

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY101123\
 Data File : VY015931.D
 Acq On : 11 Oct 2023 18:06
 Operator : SY/MD
 Sample : 04805-05
 Misc : 5.07g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 12 01:59:20 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100923S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 10 07:06:18 2023
 Response via : Initial Calibration

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

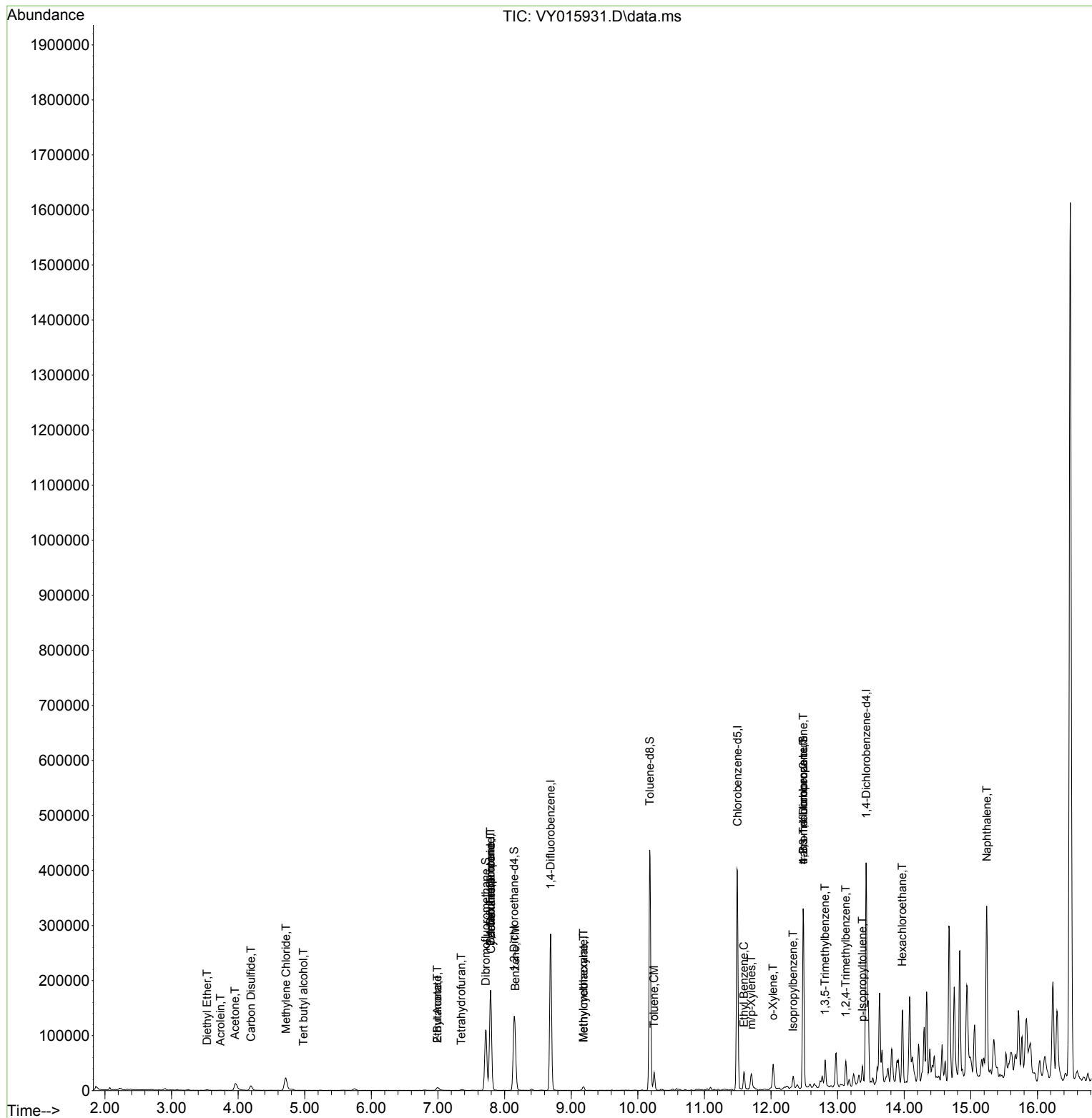
Internal Standards						
1) Pentafluorobenzene	7.789	168	142747	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	246609	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	228879	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	102264	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	86480	67.329	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 134.660%			
35) Dibromofluoromethane	7.716	113	79618	57.882	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 115.760%			
50) Toluene-d8	10.178	98	291111	64.216	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 128.440%			
62) 4-Bromofluorobenzene	12.483	95	99006	53.769	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 107.540%			
Target Compounds					Qvalue	
8) Diethyl Ether	3.533	74	748	1.119	ug/l	68
11) Tert butyl alcohol	4.978	59	163	11.282	ug/l #	89
13) Acrolein	3.735	56	297	3.783	ug/l #	58
16) Acetone	3.954	43	28826	50.752	ug/l	92
17) Carbon Disulfide	4.192	76	17188	15.904	ug/l	98
20) Methylene Chloride	4.716	84	17357	4.383	ug/l	91
25) 2-Butanone	6.990	43	7929	11.253	ug/l	99
29) Tetrahydrofuran	7.350	42	1136	2.947	ug/l #	91
31) Cyclohexane	7.795	56	3428	2.492	ug/l #	1
36) 1,1-Dichloropropene	7.789	75	10684	7.013	ug/l #	50
37) Ethyl Acetate	6.990	43	7929	6.060	ug/l #	72
38) Carbon Tetrachloride	7.789	117	13755	7.518	ug/l #	16
39) Methylcyclohexane	9.185	83	2895	1.871	ug/l #	88
40) Benzene	8.161	78	50155	10.476	ug/l	99
48) Methyl methacrylate	9.185	41	1474	1.378	ug/l #	72
52) Toluene	10.246	92	13215	4.158	ug/l	96
67) Ethyl Benzene	11.593	91	21680	3.165	ug/l	99
68) m/p-Xylenes	11.703	106	9244	3.582	ug/l	97
69) o-Xylene	12.032	106	11349	4.395	ug/l	97
73) Isopropylbenzene	12.331	105	12627	1.957	ug/l	99
76) 1,2,3-Trichloropropane	12.483	75	51345	43.009	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.812	105	20866	3.925	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.483	75	51345	95.374	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.123	105	24688	4.611	ug/l	93
86) p-Isopropyltoluene	13.373	119	11977	1.990	ug/l	95
90) Hexachloroethane	13.970	117	6636	5.493	ug/l #	8
95) Naphthalene	15.239	128	250359	57.045	ug/l	98

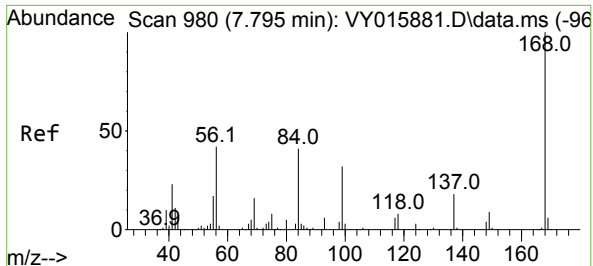
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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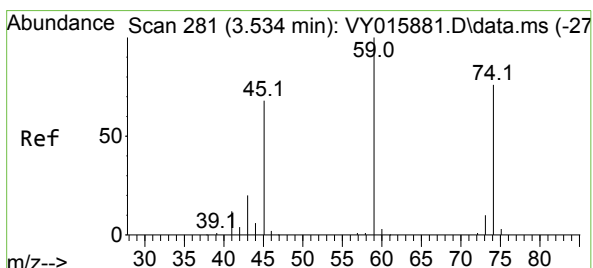
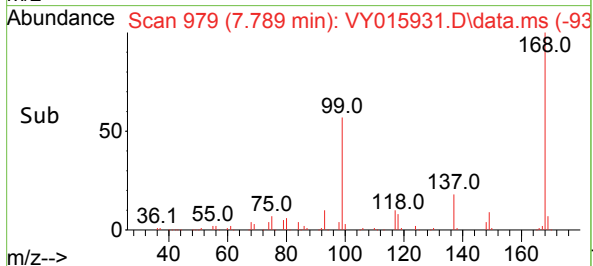
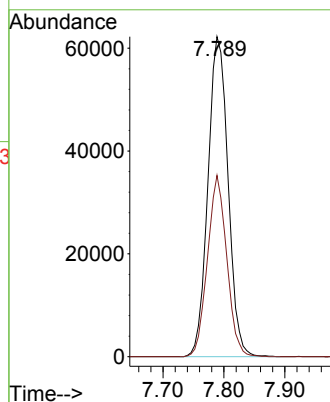
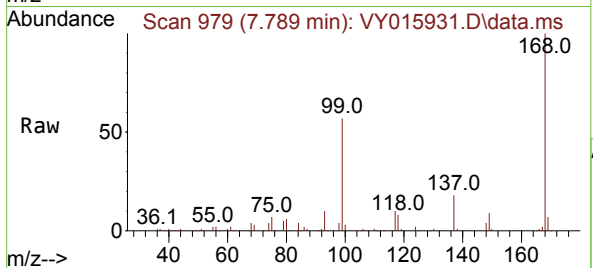




