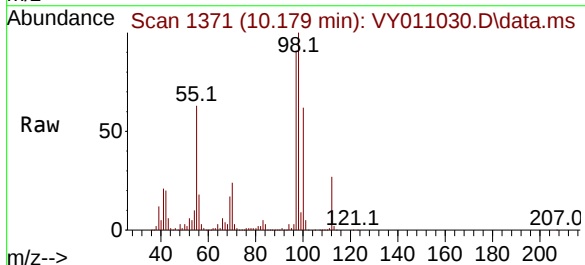
Instrument :
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ClientSampleId :
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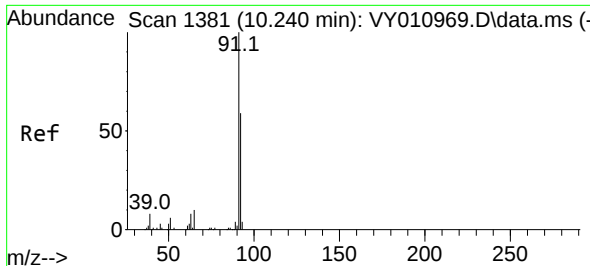
Tgt Ion: 83 Resp: 1167085
Ion Ratio Lower Upper
83 100
55 72.0 66.5 99.7
98 47.6 37.9 56.9



#50
Toluene-d8
Concen: 67.496 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

Tgt Ion: 98 Resp: 768260
Ion Ratio Lower Upper
98 100
100 59.2 50.2 75.2

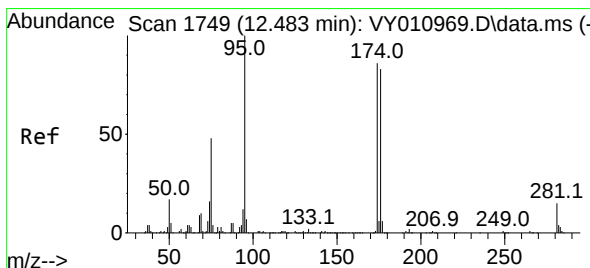
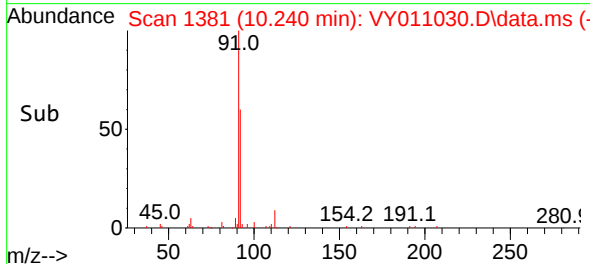
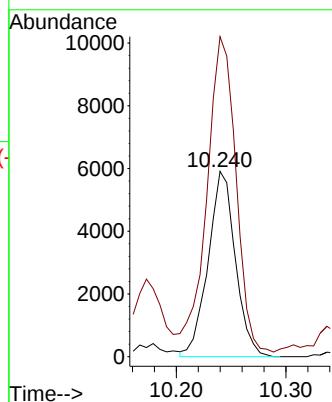
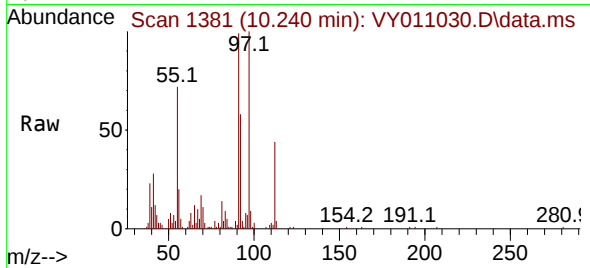




#52
Toluene
Concen: 1.103 ug/l
RT: 10.240 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

