

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091523\
 Data File : VY015604.D
 Acq On : 16 Sep 2023 05:54
 Operator : SY/MD
 Sample : 04419-18
 Misc : 6.35g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 16 07:02:40 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y082923S.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 31 20:01:47 2023
 Response via : Initial Calibration

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

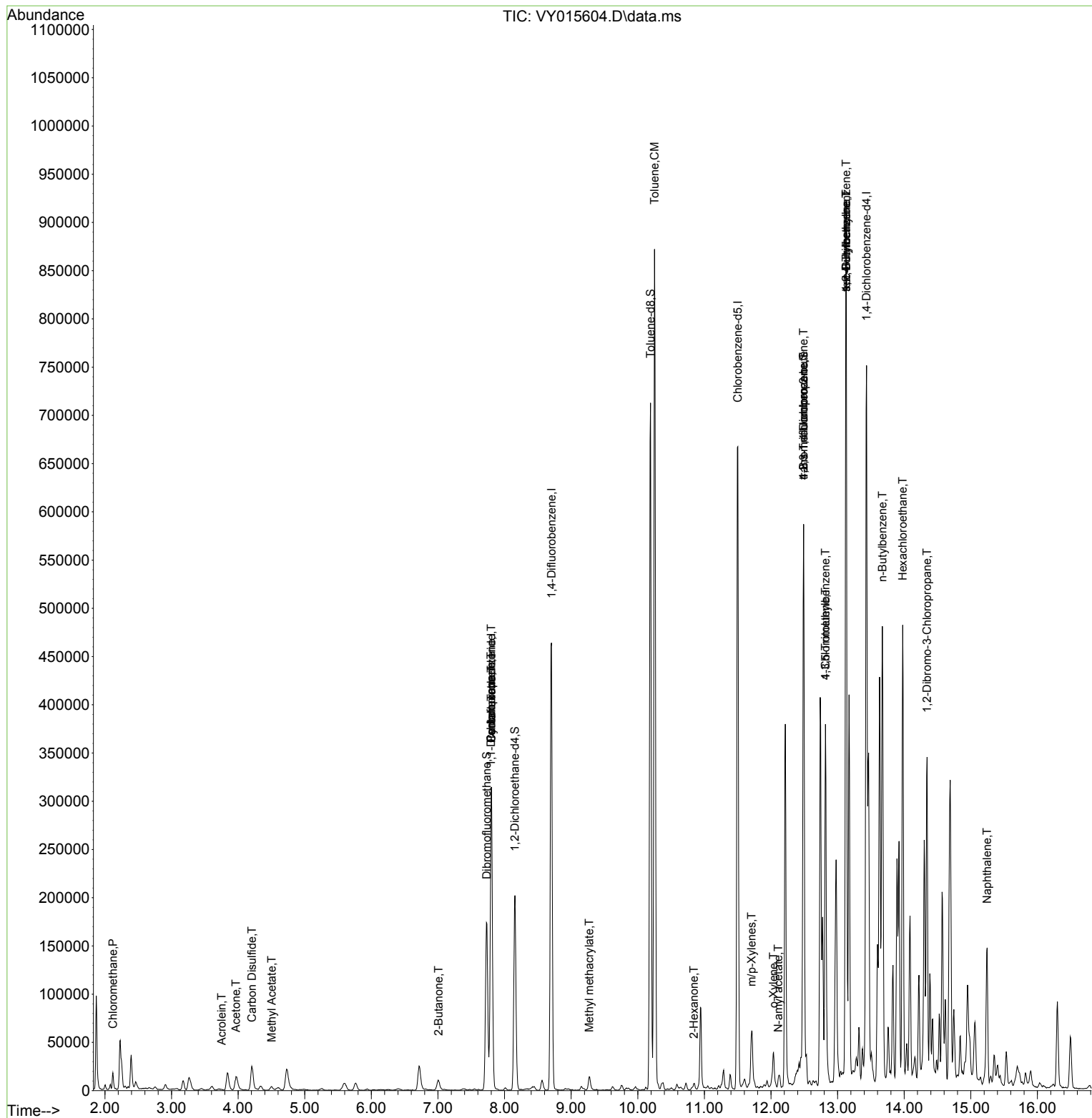
Internal Standards						
1) Pentafluorobenzene	7.801	168	245075	50.000	ug/l	0.02
34) 1,4-Difluorobenzene	8.703	114	403292	50.000	ug/l	0.02
63) Chlorobenzene-d5	11.502	117	369540	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.434	152	184735	50.000	ug/l	0.01
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	154637	58.861	ug/l	0.02
Spiked Amount	50.000	Range	50 - 163	Recovery	= 117.720%	
35) Dibromofluoromethane	7.734	113	126878	54.621	ug/l	0.02
Spiked Amount	50.000	Range	54 - 147	Recovery	= 109.240%	
50) Toluene-d8	10.191	98	466507	55.457	ug/l	0.01
Spiked Amount	50.000	Range	58 - 134	Recovery	= 110.920%	
62) 4-Bromofluorobenzene	12.489	95	174375	55.839	ug/l	0.01
Spiked Amount	50.000	Range	30 - 143	Recovery	= 111.680%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	14505	5.127	ug/l	97
11) Tert butyl alcohol	4.985	59	1527	Below Cal	#	93
13) Acrolein	3.753	56	1227	13.249	ug/l #	14
16) Acetone	3.967	43	27129	24.740	ug/l	97
17) Carbon Disulfide	4.204	76	50306	6.907	ug/l	100
18) Methyl Acetate	4.503	43	8293	2.088	ug/l	97
20) Methylene Chloride	4.735	84	16724	Below Cal		90
25) 2-Butanone	7.009	43	12140	7.806	ug/l	94
31) Cyclohexane	7.801	56	5138	1.101	ug/l #	6
36) 1,1-Dichloropropene	7.795	75	18800	4.609	ug/l #	50
38) Carbon Tetrachloride	7.801	117	23761	5.641	ug/l #	16
48) Methyl methacrylate	9.270	41	4506	1.805	ug/l #	42
52) Toluene	10.252	92	357249	48.981	ug/l	95
59) 2-Hexanone	10.843	43	4187	1.765	ug/l	96
68) m/p-Xylenes	11.709	106	17658	3.186	ug/l	95
69) o-Xylene	12.038	106	8626	1.629	ug/l	98
74) N-amyl acetate	12.111	43	6417	1.376	ug/l #	46
76) 1,2,3-Trichloropropane	12.489	75	91612	37.396	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.819	105	178627	15.390	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.489	75	91612	82.492	ug/l #	10
82) 4-Chlorotoluene	12.819	91	19627	2.005	ug/l #	40
83) tert-Butylbenzene	13.130	119	59323	5.836	ug/l #	66
84) 1,2,4-Trimethylbenzene	13.130	105	484880	42.076	ug/l	98
85) sec-Butylbenzene	13.130	105	484880	31.979	ug/l #	56
89) n-Butylbenzene	13.672	91	48740	4.075	ug/l #	1
90) Hexachloroethane	13.977	117	21321	9.381	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.343	75	1199	1.830	ug/l #	4
95) Naphthalene	15.245	128	115897	12.582	ug/l	99

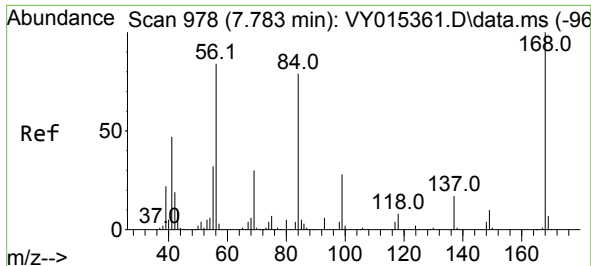
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091523\
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Misc : 6.35g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 51 Sample Multiplier: 1

Instrument :
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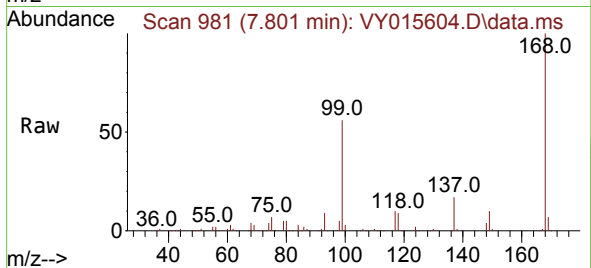
Quant Time: Sep 16 07:02:40 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y082923S.M
Quant Title : SW846 8260
QLast Update : Thu Aug 31 20:01:47 2023
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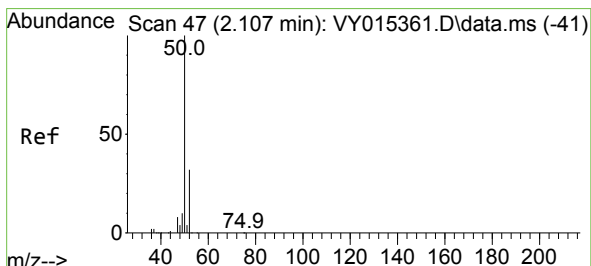
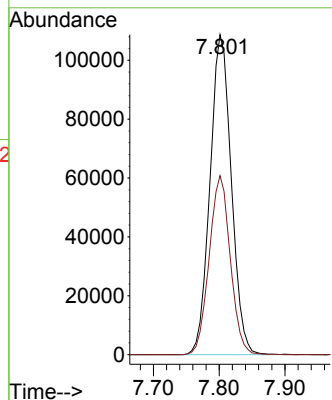
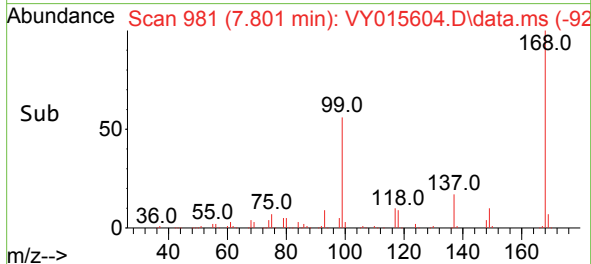


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Instrument :
MSVOA_Y
ClientSampleId :

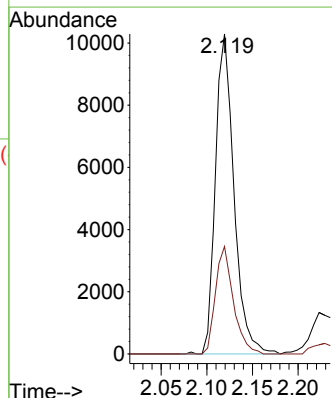
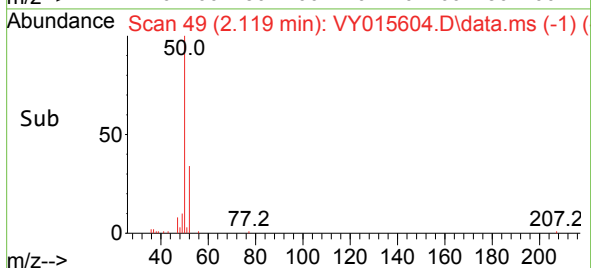
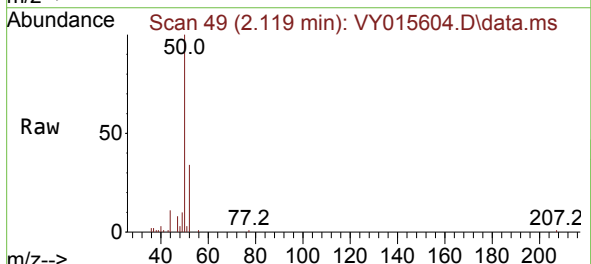