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

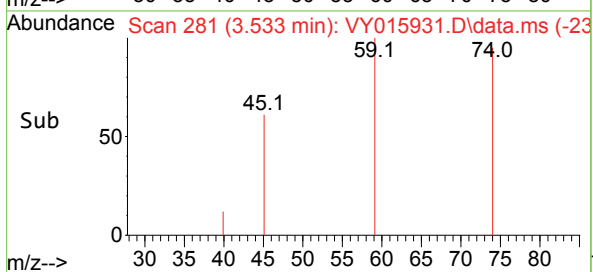
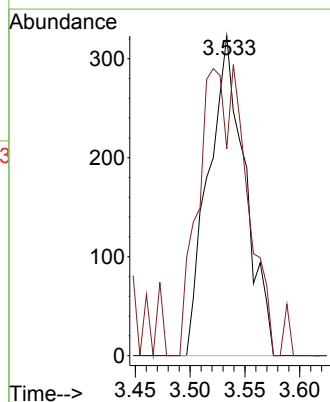
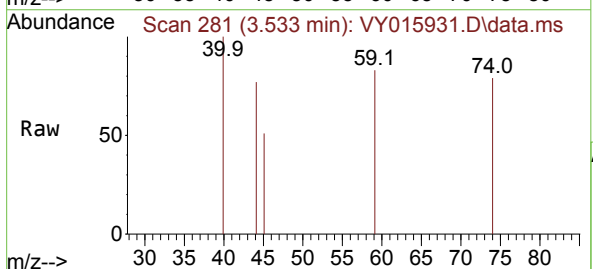
Instrument :
MSVOA_Y
ClientSampleId :

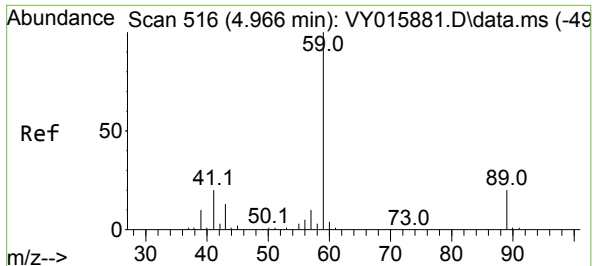
Tgt Ion:168 Resp: 142747
Ion Ratio Lower Upper
168 100
99 56.7 43.4 65.0



#8
Diethyl Ether
Concen: 1.119 ug/l
RT: 3.533 min Scan# 281
Delta R.T. -0.000 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

Tgt Ion: 74 Resp: 748
Ion Ratio Lower Upper
74 100
45 70.6 51.5 154.5





#11

Tert butyl alcohol

Concen: 11.282 ug/l

RT: 4.978 min Scan# 51

Delta R.T. 0.012 min

Lab File: VY015931.D

Acq: 11 Oct 2023 18:06

Instrument :

MSVOA_Y

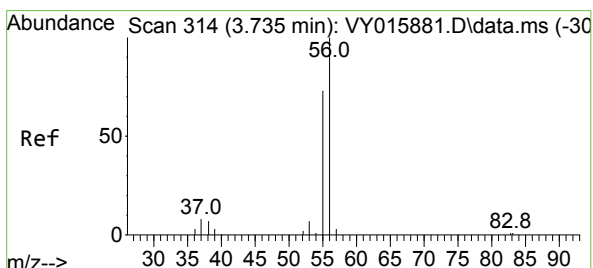
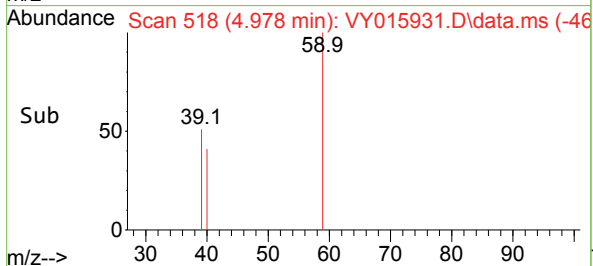
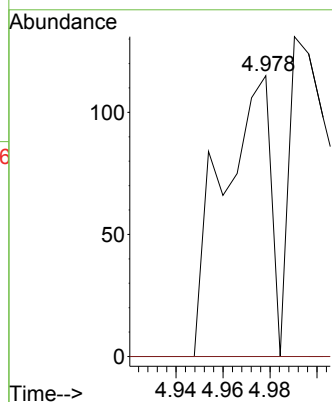
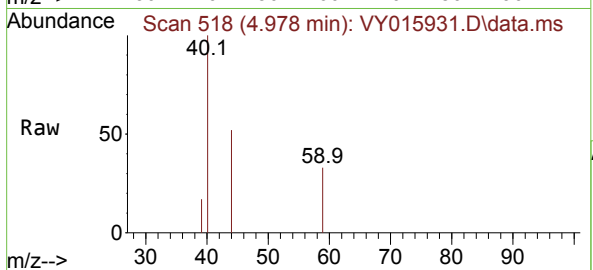
ClientSampleId :

Tgt Ion: 59 Resp: 163

Ion Ratio Lower Upper

59 100

57 0.0 3.0 4.4#



#13

Acrolein

Concen: 3.783 ug/l

RT: 3.735 min Scan# 314

Delta R.T. -0.000 min

Lab File: VY015931.D

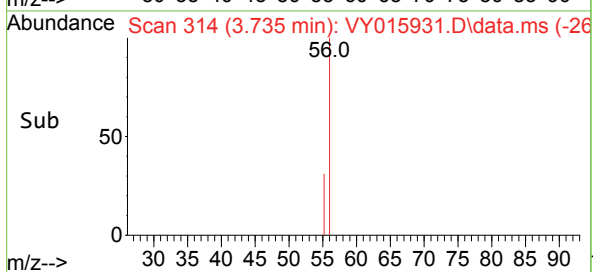
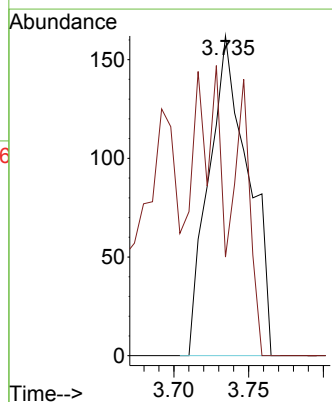
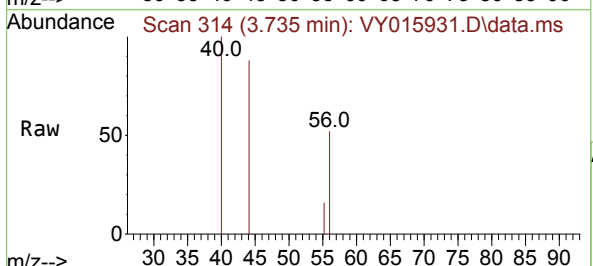
Acq: 11 Oct 2023 18:06