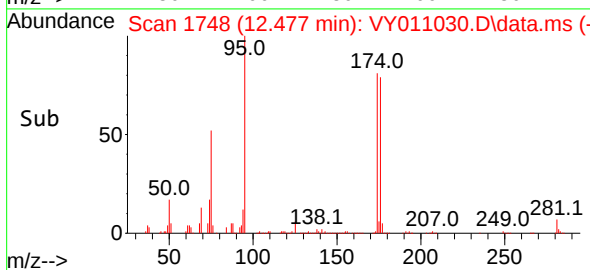
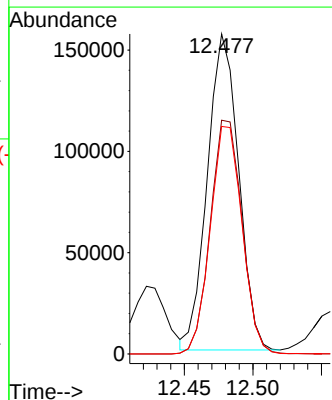
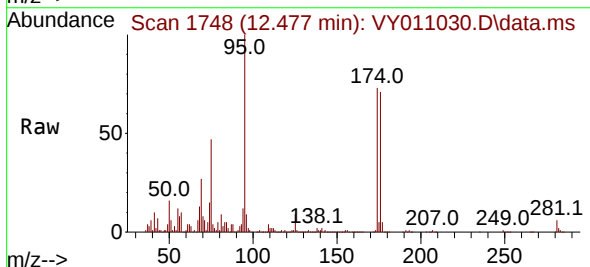
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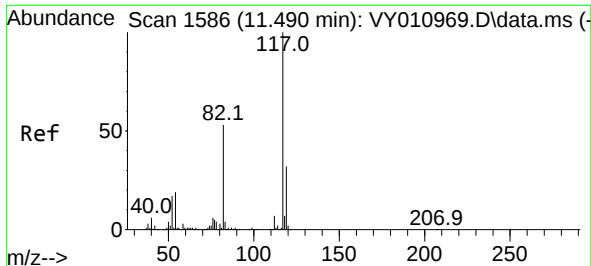
Tgt Ion: 92 Resp: 10205
Ion Ratio Lower Upper
92 100
91 181.7 142.6 213.8



#62
4-Bromofluorobenzene
Concen: 62.107 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

Tgt Ion: 95 Resp: 247411
Ion Ratio Lower Upper
95 100
174 75.6 0.0 177.0
176 73.6 0.0 175.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY011030.D

Acq: 20 Oct 2022 17:06

Instrument :

MSVOA_Y

ClientSampleId :

LSP-SS-07-00-20

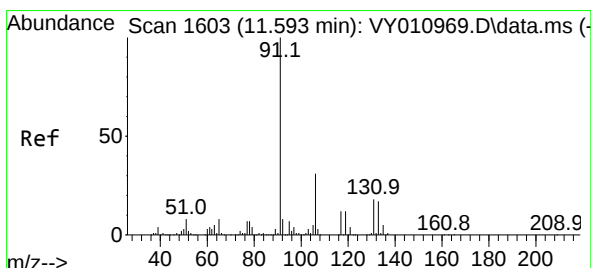
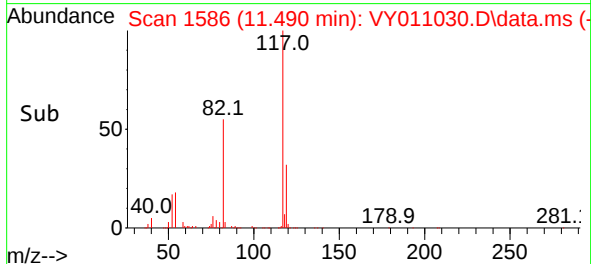
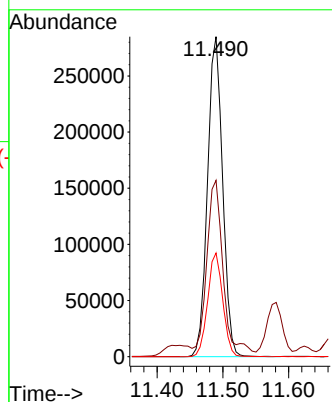
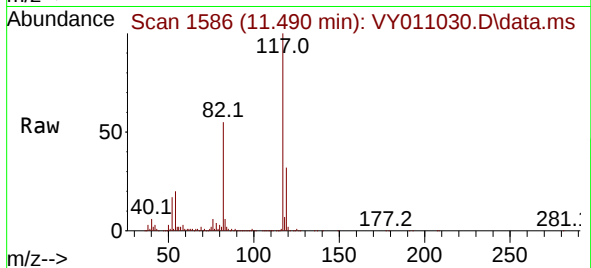
Tgt Ion:117 Resp: 455376