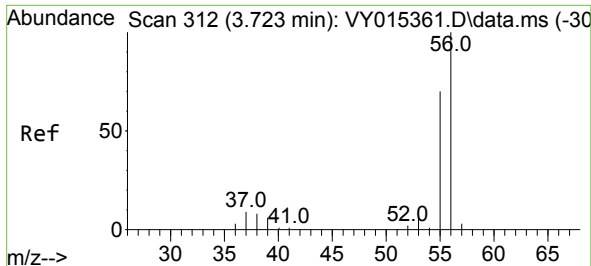
Tgt Ion:168 Resp: 245075
Ion Ratio Lower Upper
168 100
99 56.0 43.4 65.0



#3
Chloromethane
Concen: 5.127 ug/l
RT: 2.119 min Scan# 49
Delta R.T. 0.012 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Tgt Ion: 50 Resp: 14505
Ion Ratio Lower Upper
50 100
52 33.6 25.4 38.2





#13

Acrolein

Concen: 13.249 ug/l

RT: 3.753 min Scan# 31

Delta R.T. 0.030 min

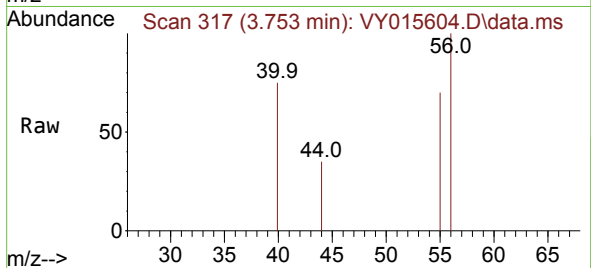
Lab File: VY015604.D

Acq: 16 Sep 2023 05:54

Instrument :

MSVOA_Y

ClientSampleId :

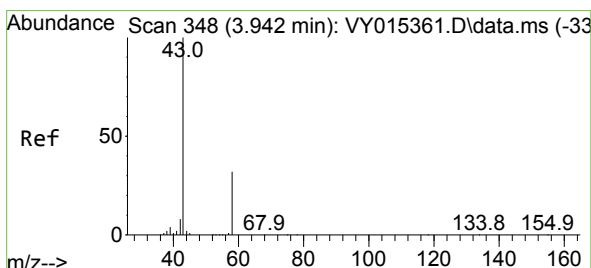
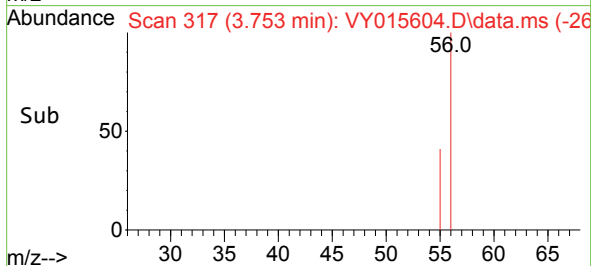
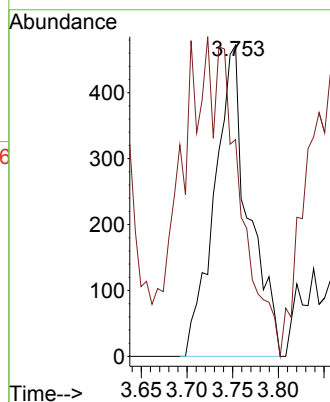


Tgt Ion: 56 Resp: 1227

Ion Ratio Lower Upper

56 100

55 0.0 57.0 85.4#



#16

Acetone

Concen: 24.740 ug/l

RT: 3.967 min Scan# 352

Delta R.T. 0.025 min

Lab File: VY015604.D

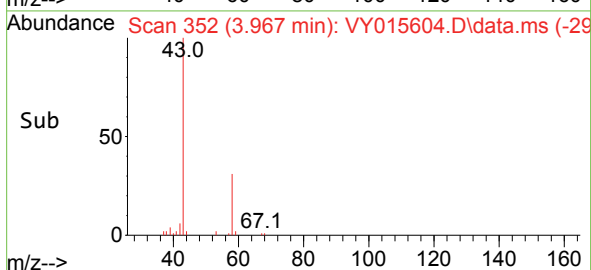
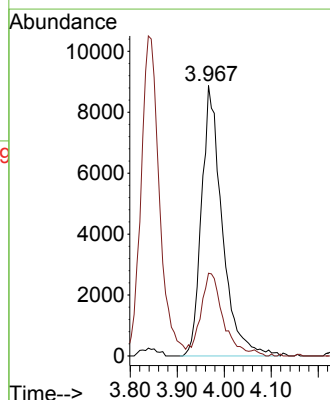
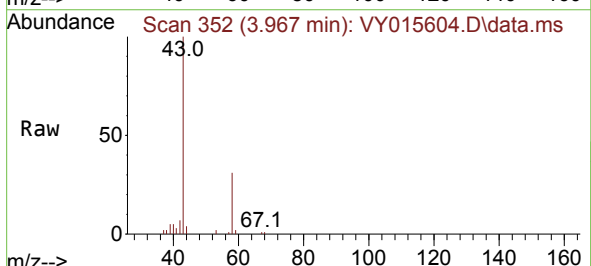
Acq: 16 Sep 2023 05:54

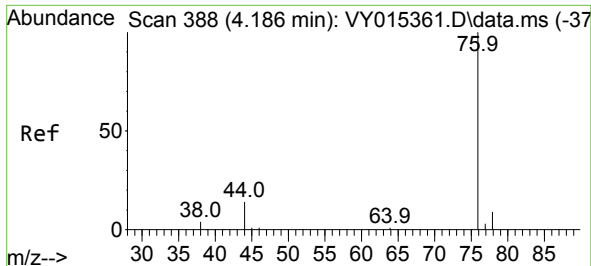
Tgt Ion: 43 Resp: 27129

Ion Ratio Lower Upper

43 100

58 29.9 22.7 34.1

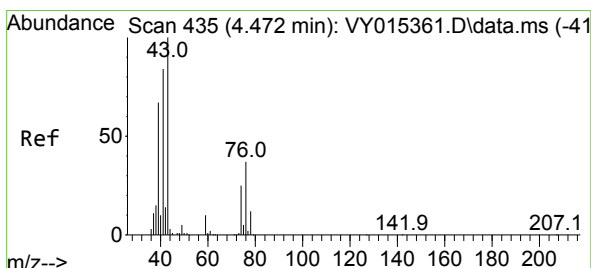
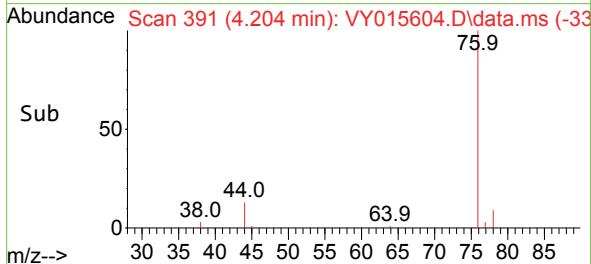
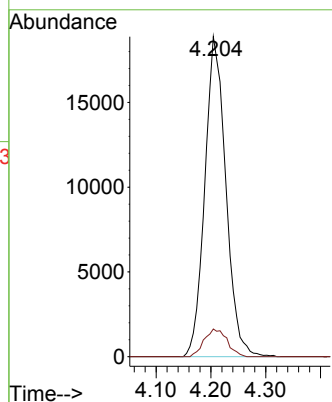
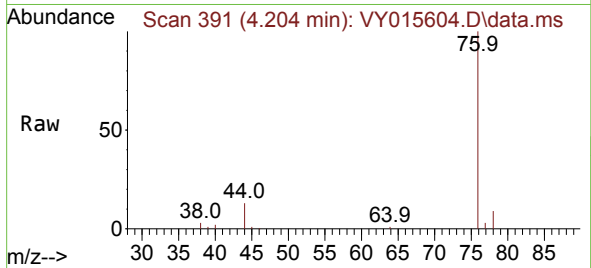




#17
Carbon Disulfide
Concen: 6.907 ug/l
RT: 4.204 min Scan# 391
Delta R.T. 0.018 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

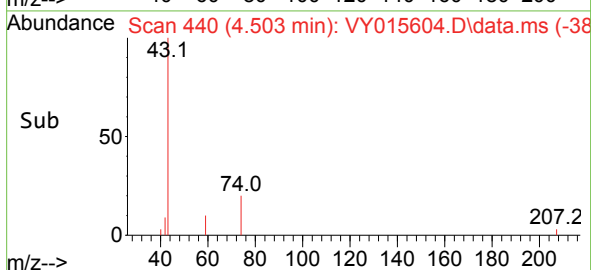
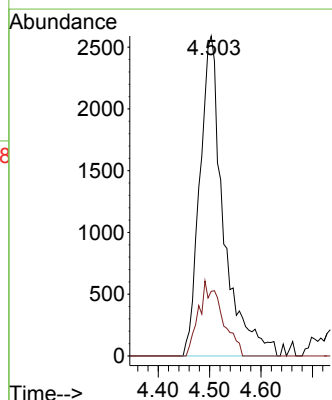
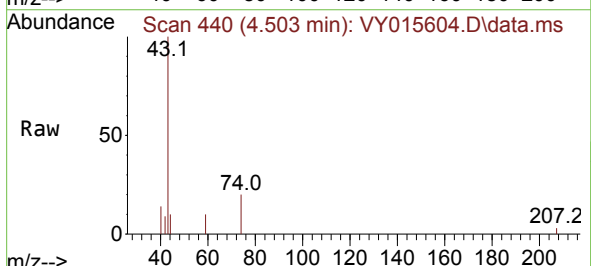
Instrument :
MSVOA_Y
ClientSampleId :

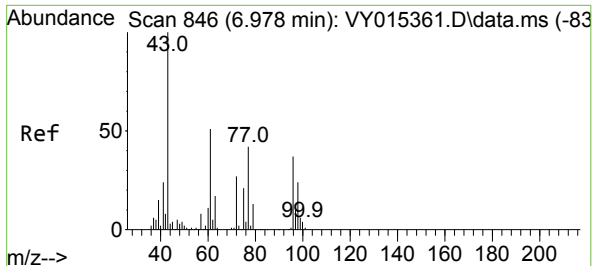
Tgt Ion: 76 Resp: 50306
Ion Ratio Lower Upper
76 100
78 8.7 7.0 10.4