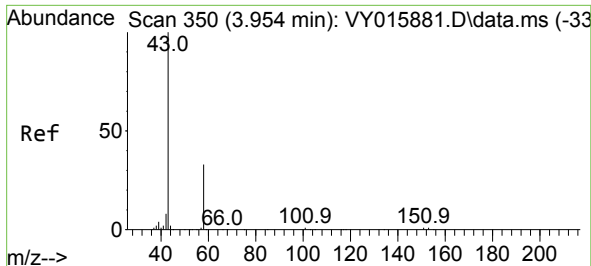
Tgt Ion: 56 Resp: 297

Ion Ratio Lower Upper

56 100

55 36.7 57.0 85.4#





#16

Acetone

Concen: 50.752 ug/l

RT: 3.954 min Scan# 31

Delta R.T. 0.000 min

Lab File: VY015931.D

Acq: 11 Oct 2023 18:06

Instrument :

MSVOA_Y

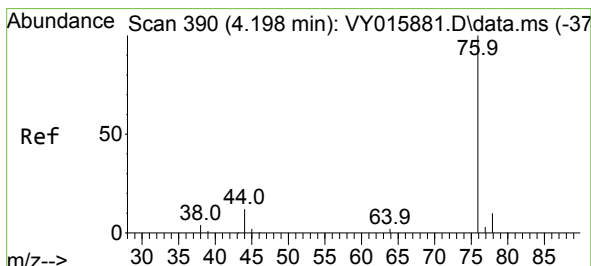
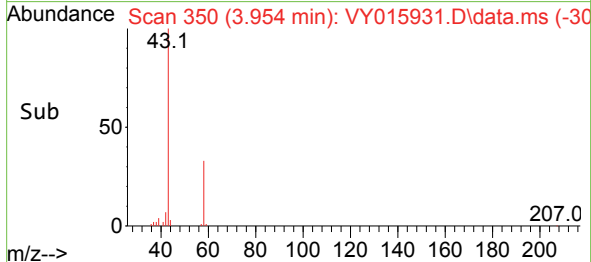
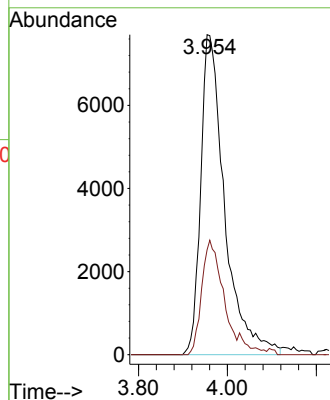
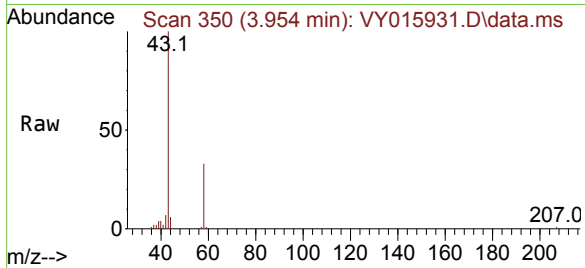
ClientSampleId :

Tgt Ion: 43 Resp: 28826

Ion Ratio Lower Upper

43 100

58 32.8 22.7 34.1



#17

Carbon Disulfide

Concen: 15.904 ug/l

RT: 4.192 min Scan# 389

Delta R.T. -0.006 min

Lab File: VY015931.D

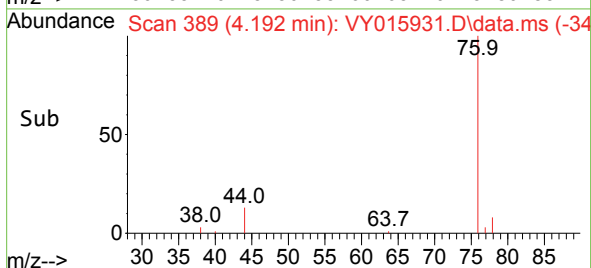
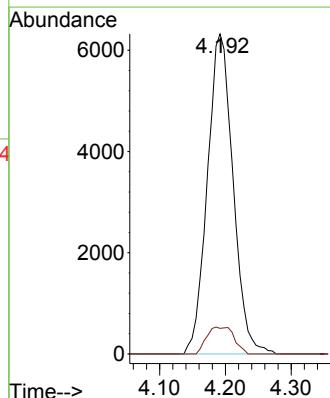
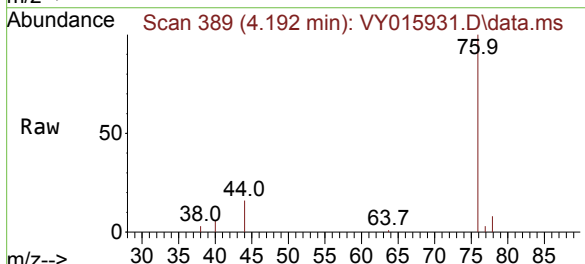
Acq: 11 Oct 2023 18:06

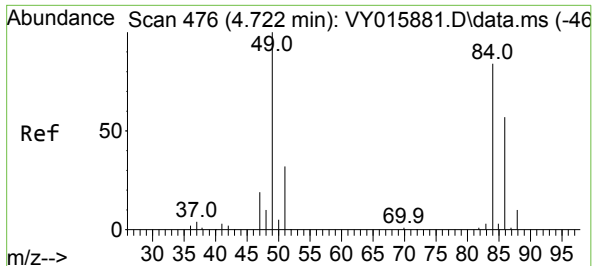
Tgt Ion: 76 Resp: 17188

Ion Ratio Lower Upper

76 100

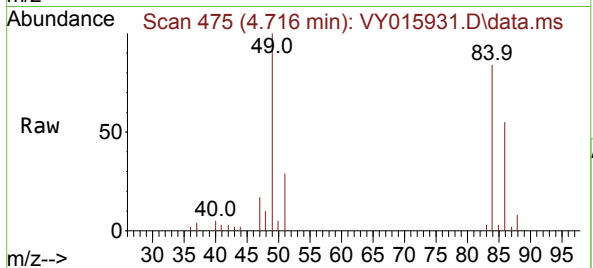
78 8.0 7.0 10.4



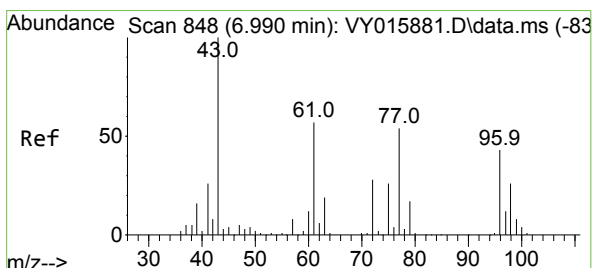
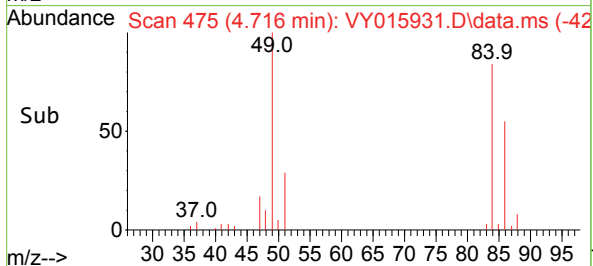
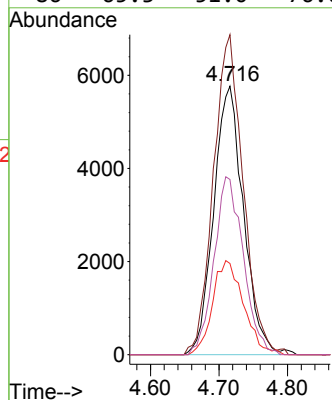


#20
Methylene Chloride
Concen: 4.383 ug/l
RT: 4.716 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

Instrument :
MSVOA_Y
ClientSampleId :