Ion Ratio Lower Upper

117 100

82 51.6 43.0 64.4

119 32.4 25.4 38.0



#67

Ethyl Benzene

Concen: 26.282 ug/l

RT: 11.587 min Scan# 1602

Delta R.T. -0.006 min

Lab File: VY011030.D

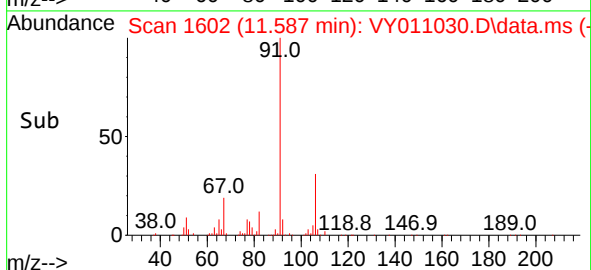
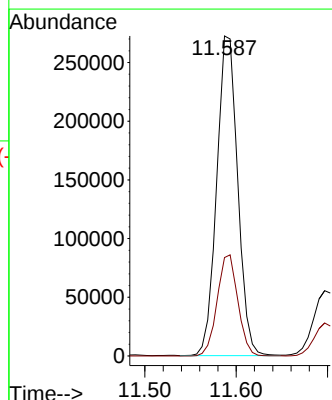
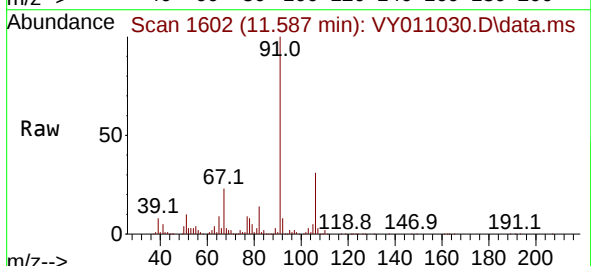
Acq: 20 Oct 2022 17:06

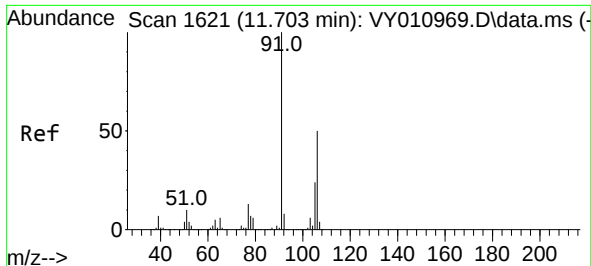
Tgt Ion: 91 Resp: 434699

Ion Ratio Lower Upper

91 100

106 30.8 24.5 36.7

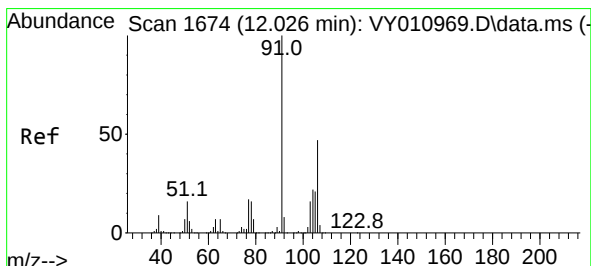
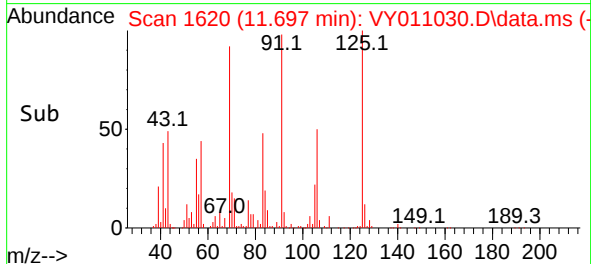
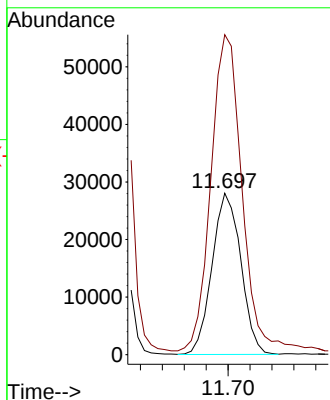
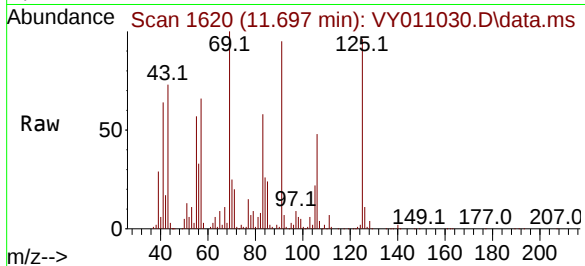




#68
m/p-Xylenes
Concen: 8.029 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

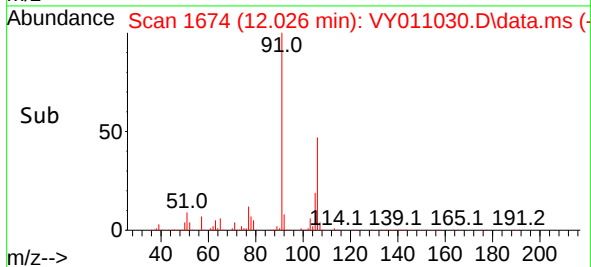
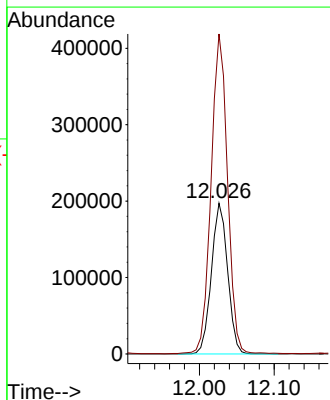
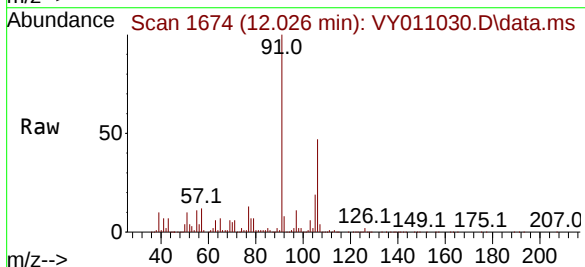
Instrument :
MSVOA_Y
ClientSampleId :
LSP-SS-07-00-20