#18
Methyl Acetate
Concen: 2.088 ug/l
RT: 4.503 min Scan# 440
Delta R.T. 0.031 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

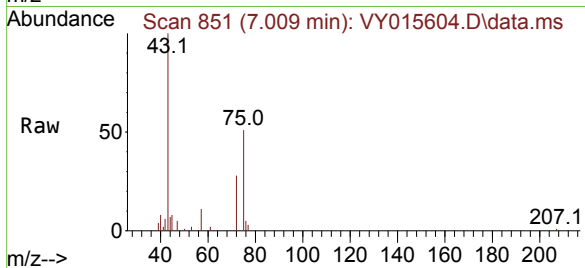
Tgt Ion: 43 Resp: 8293
Ion Ratio Lower Upper
43 100
74 23.2 17.4 26.0



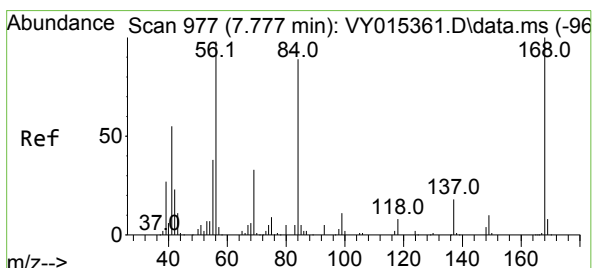
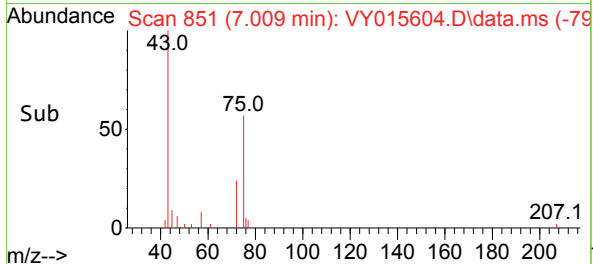
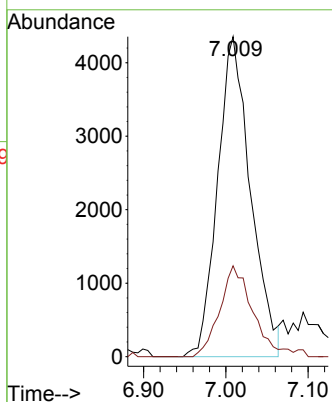


#25
2-Butanone
Concen: 7.806 ug/l
RT: 7.009 min Scan# 81
Delta R.T. 0.031 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Instrument :
MSVOA_Y
ClientSampleId :

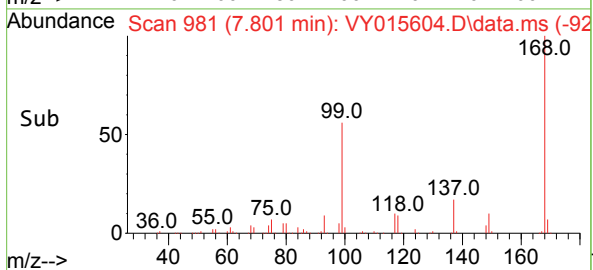
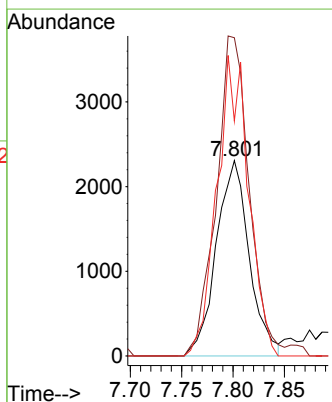
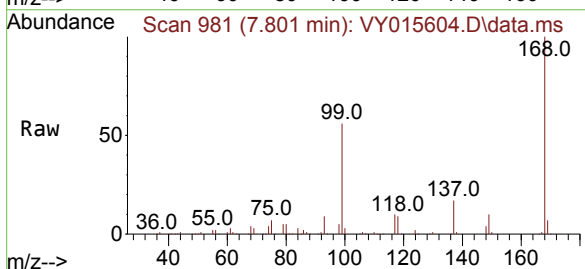


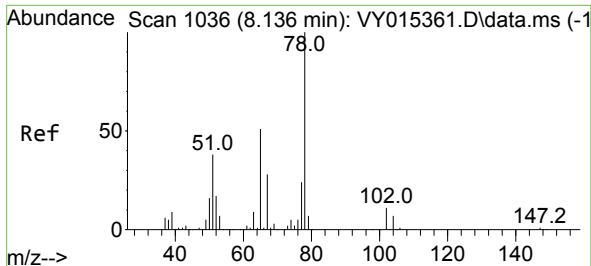
Tgt Ion: 43 Resp: 12140
Ion Ratio Lower Upper
43 100
72 28.4 20.5 30.7



#31
Cyclohexane
Concen: 1.101 ug/l
RT: 7.801 min Scan# 981
Delta R.T. 0.018 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Tgt Ion: 56 Resp: 5138
Ion Ratio Lower Upper
56 100
69 162.9 27.8 41.6#
84 120.2 66.4 99.6#

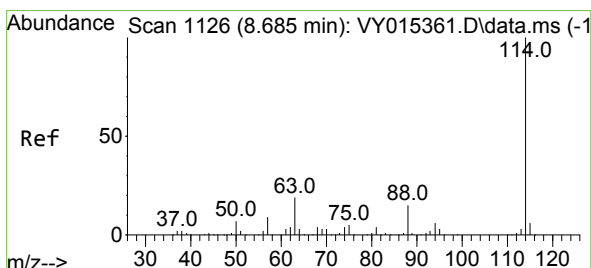
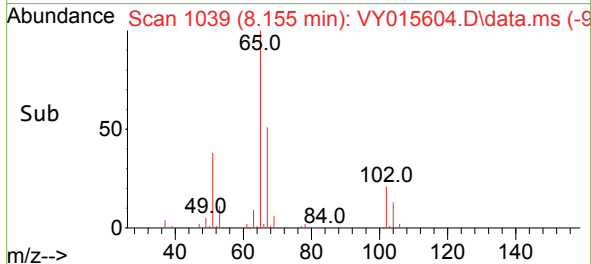
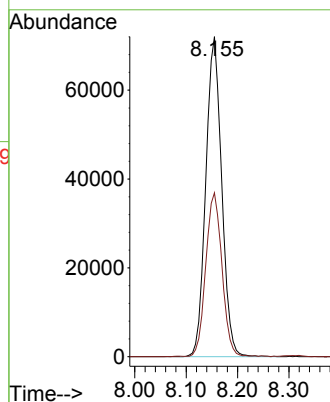
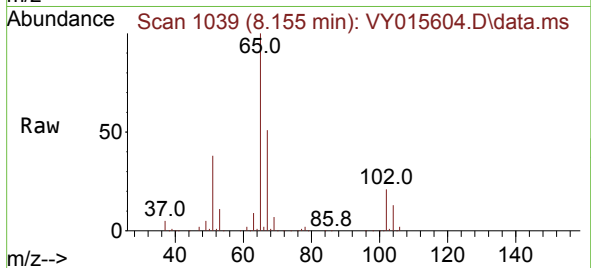




#33
 1,2-Dichloroethane-d4
 Concen: 58.861 ug/l
 RT: 8.155 min Scan# 1109
 Delta R.T. 0.018 min
 Lab File: VY015604.D
 Acq: 16 Sep 2023 05:54

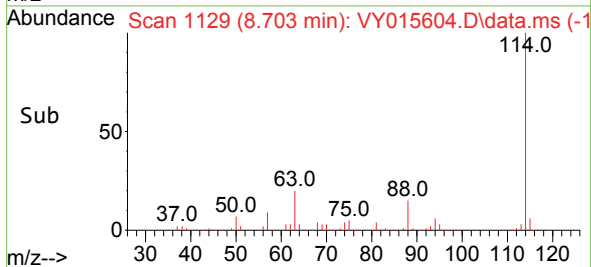
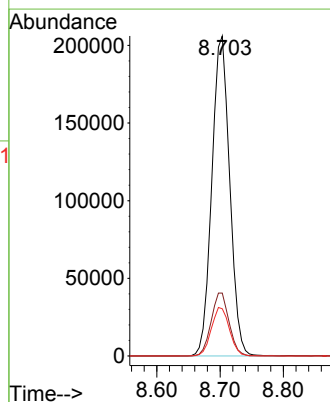
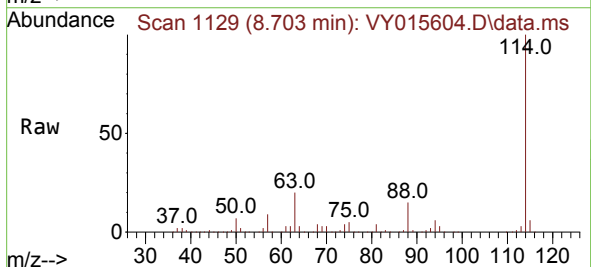
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 MSVOA_Y
 ClientSampleId :

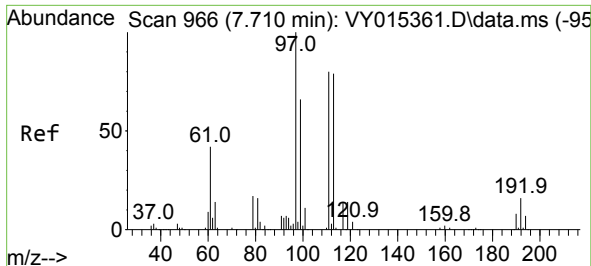
Tgt Ion: 65 Resp: 154637
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.703 min Scan# 1129
 Delta R.T. 0.018 min
 Lab File: VY015604.D
 Acq: 16 Sep 2023 05:54

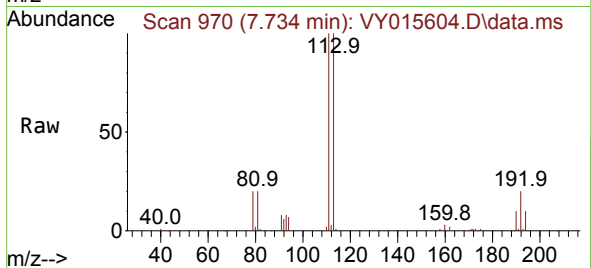
Tgt Ion: 114 Resp: 403292
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 42.4
 88 14.8 0.0 30.6