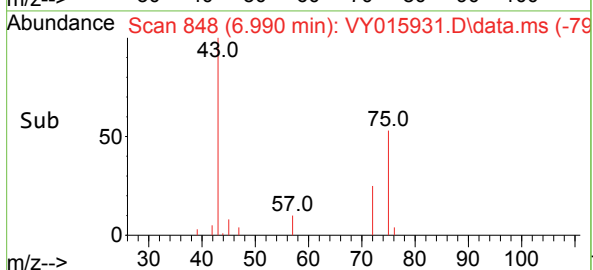
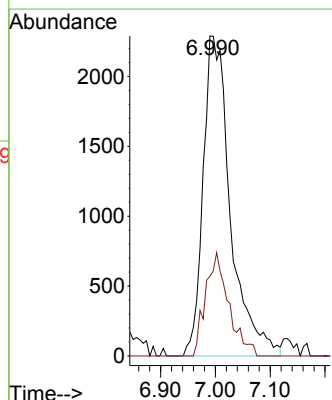
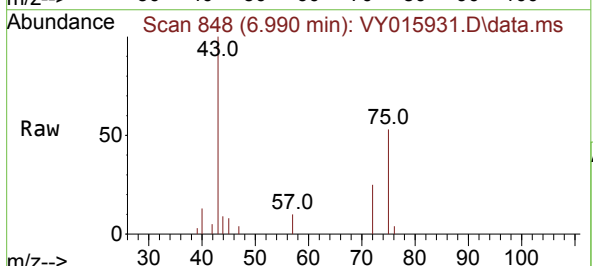


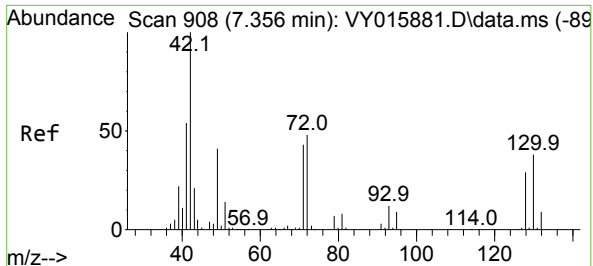
Tgt Ion: 84	Resp: 17357		
Ion	Ratio	Lower	Upper
84	100		
49	119.2	106.9	160.3
51	34.0	33.2	49.8
86	65.3	51.0	76.6



#25
2-Butanone
Concen: 11.253 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.000 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

Tgt Ion: 43	Resp: 7929		
Ion Ratio	Lower	Upper	
43 100			
72 24.9	20.5	30.7	





#29

Tetrahydrofuran

Concen: 2.947 ug/l

RT: 7.350 min Scan# 90

Delta R.T. -0.006 min

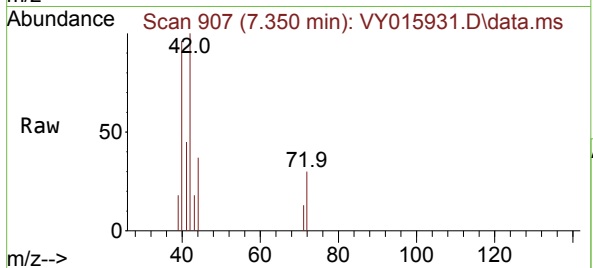
Lab File: VY015931.D

Acq: 11 Oct 2023 18:06

Instrument :

MSVOA_Y

ClientSampleId :



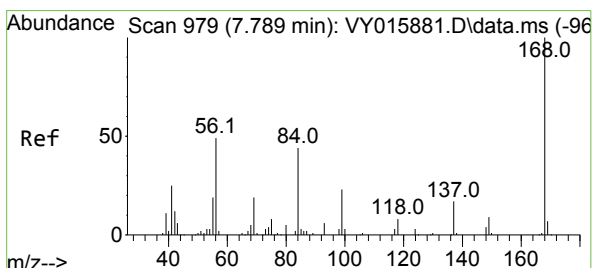
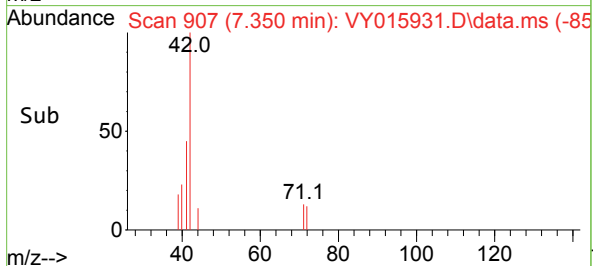
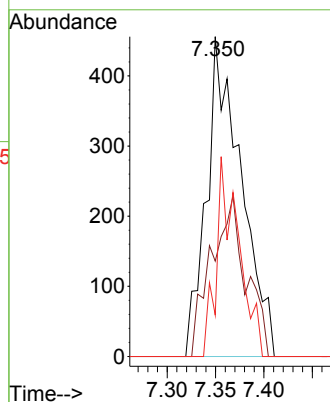
Tgt Ion: 42 Resp: 1136

Ion Ratio Lower Upper

42 100

72 50.4 32.8 49.2#

71 40.2 31.0 46.4



#31

Cyclohexane

Concen: 2.492 ug/l

RT: 7.795 min Scan# 980

Delta R.T. 0.006 min

Lab File: VY015931.D

Acq: 11 Oct 2023 18:06

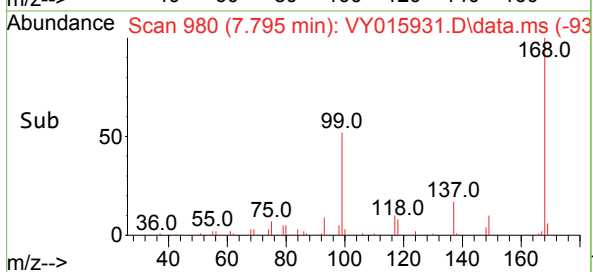
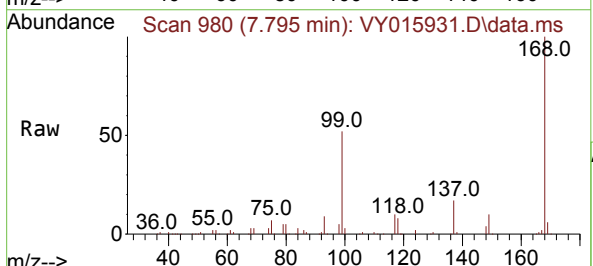
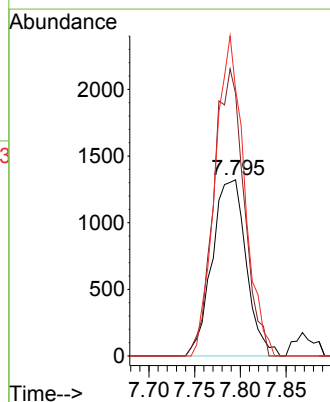
Tgt Ion: 56 Resp: 3428

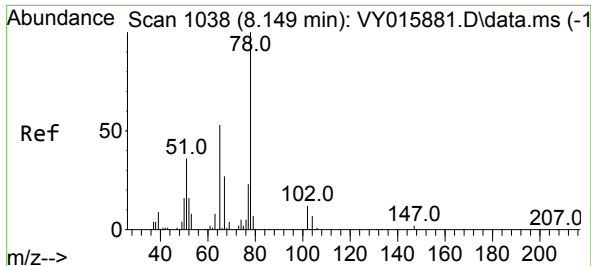
Ion Ratio Lower Upper

56 100

69 148.9 27.8 41.6#

84 151.3 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 67.329 ug/l

RT: 8.142 min Scan# 1038

Delta R.T. -0.006 min

Lab File: VY015931.D

Acq: 11 Oct 2023 18:06

Instrument :