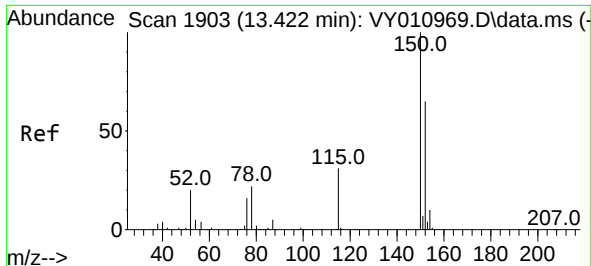
Tgt Ion:106 Resp: 51083
Ion Ratio Lower Upper
106 100
91 217.7 166.6 249.8



#69
o-Xylene
Concen: 49.308 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. 0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

Tgt Ion:106 Resp: 297898
Ion Ratio Lower Upper
106 100
91 215.1 110.3 331.0

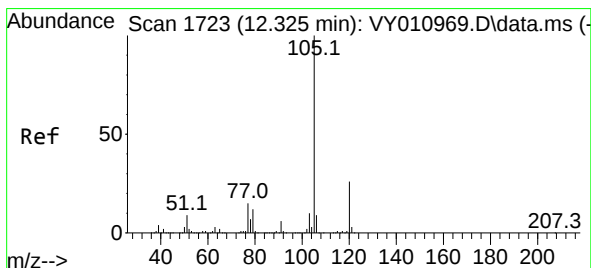
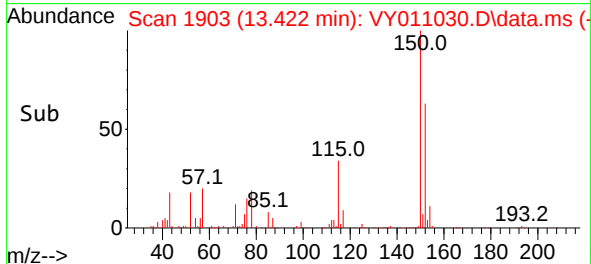
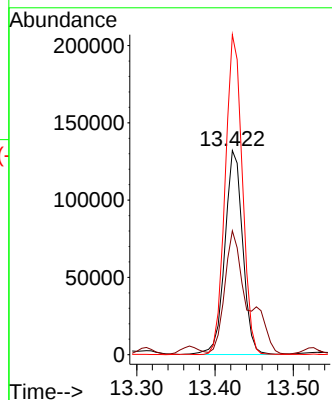
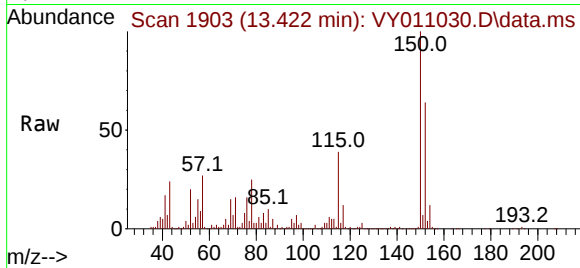




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

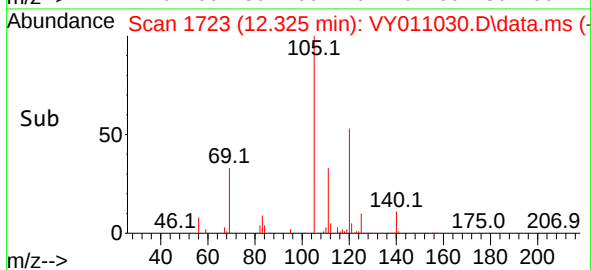
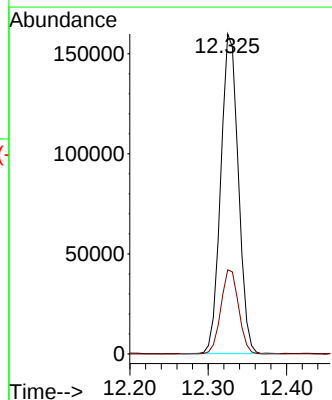
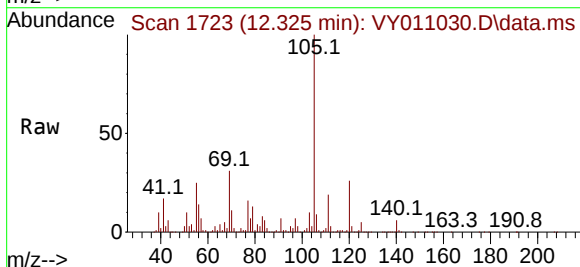
Instrument :
MSVOA_Y
ClientSampleId :
LSP-SS-07-00-20