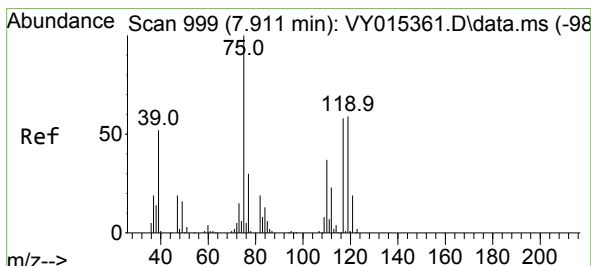
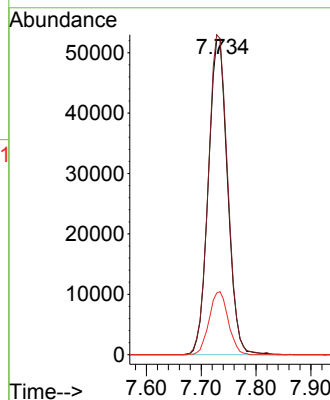
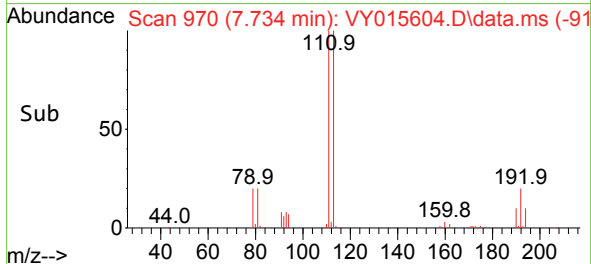


#35
Dibromofluoromethane
Concen: 54.621 ug/l
RT: 7.734 min Scan# 91
Delta R.T. 0.018 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Instrument :
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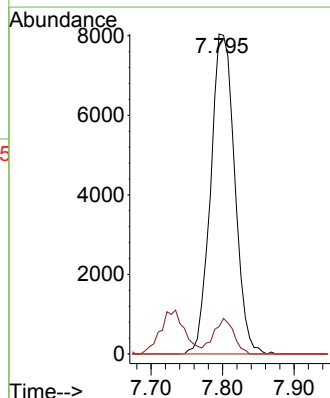
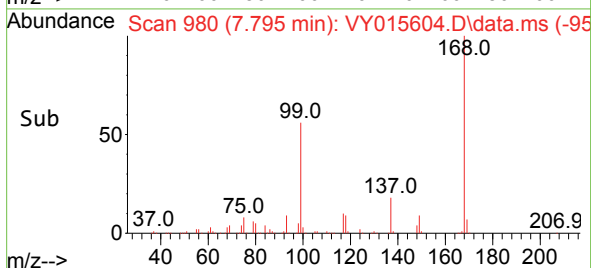
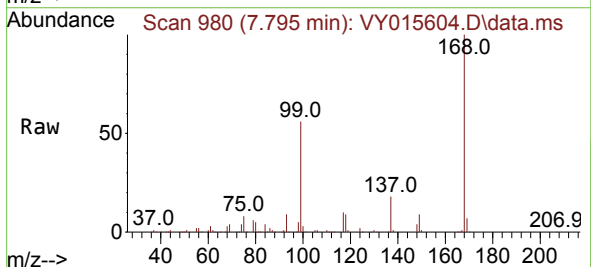


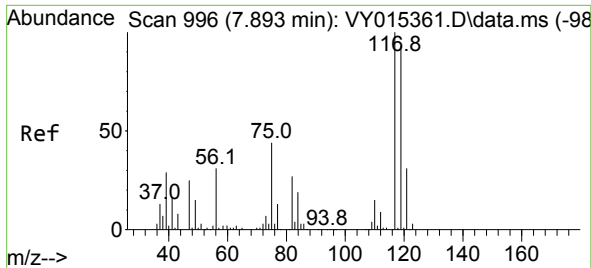
Tgt Ion:113 Resp: 126878
Ion Ratio Lower Upper
113 100
111 102.5 81.3 121.9
192 19.9 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.609 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.116 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

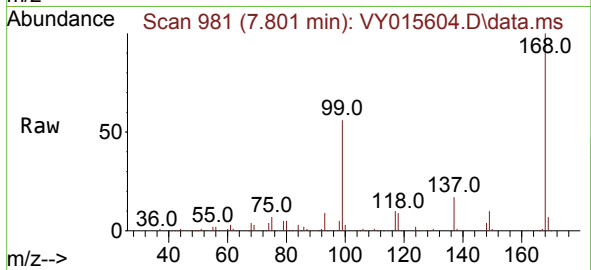
Tgt Ion: 75 Resp: 18800
Ion Ratio Lower Upper
75 100
110 9.3 17.8 53.5#
77 0.0 24.4 36.6#



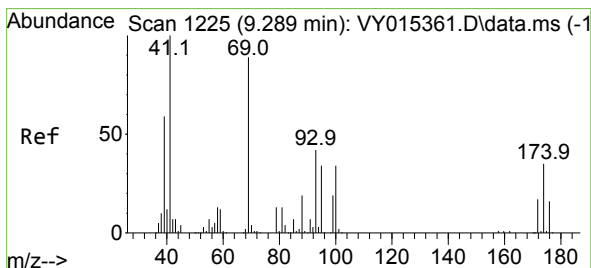
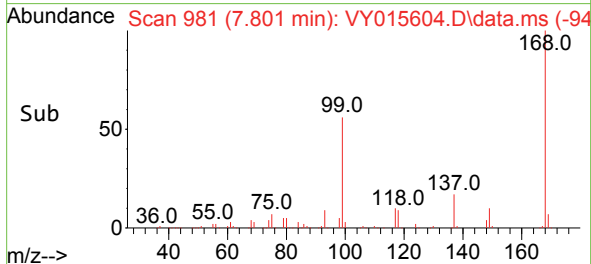
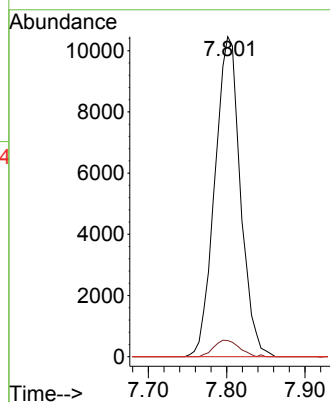


#38
Carbon Tetrachloride
Concen: 5.641 ug/l
RT: 7.801 min Scan# 91
Delta R.T. -0.091 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Instrument :
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ClientSampleId :

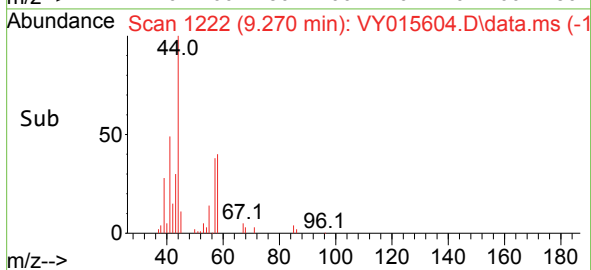
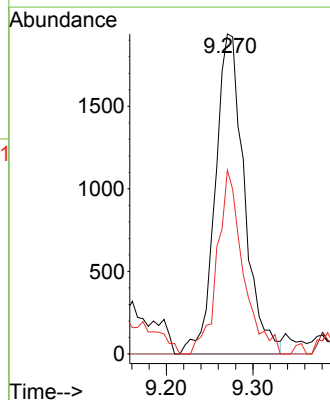
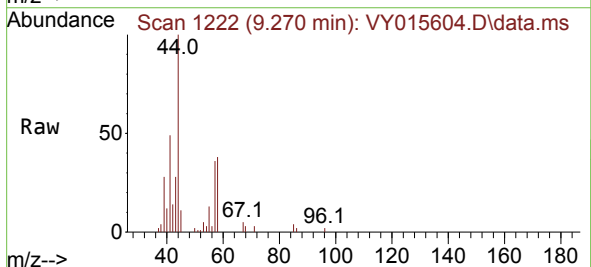


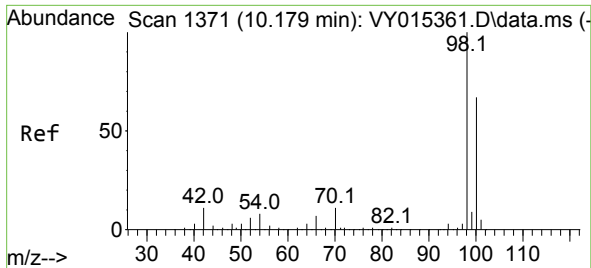
Tgt Ion:117 Resp: 23761
Ion Ratio Lower Upper
117 100
119 5.0 76.4 114.6#
121 0.0 25.8 38.6#



#48
Methyl methacrylate
Concen: 1.805 ug/l
RT: 9.270 min Scan# 1222
Delta R.T. -0.018 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Tgt Ion: 41 Resp: 4506
Ion Ratio Lower Upper
41 100
69 0.0 64.5 96.7#
39 51.1 50.8 76.2

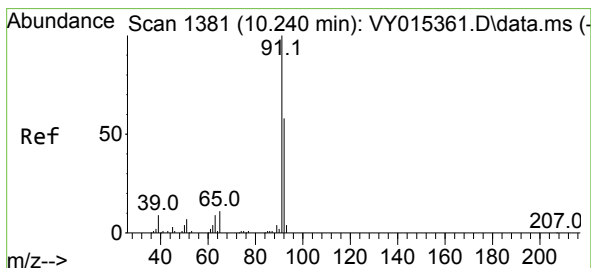
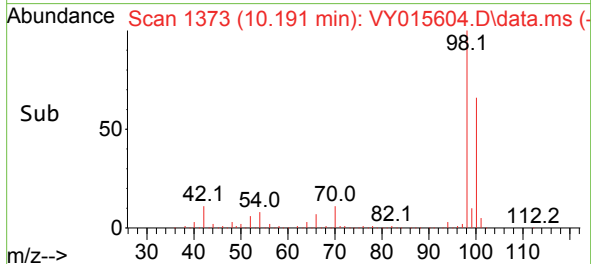
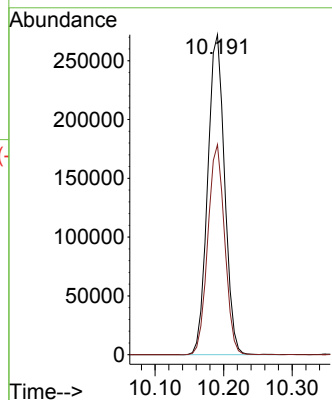
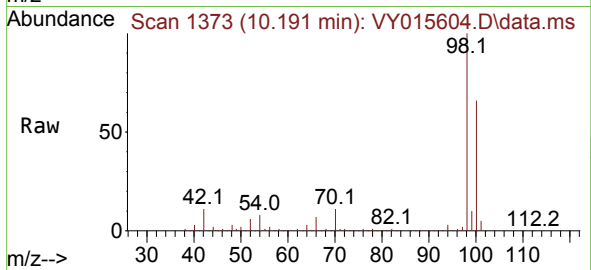