MSVOA_Y

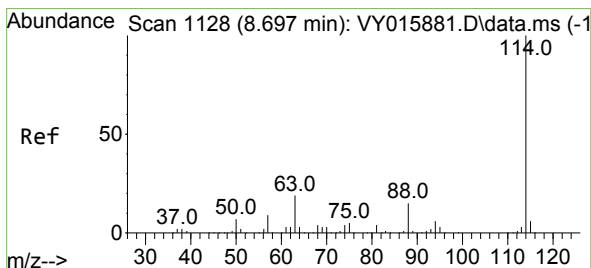
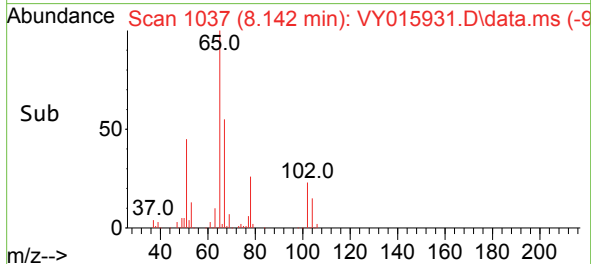
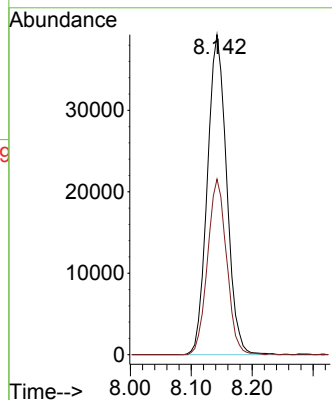
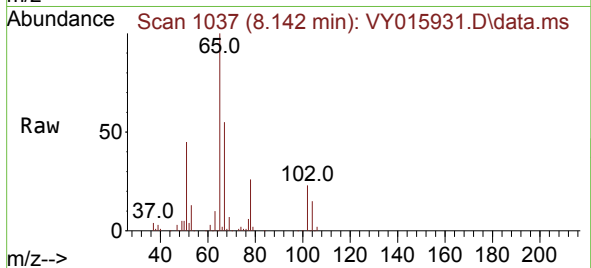
ClientSampleId :

Tgt Ion: 65 Resp: 86480

Ion Ratio Lower Upper

65 100

67 54.1 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.006 min

Lab File: VY015931.D

Acq: 11 Oct 2023 18:06

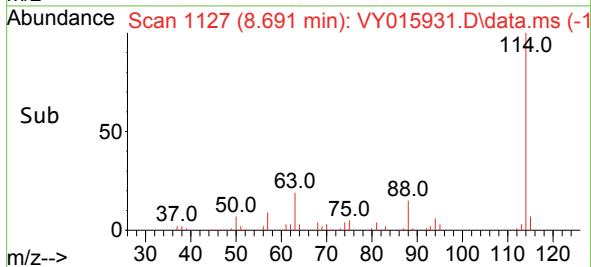
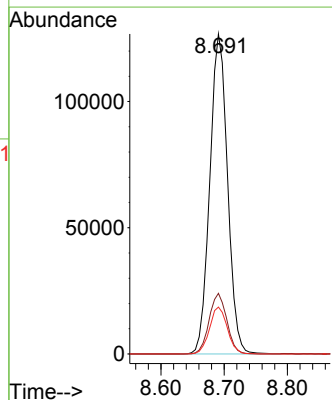
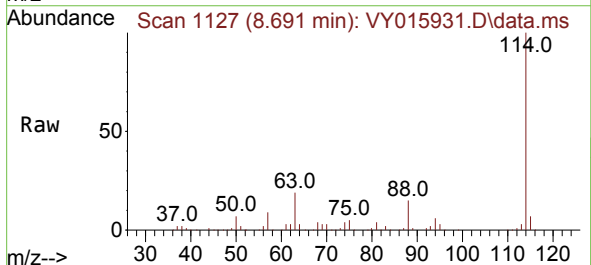
Tgt Ion:114 Resp: 246609

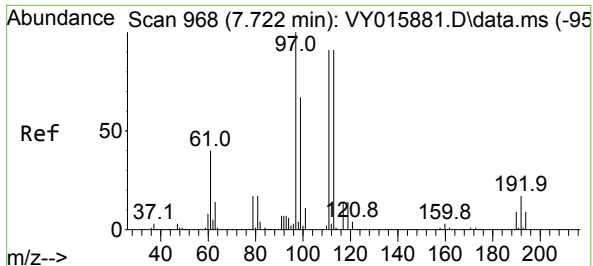
Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.4

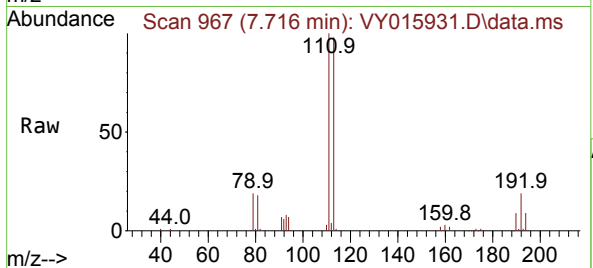
88 14.7 0.0 30.6



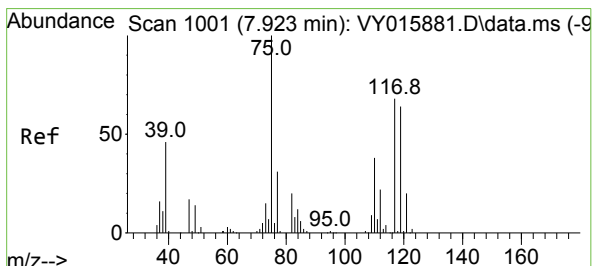
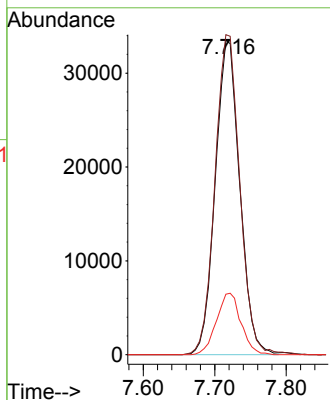
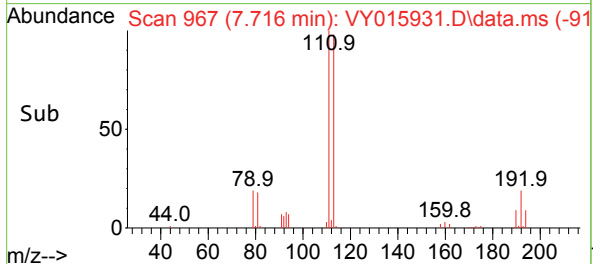


#35
Dibromofluoromethane
Concen: 57.882 ug/l
RT: 7.716 min Scan# 911
Delta R.T. -0.006 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

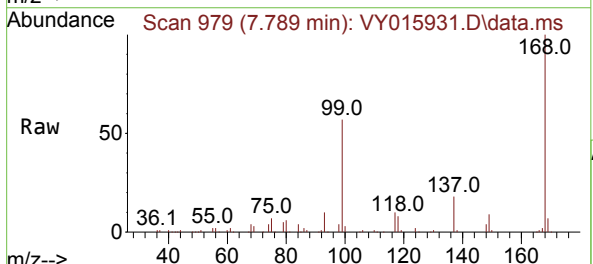
Instrument :
MSVOA_Y
ClientSampleId :



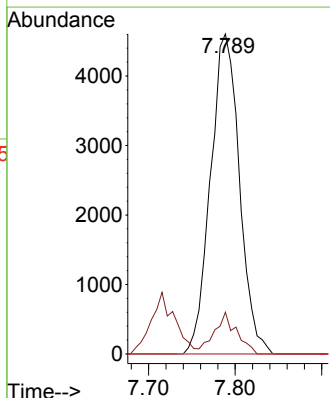
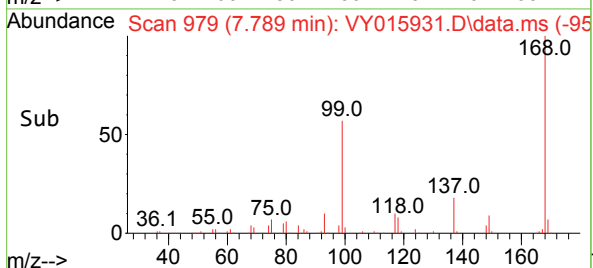
Tgt Ion:113 Resp: 79618
Ion Ratio Lower Upper
113 100
111 103.2 81.3 121.9
192 19.6 16.9 25.3