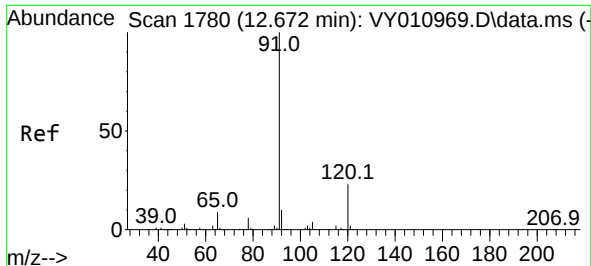
Tgt Ion:152 Resp: 208887
Ion Ratio Lower Upper
152 100
115 78.3 28.2 84.7
150 150.6 0.0 347.6



#73
Isopropylbenzene
Concen: 16.447 ug/l
RT: 12.325 min Scan# 1723
Delta R.T. -0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

Tgt Ion:105 Resp: 249607
Ion Ratio Lower Upper
105 100
120 26.5 13.4 40.2

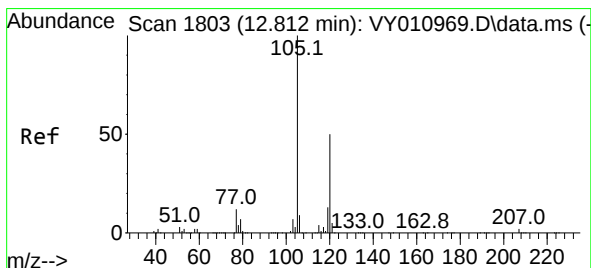
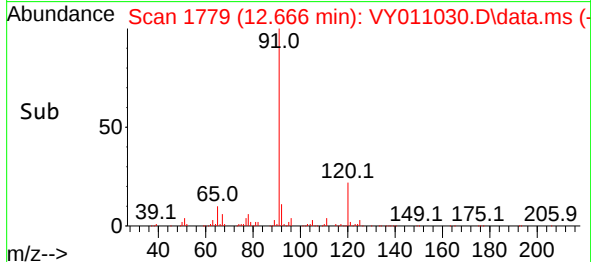
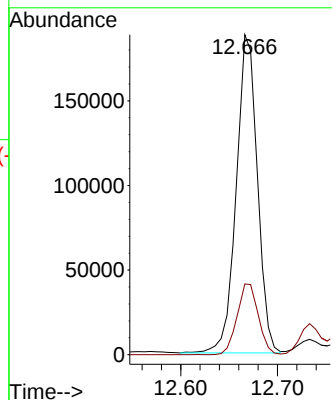
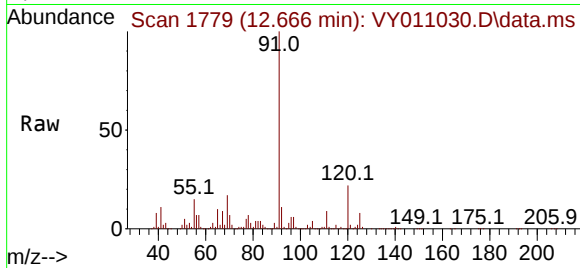




#78
n-propylbenzene
Concen: 15.489 ug/l
RT: 12.666 min Scan# 1780
Delta R.T. -0.006 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

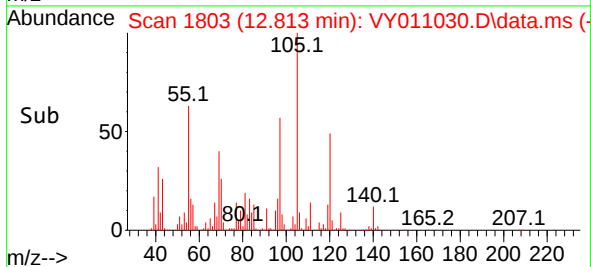
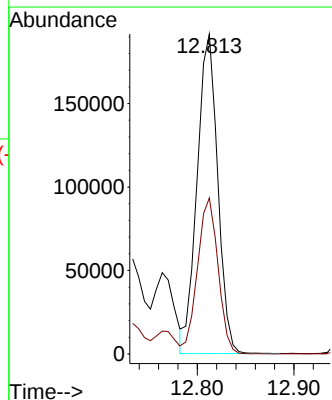
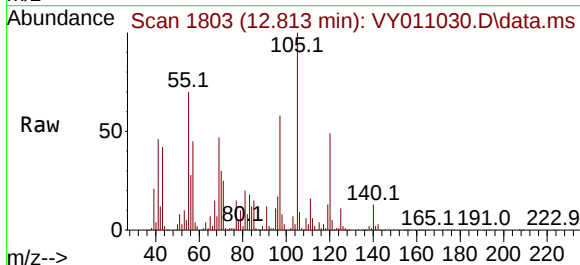
Instrument :
MSVOA_Y
ClientSampleId :
LSP-SS-07-00-20