#50
Toluene-d8
Concen: 55.457 ug/l
RT: 10.191 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

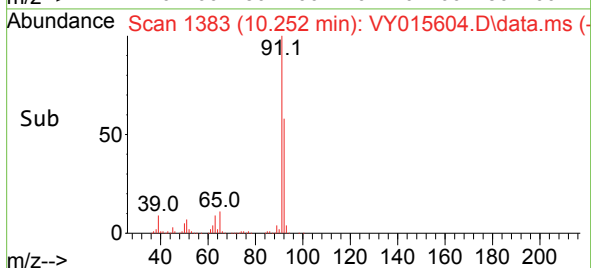
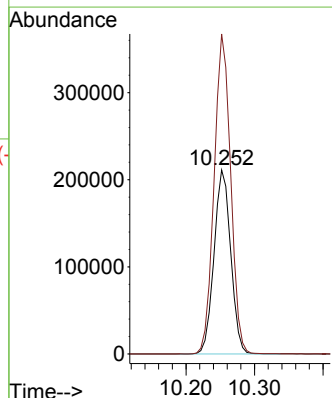
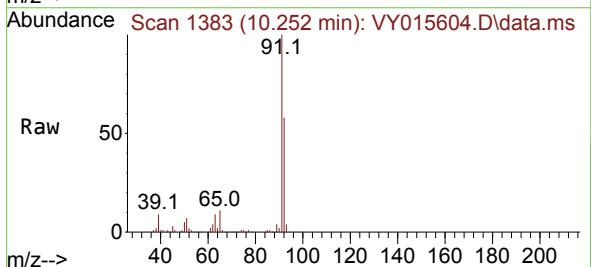
Instrument :
MSVOA_Y
ClientSampleId :

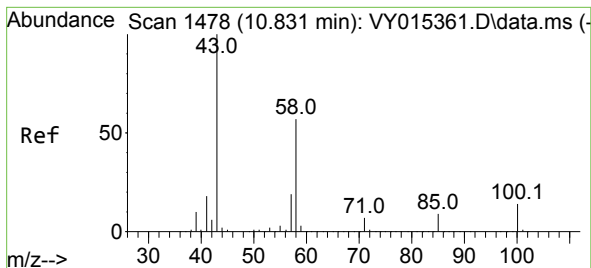
Tgt Ion: 98 Resp: 466507
Ion Ratio Lower Upper
98 100
100 65.3 50.1 75.1



#52
Toluene
Concen: 48.981 ug/l
RT: 10.252 min Scan# 1383
Delta R.T. 0.012 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Tgt Ion: 92 Resp: 357249
Ion Ratio Lower Upper
92 100
91 172.8 143.8 215.6

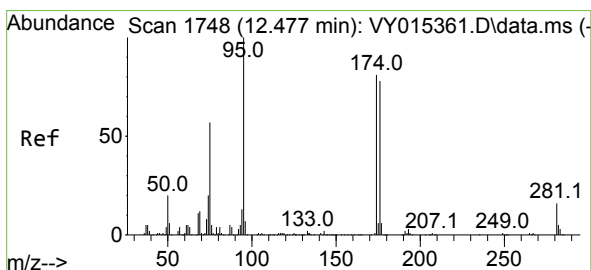
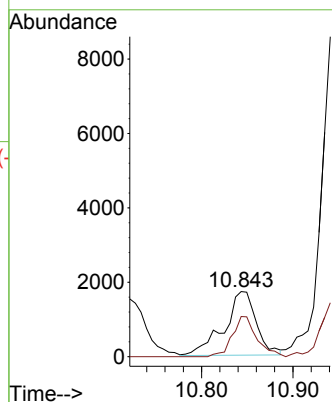
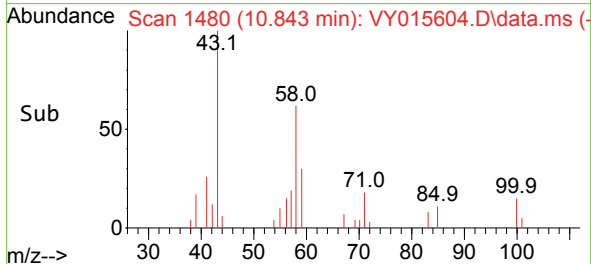
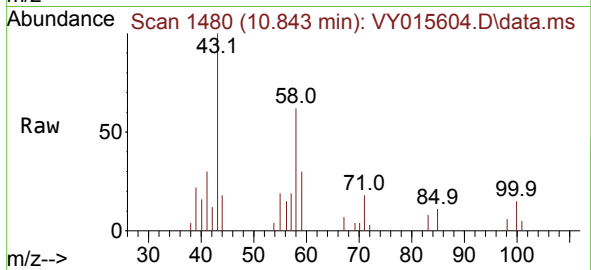




#59
2-Hexanone
Concen: 1.765 ug/l
RT: 10.843 min Scan# 1478
Delta R.T. 0.012 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

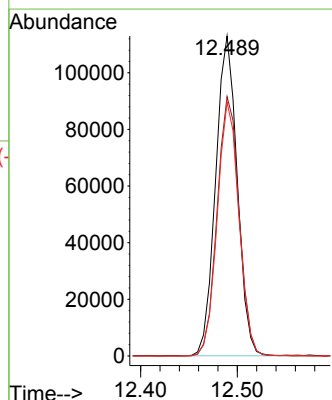
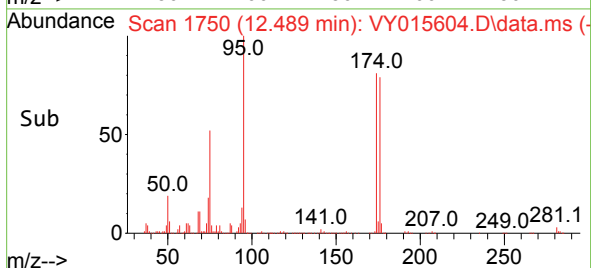
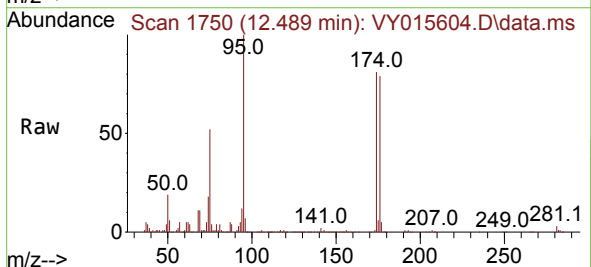
Instrument :
MSVOA_Y
ClientSampleId :

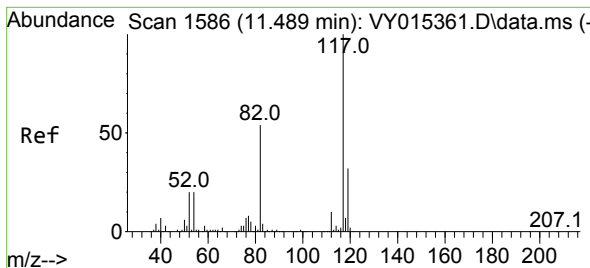
Tgt Ion: 43 Resp: 4187
Ion Ratio Lower Upper
43 100
58 47.6 25.1 75.3



#62
4-Bromofluorobenzene
Concen: 55.839 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.012 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Tgt Ion: 95 Resp: 174375
Ion Ratio Lower Upper
95 100
174 82.8 0.0 178.2
176 79.9 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.502 min Scan# 11

Delta R.T. 0.012 min

Lab File: VY015604.D

Acq: 16 Sep 2023 05:54

Instrument :

MSVOA_Y

ClientSampleId :

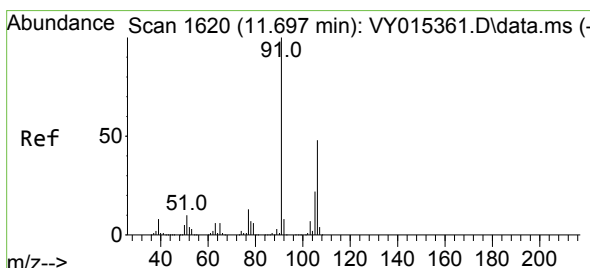
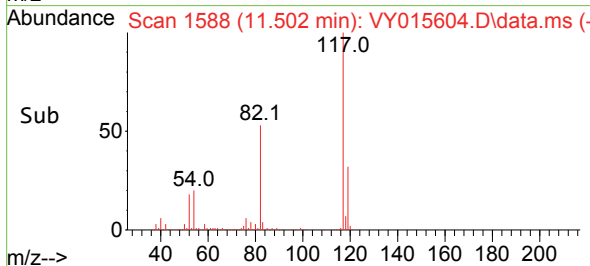
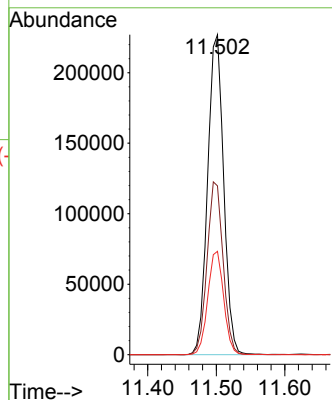
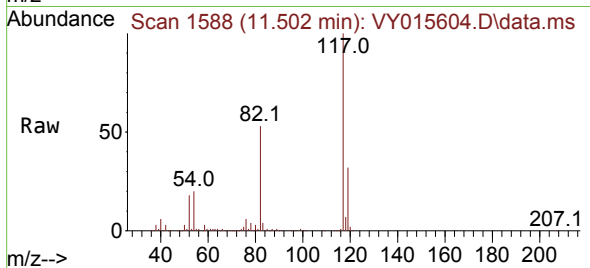
Tgt Ion:117 Resp: 369540

Ion Ratio Lower Upper

117 100

82 52.8 43.4 65.0

119 32.3 26.3 39.5



#68

m/p-Xylenes

Concen: 3.186 ug/l

RT: 11.709 min Scan# 1622

Delta R.T. 0.006 min

Lab File: VY015604.D

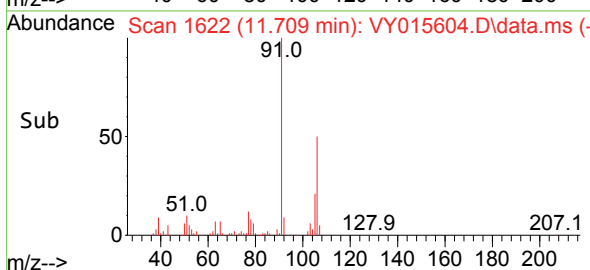
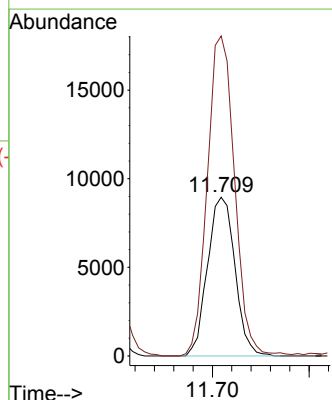
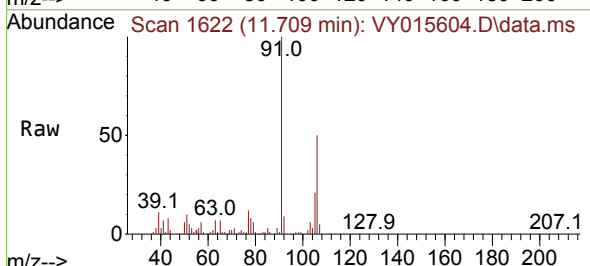
Acq: 16 Sep 2023 05:54