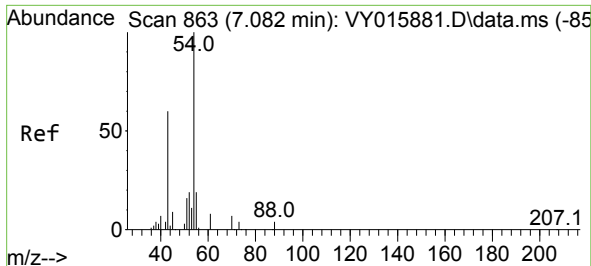


#36
1,1-Dichloropropene
Concen: 7.013 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.134 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06



Tgt Ion: 75 Resp: 10684
Ion Ratio Lower Upper
75 100
110 9.9 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 6.060 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.092 min

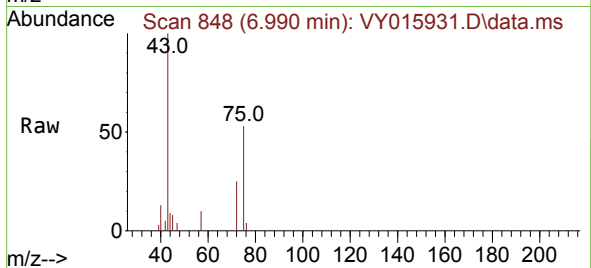
Lab File: VY015931.D

Acq: 11 Oct 2023 18:06

Instrument :

MSVOA_Y

ClientSampleId :



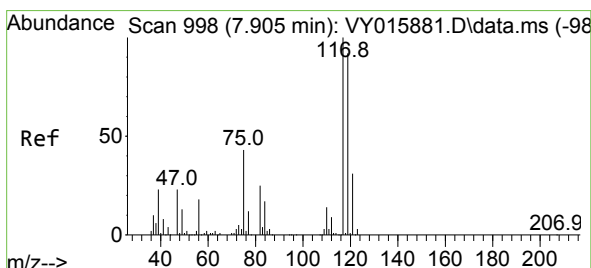
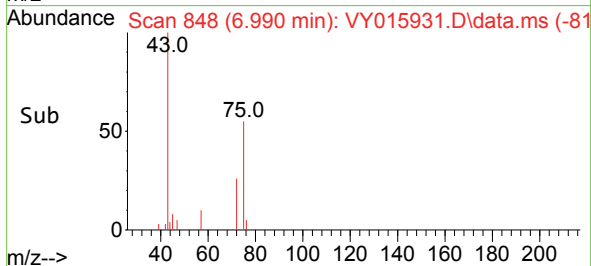
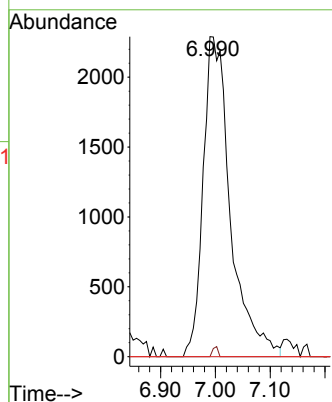
Tgt Ion: 43 Resp: 7929

Ion Ratio Lower Upper

43 100

61 0.6 10.1 15.1#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 7.518 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.116 min

Lab File: VY015931.D

Acq: 11 Oct 2023 18:06

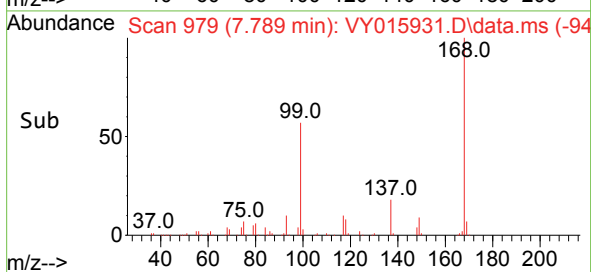
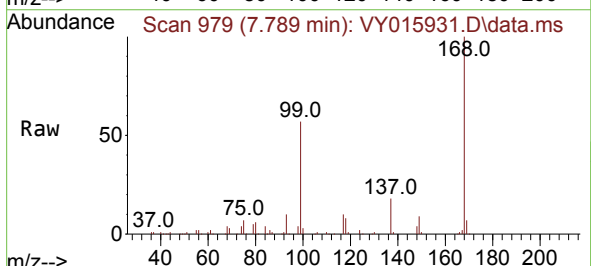
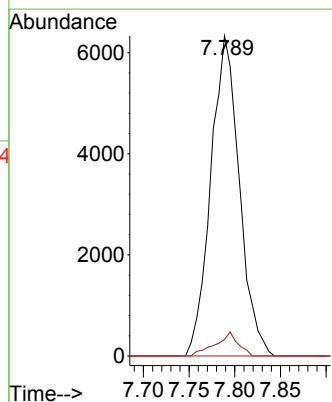
Tgt Ion: 117 Resp: 13755

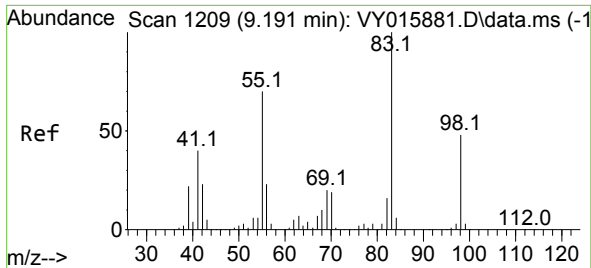
Ion Ratio Lower Upper

117 100

119 5.1 76.4 114.6#

121 0.0 25.8 38.6#

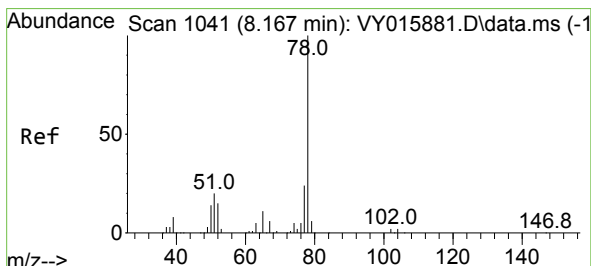
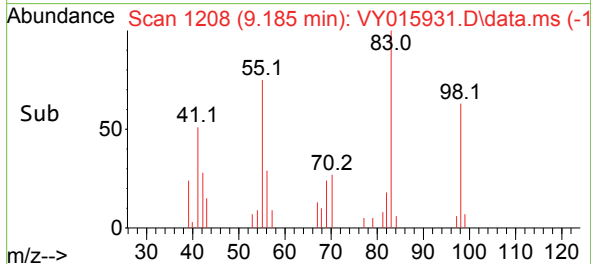
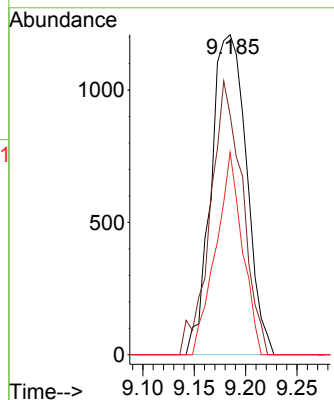
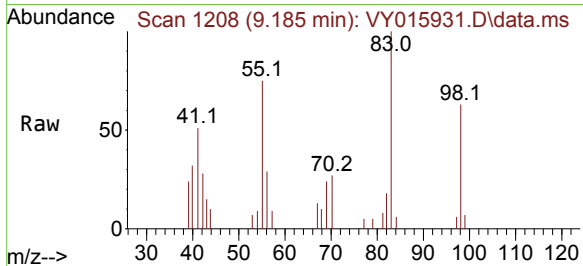




#39
Methylcyclohexane
Concen: 1.871 ug/l
RT: 9.185 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