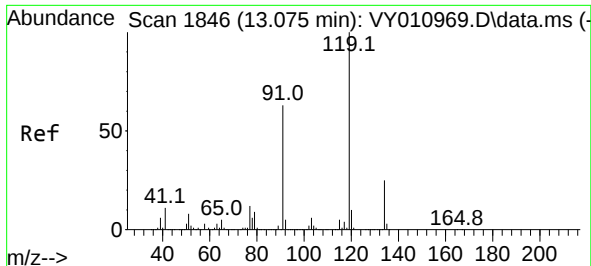
Tgt Ion: 91 Resp: 286001
Ion Ratio Lower Upper
91 100
120 22.4 11.3 33.9



#80
1,3,5-Trimethylbenzene
Concen: 22.361 ug/l
RT: 12.813 min Scan# 1803
Delta R.T. 0.001 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

Tgt Ion: 105 Resp: 283148
Ion Ratio Lower Upper
105 100
120 49.0 24.4 73.4

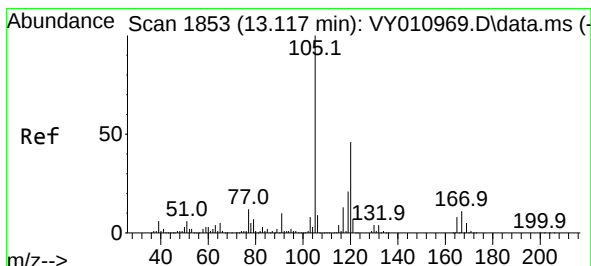
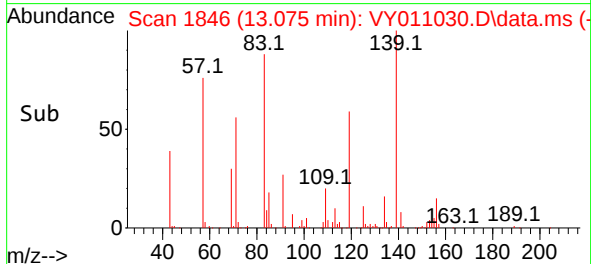
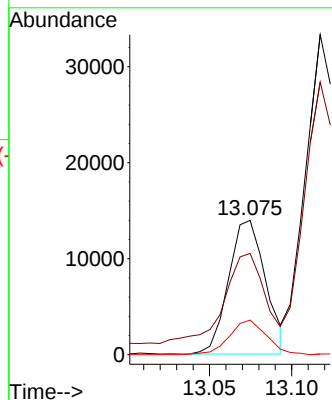
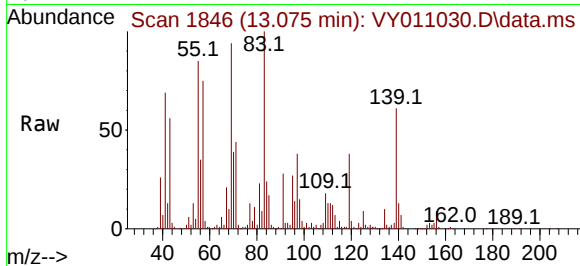




#83
tert-Butylbenzene
Concen: 1.989 ug/l
RT: 13.075 min Scan# 1846
Delta R.T. -0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

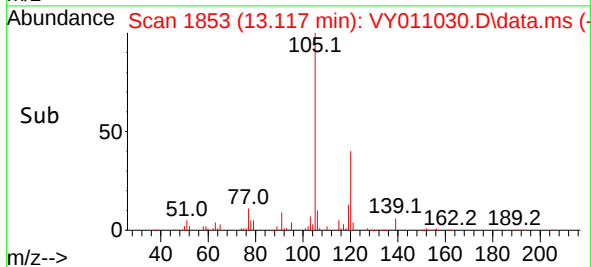
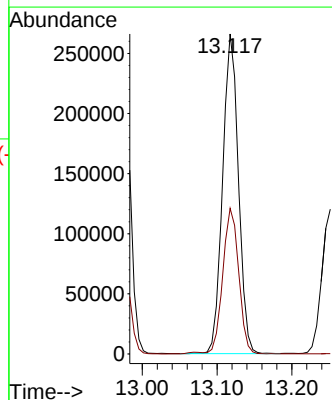
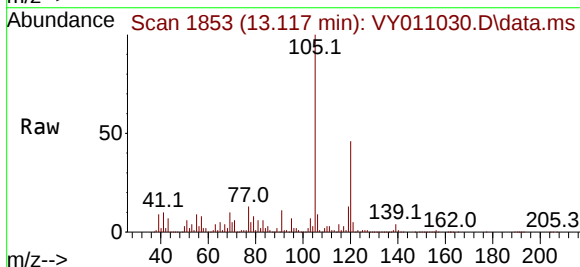
Instrument :
MSVOA_Y
ClientSampleId :
LSP-SS-07-00-20