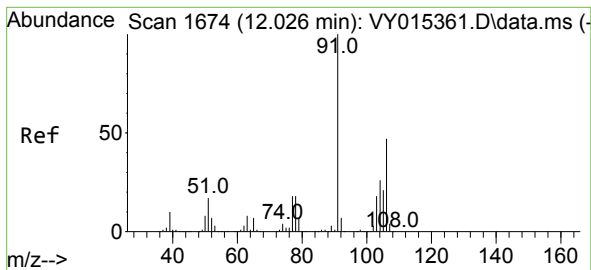
Tgt Ion:106 Resp: 17658

Ion Ratio Lower Upper

106 100

91 200.5 166.1 249.1





#69

o-Xylene

Concen: 1.629 ug/l

RT: 12.038 min Scan# 1

Delta R.T. 0.012 min

Lab File: VY015604.D

Acq: 16 Sep 2023 05:54

Instrument :

MSVOA_Y

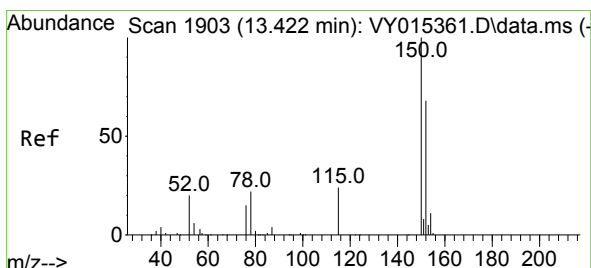
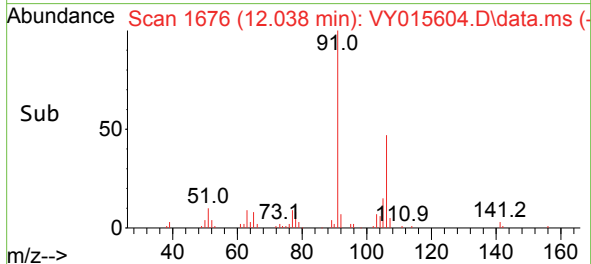
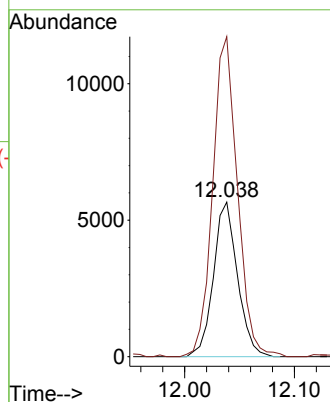
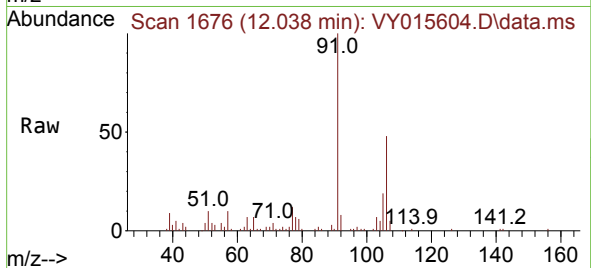
ClientSampleId :

Tgt Ion:106 Resp: 8626

Ion Ratio Lower Upper

106 100

91 212.8 108.1 324.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. 0.012 min

Lab File: VY015604.D

Acq: 16 Sep 2023 05:54

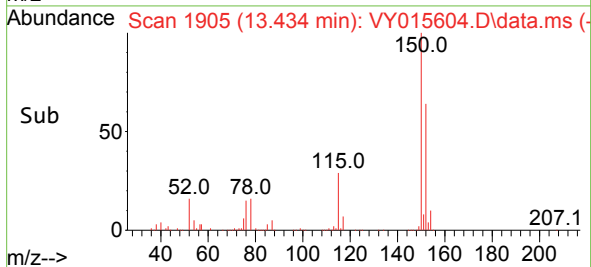
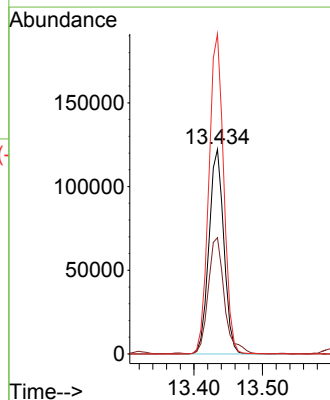
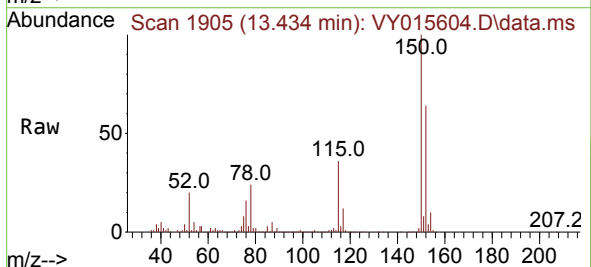
Tgt Ion:152 Resp: 184735

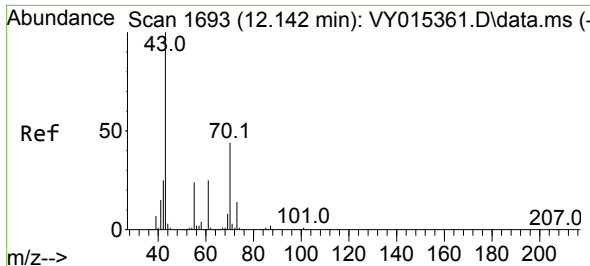
Ion Ratio Lower Upper

152 100

115 61.8 28.8 86.5

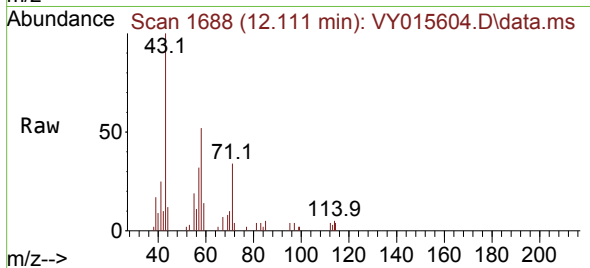
150 156.4 0.0 348.8



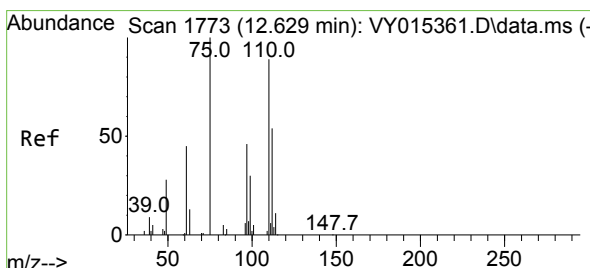
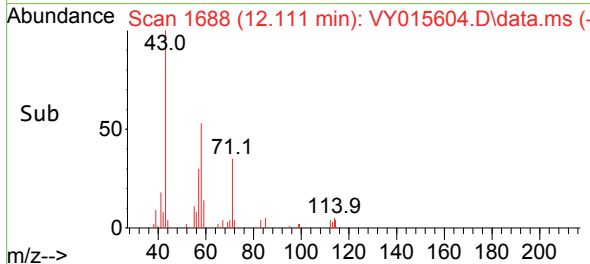
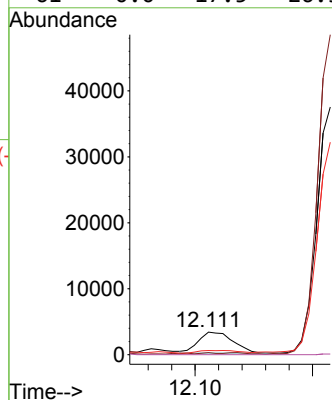


#74
N-amy1 acetate
Concen: 1.376 ug/l
RT: 12.111 min Scan# 1
Delta R.T. -0.030 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Instrument :
MSVOA_Y
ClientSampleId :

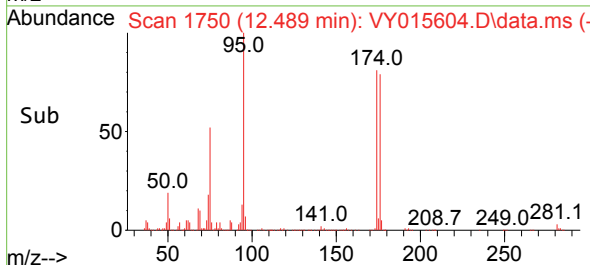
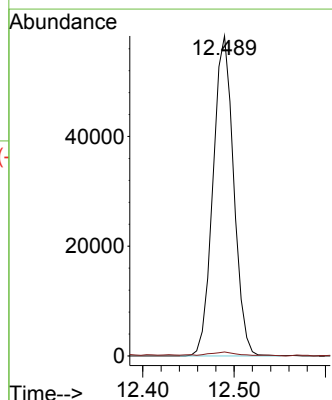
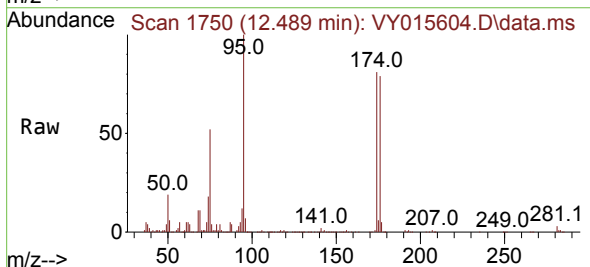


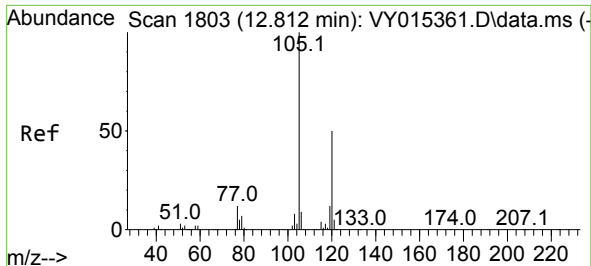
Tgt Ion: 43 Resp: 6417
Ion Ratio Lower Upper
43 100
70 0.0 29.7 44.5#
55 0.0 18.3 27.5#
61 0.0 17.5 26.3#



#76
1,2,3-Trichloropropane
Concen: 37.396 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. -0.140 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Tgt Ion: 75 Resp: 91612
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