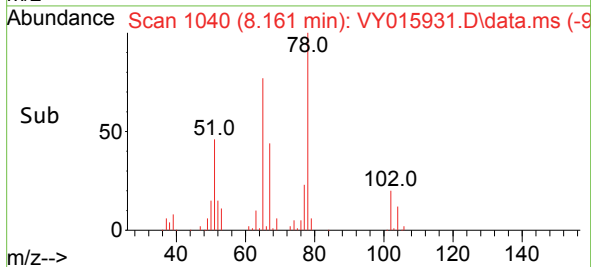
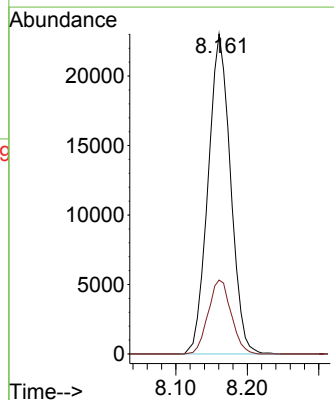
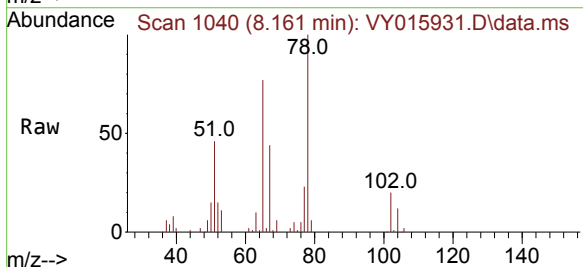
Instrument :
MSVOA_Y
ClientSampleId :

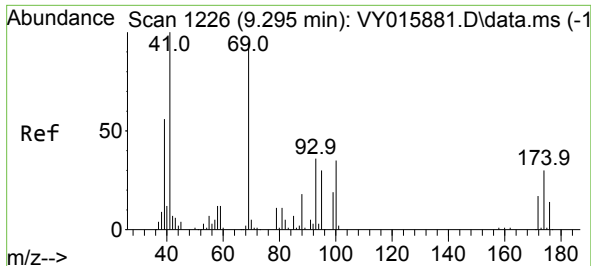
Tgt Ion: 83 Resp: 2895
Ion Ratio Lower Upper
83 100
55 74.9 63.0 94.4
98 63.3 37.4 56.2#



#40
Benzene
Concen: 10.476 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

Tgt Ion: 78 Resp: 50155
Ion Ratio Lower Upper
78 100
77 23.1 19.0 28.6





#48

Methyl methacrylate

Concen: 1.378 ug/l

RT: 9.185 min Scan# 11

Delta R.T. -0.110 min

Lab File: VY015931.D

Acq: 11 Oct 2023 18:06

Instrument :

MSVOA_Y

ClientSampleId :

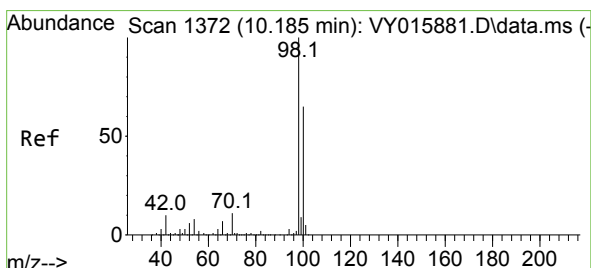
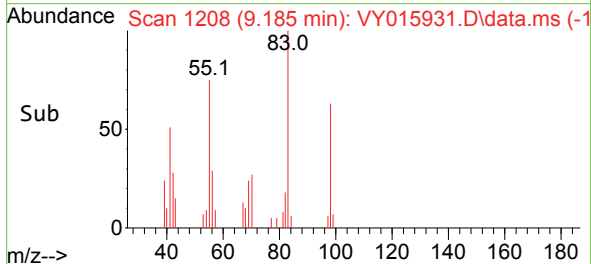
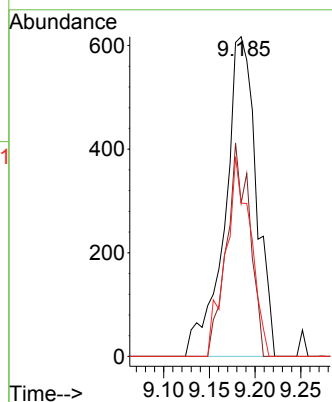
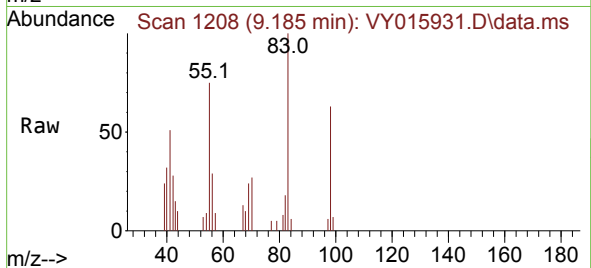
Tgt Ion: 41 Resp: 1474

Ion Ratio Lower Upper

41 100

69 49.1 64.5 96.7#

39 49.5 50.8 76.2#



#50

Toluene-d8

Concen: 64.216 ug/l

RT: 10.178 min Scan# 1371

Delta R.T. -0.006 min

Lab File: VY015931.D

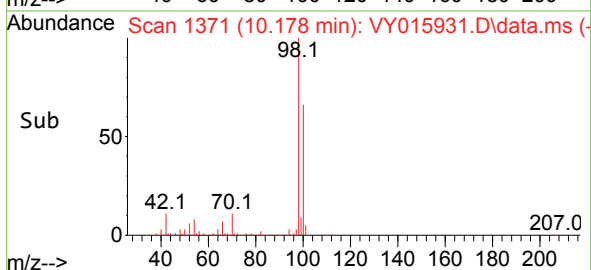
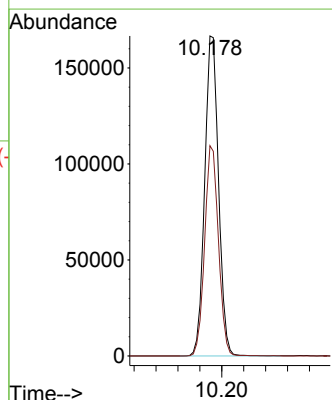
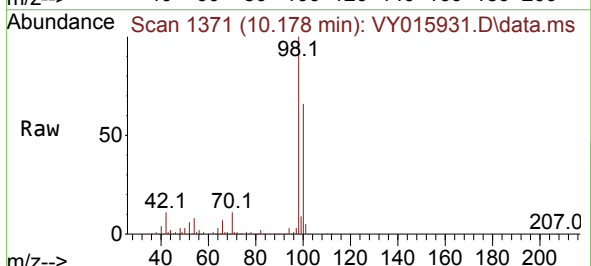
Acq: 11 Oct 2023 18:06

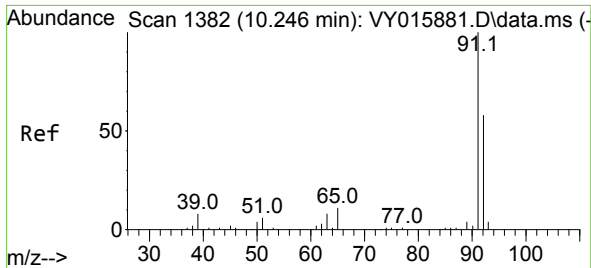
Tgt Ion: 98 Resp: 291111

Ion Ratio Lower Upper

98 100

100 65.5 50.1 75.1

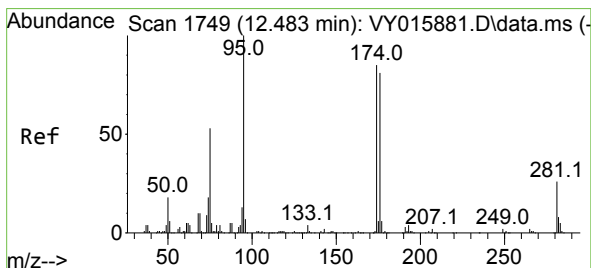
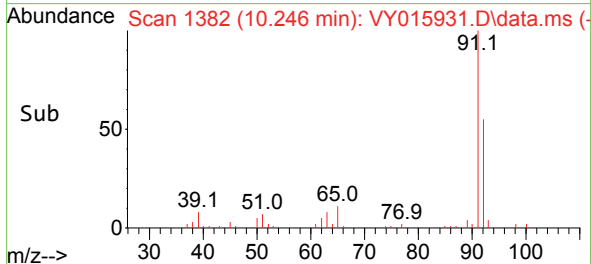
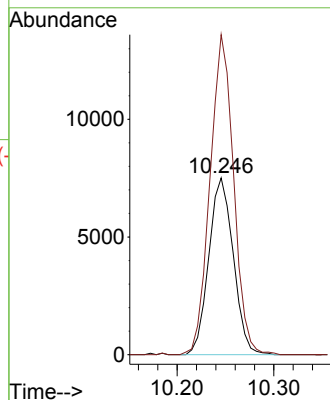
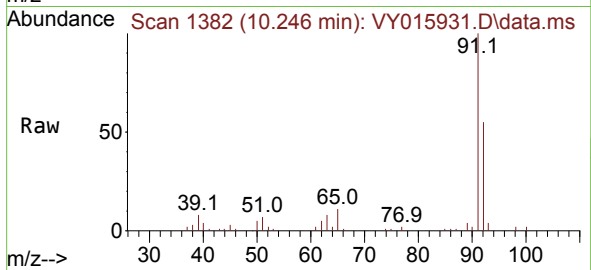