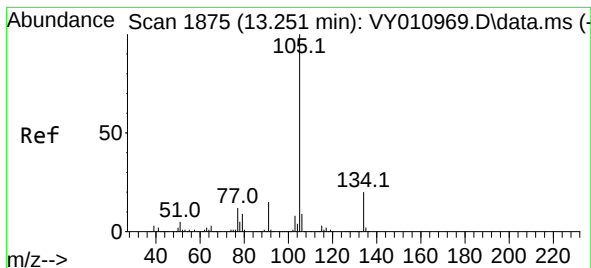
Tgt Ion:119 Resp: 21782
Ion Ratio Lower Upper
119 100
91 73.7 34.8 104.4
134 26.0 13.3 39.9



#84
1,2,4-Trimethylbenzene
Concen: 31.332 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY011030.D
Acq: 20 Oct 2022 17:06

Tgt Ion:105 Resp: 391210
Ion Ratio Lower Upper
105 100
120 45.8 22.3 66.9





#85

sec-Butylbenzene

Concen: 10.986 ug/l

RT: 13.251 min Scan# 1875

Delta R.T. 0.000 min

Lab File: VY011030.D

Acq: 20 Oct 2022 17:06

Instrument :

MSVOA_Y

ClientSampleId :

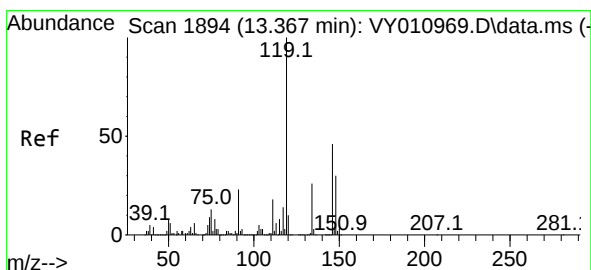
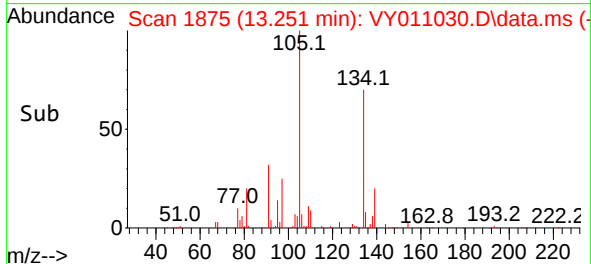
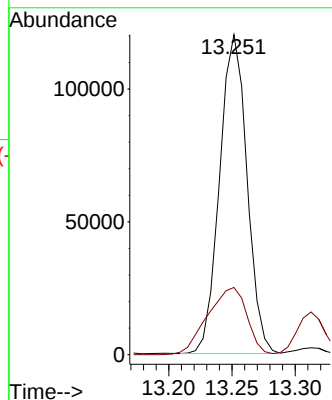
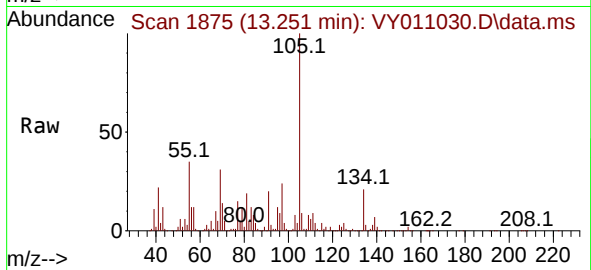
LSP-SS-07-00-20