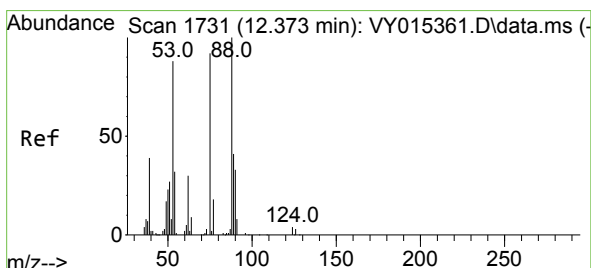
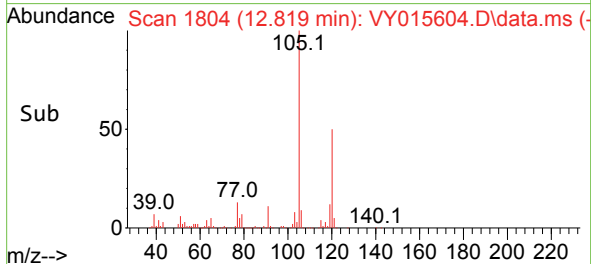
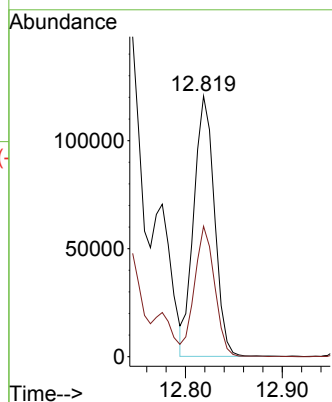
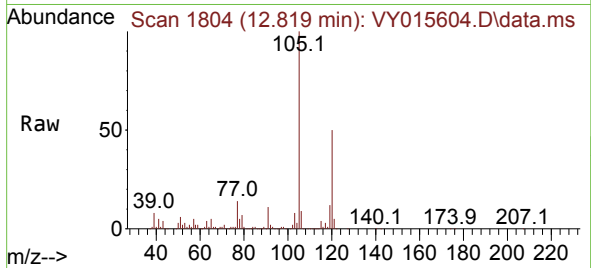




#80
1,3,5-Trimethylbenzene
Concen: 15.390 ug/l
RT: 12.819 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

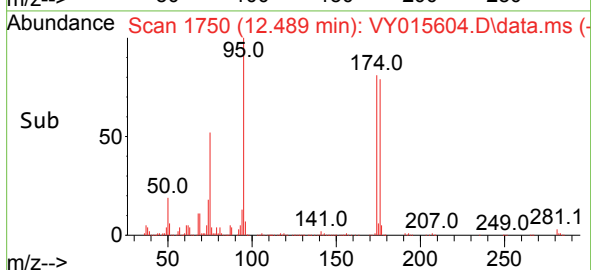
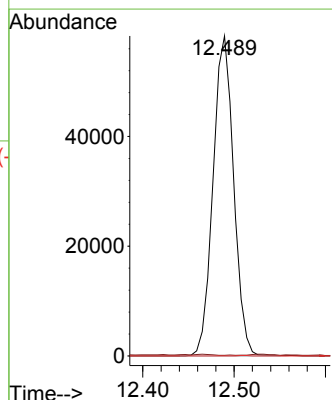
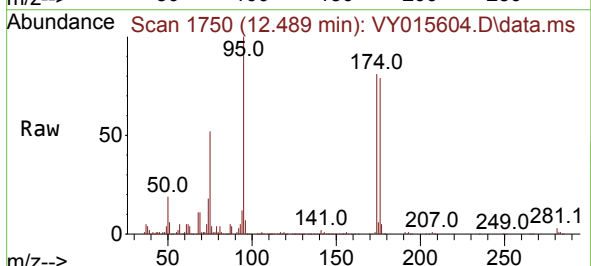
Instrument :
MSVOA_Y
ClientSampleId :

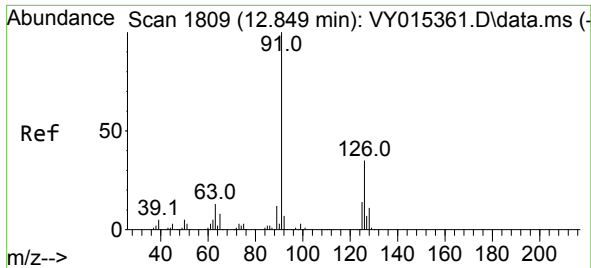
Tgt Ion:105 Resp: 178627
Ion Ratio Lower Upper
105 100
120 48.9 23.9 71.7



#81
trans-1,4-Dichloro-2-butene
Concen: 82.492 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.110 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Tgt Ion: 75 Resp: 91612
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.0 37.4 56.0#

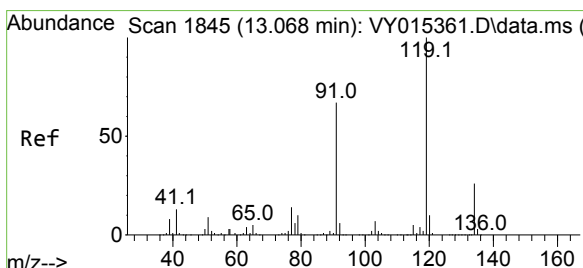
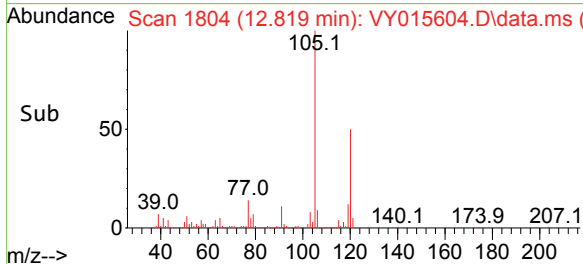
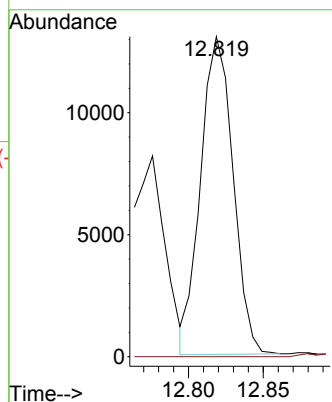
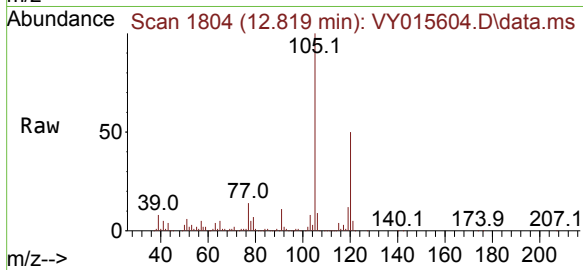




#82
4-Chlorotoluene
Concen: 2.005 ug/l
RT: 12.819 min Scan# 1804
Delta R.T. -0.030 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

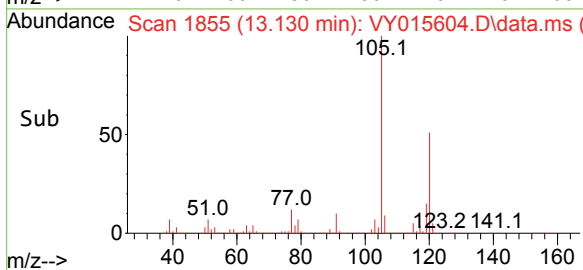
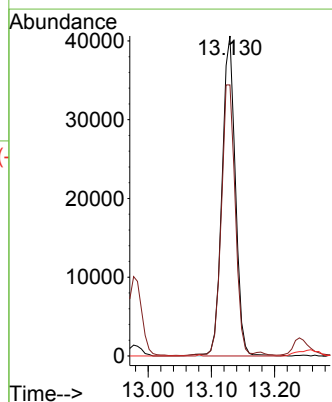
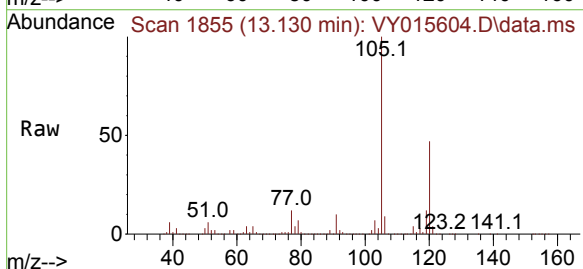
Instrument :
MSVOA_Y
ClientSampleId :

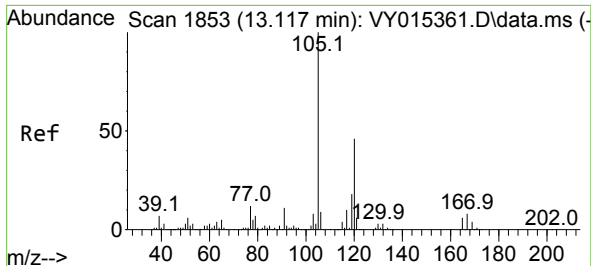
Tgt Ion: 91 Resp: 19627
Ion Ratio Lower Upper
91 100
126 0.0 17.2 51.6#



#83
tert-Butylbenzene
Concen: 5.836 ug/l
RT: 13.130 min Scan# 1855
Delta R.T. 0.055 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Tgt Ion: 119 Resp: 59323
Ion Ratio Lower Upper
119 100
91 87.9 32.9 98.6
134 0.0 13.0 38.9#

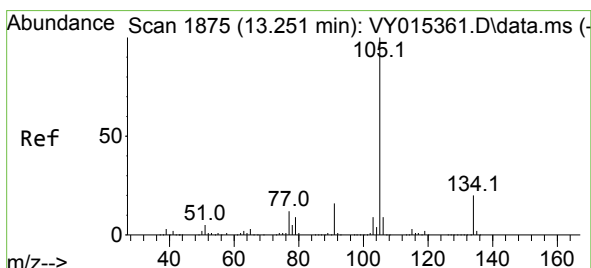
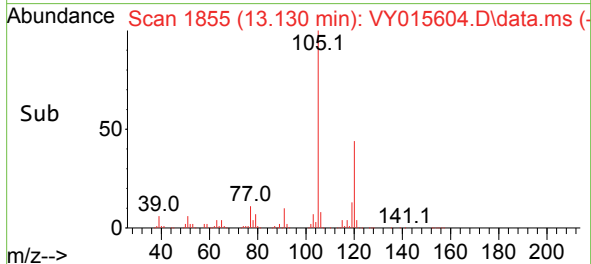
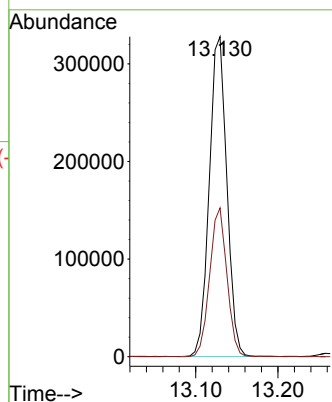
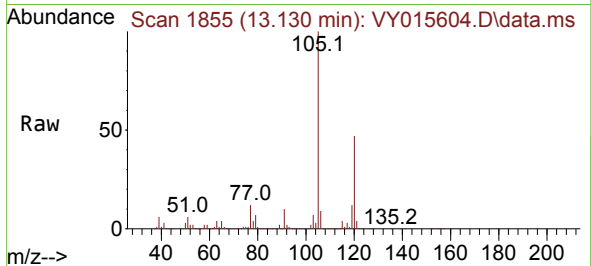