Tgt Ion:105 Resp: 180761

Ion Ratio Lower Upper

105 100

134 30.2 10.2 30.4



#86

p-Isopropyltoluene

Concen: 6.744 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. 0.000 min

Lab File: VY011030.D

Acq: 20 Oct 2022 17:06

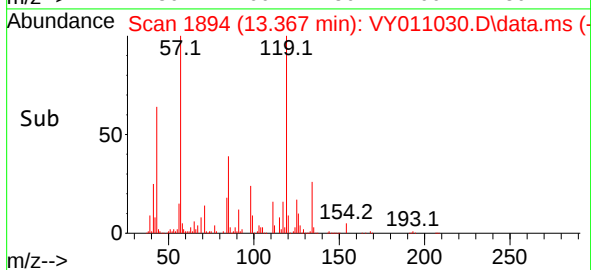
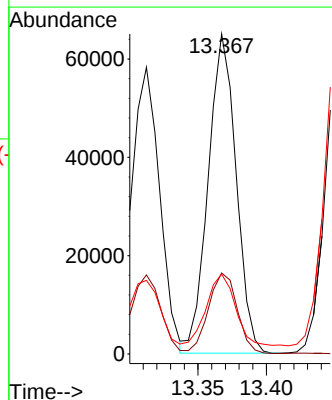
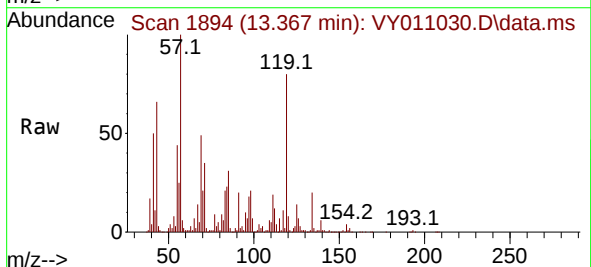
Tgt Ion:119 Resp: 92056

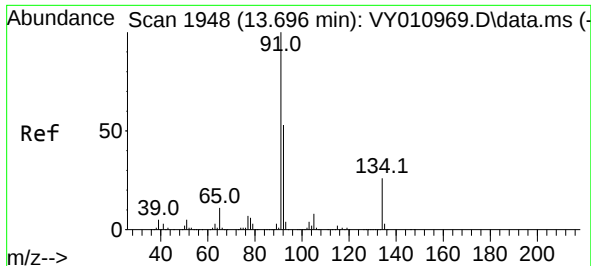
Ion Ratio Lower Upper

119 100

134 25.7 13.2 39.5

91 23.1 12.4 37.2





#89

n-Butylbenzene

Concen: 9.339 ug/l

RT: 13.690 min Scan# 1948

Delta R.T. -0.006 min

Lab File: VY011030.D

Acq: 20 Oct 2022 17:06

Instrument :

MSVOA_Y

ClientSampleId :

LSP-SS-07-00-20

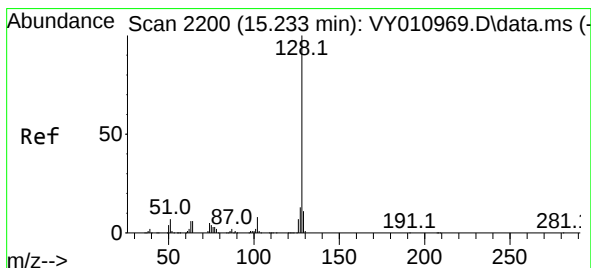
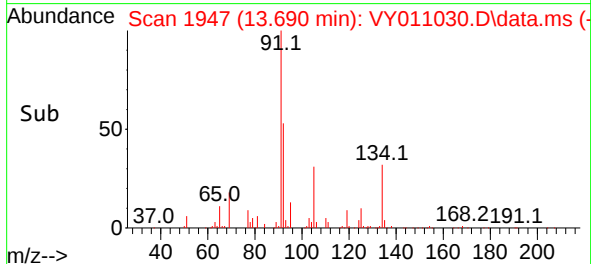
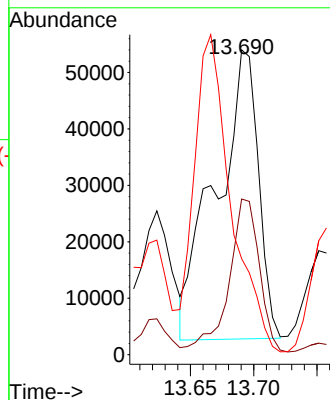
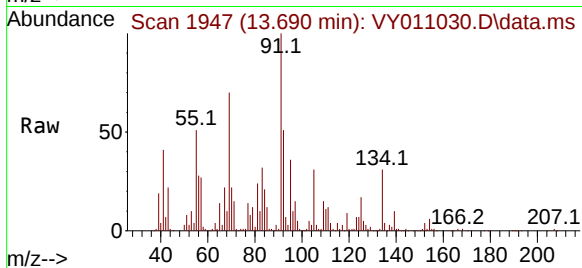
Tgt Ion: 91 Resp: 119117

Ion Ratio Lower Upper

91 100

92 38.1 26.3 78.9

134 0.0 13.0 38.9#



#95

Naphthalene

Concen: 72.952 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. -0.000 min

Lab File: VY011030.D

Acq: 20 Oct 2022 17:06

Tgt Ion:128 Resp: 562435

Ion Ratio Lower Upper

128 100

127 13.2 11.0 16.4

129 11.5 8.4 12.6