#84
1,2,4-Trimethylbenzene
Concen: 42.076 ug/l
RT: 13.130 min Scan# 1855
Delta R.T. 0.012 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

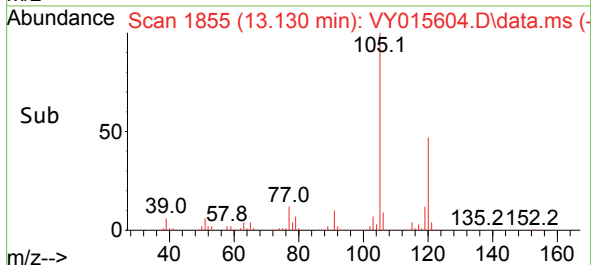
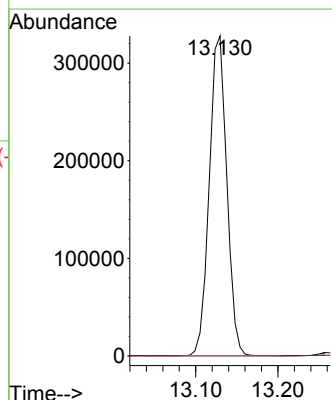
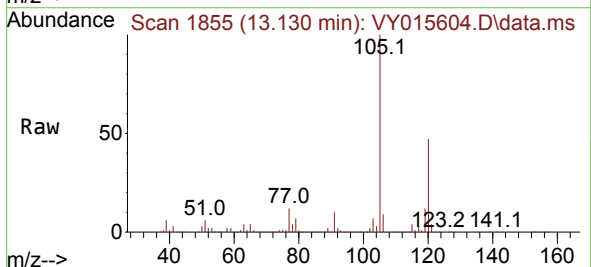
Instrument :
MSVOA_Y
ClientSampleId :

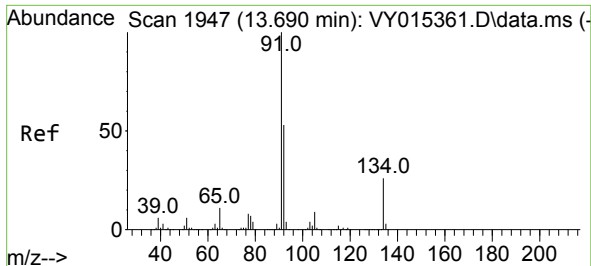
Tgt Ion:105 Resp: 484880
Ion Ratio Lower Upper
105 100
120 45.8 22.2 66.6



#85
sec-Butylbenzene
Concen: 31.979 ug/l
RT: 13.130 min Scan# 1855
Delta R.T. -0.122 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Tgt Ion:105 Resp: 484880
Ion Ratio Lower Upper
105 100
134 0.0 10.2 30.6#





#89

n-Butylbenzene

Concen: 4.075 ug/l

RT: 13.672 min Scan# 1944

Delta R.T. -0.024 min

Lab File: VY015604.D

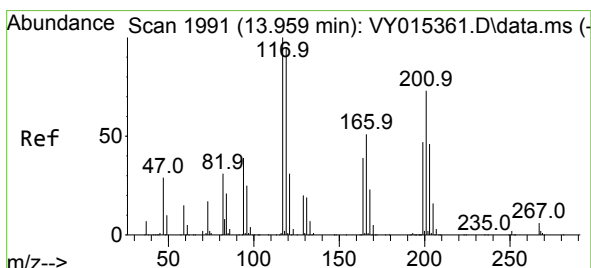
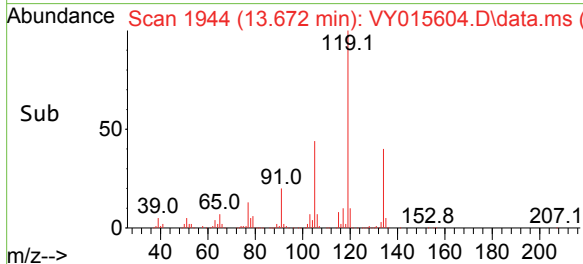
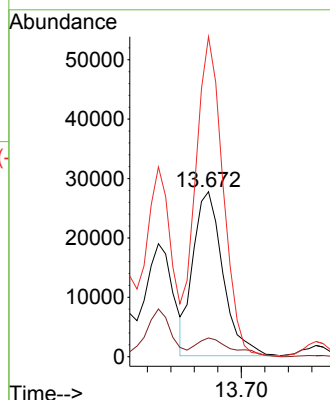
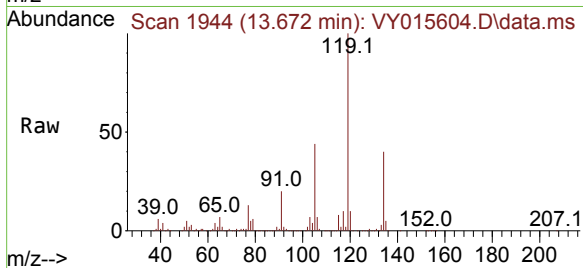
Acq: 16 Sep 2023 05:54

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 91	Resp: 48740
Ion Ratio	Lower Upper
91	100
92	13.6 25.4 76.0#
134	179.4 12.6 37.6#



#90

Hexachloroethane

Concen: 9.381 ug/l

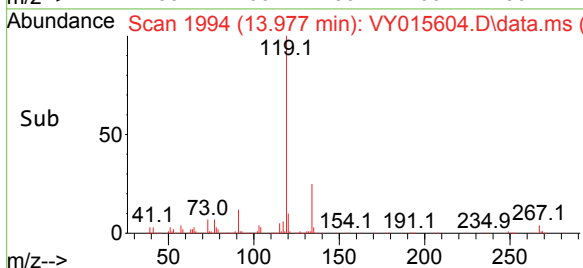
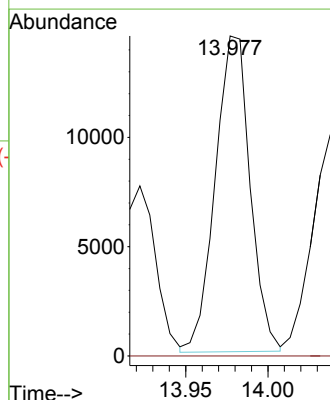
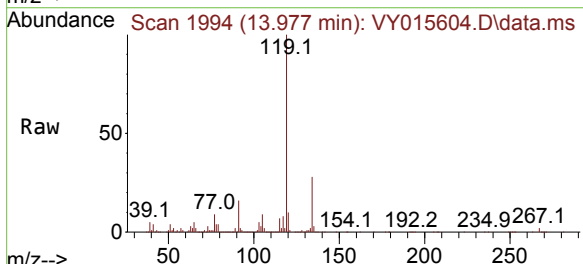
RT: 13.977 min Scan# 1994

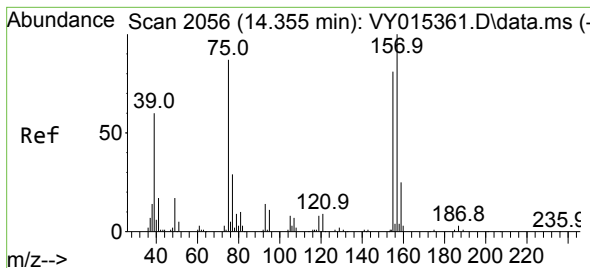
Delta R.T. 0.018 min

Lab File: VY015604.D

Acq: 16 Sep 2023 05:54

Tgt Ion: 117	Resp: 21321
Ion Ratio	Lower Upper
117	100
201	0.0 41.6 124.8#

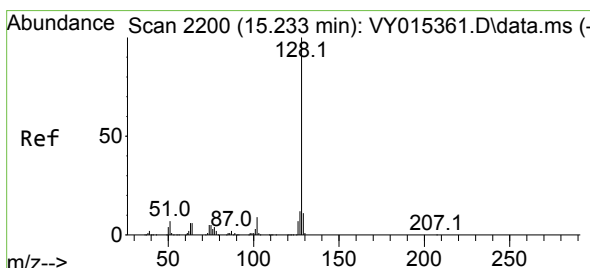
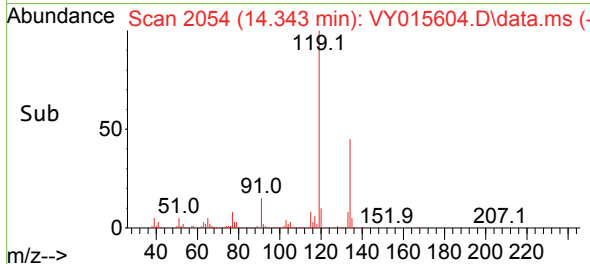
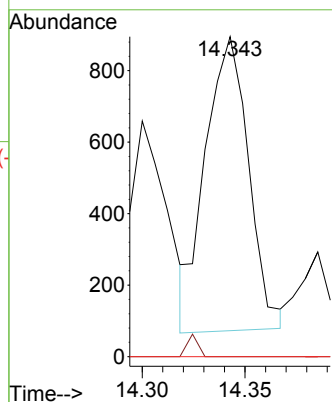
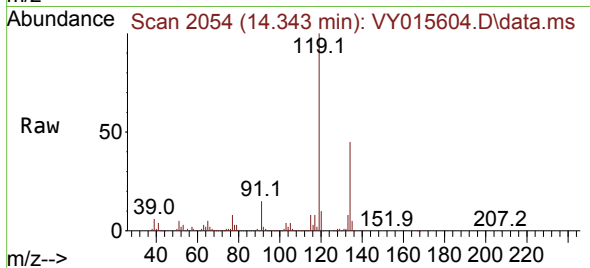




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.830 ug/l
RT: 14.343 min Scan# 2054
Delta R.T. -0.012 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 1199
Ion Ratio Lower Upper
75 100
155 1.9 41.5 124.6#
157 0.0 51.8 155.5#



#95
Naphthalene
Concen: 12.582 ug/l
RT: 15.245 min Scan# 2202
Delta R.T. 0.012 min
Lab File: VY015604.D
Acq: 16 Sep 2023 05:54

Tgt Ion:128 Resp: 115897
Ion Ratio Lower Upper
128 100
127 13.0 10.8 16.2
129 11.1 8.6 13.0