#52
Toluene
Concen: 4.158 ug/l
RT: 10.246 min Scan# 1382
Delta R.T. -0.000 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

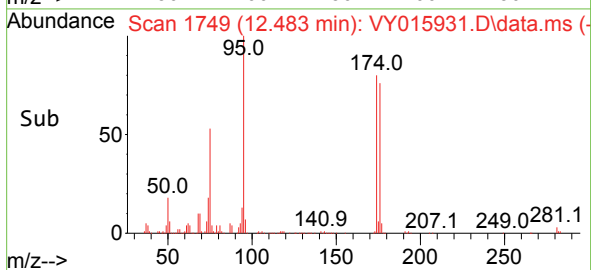
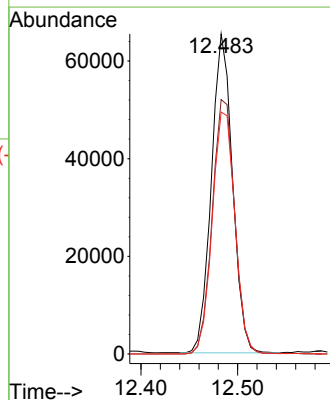
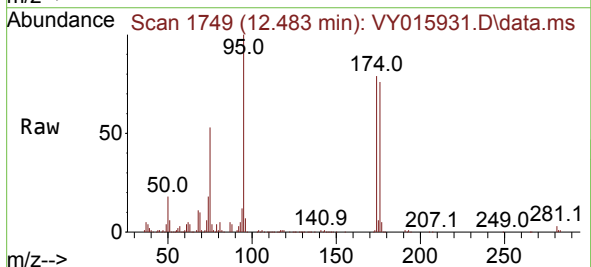
Instrument :
MSVOA_Y
ClientSampleId :

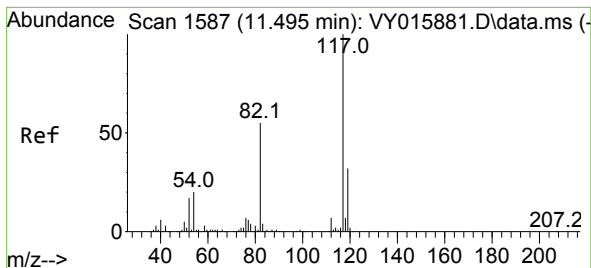
Tgt Ion: 92 Resp: 13215
Ion Ratio Lower Upper
92 100
91 174.5 143.8 215.6



#62
4-Bromofluorobenzene
Concen: 53.769 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

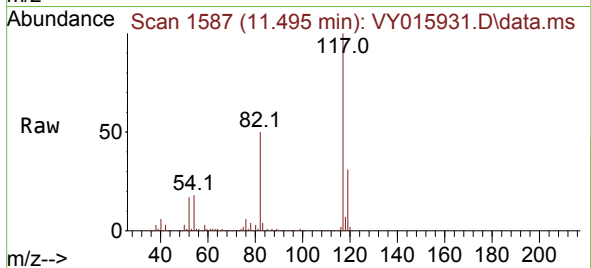
Tgt Ion: 95 Resp: 99006
Ion Ratio Lower Upper
95 100
174 84.6 0.0 178.2
176 81.7 0.0 173.8



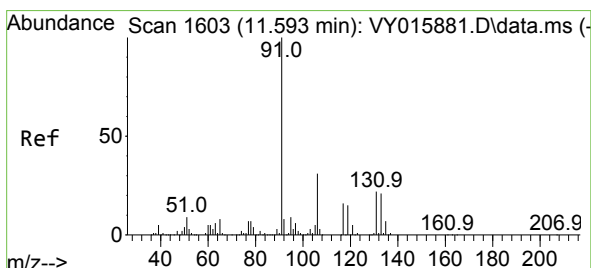
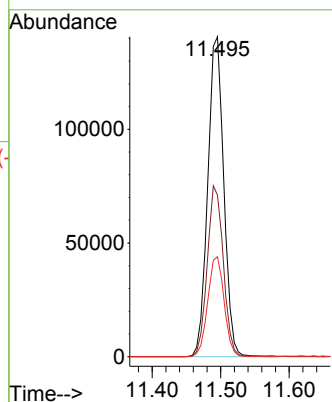
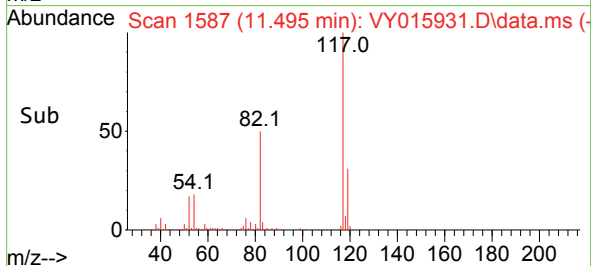


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

Instrument :
MSVOA_Y
ClientSampleId :

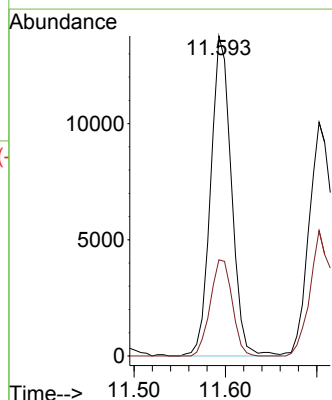
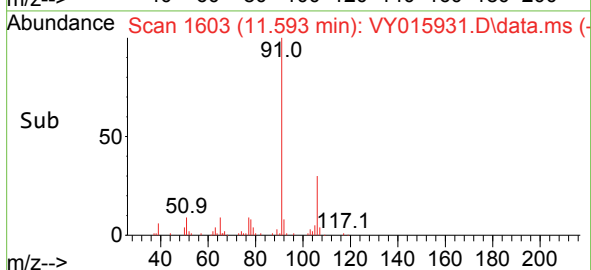
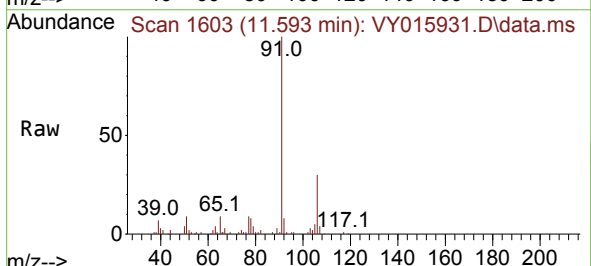


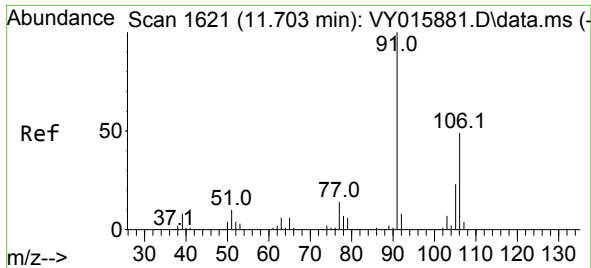
Tgt Ion:117 Resp: 228879
Ion Ratio Lower Upper
117 100
82 50.5 43.4 65.0
119 31.3 26.3 39.5



#67
Ethyl Benzene
Concen: 3.165 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. -0.000 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

Tgt Ion: 91 Resp: 21680
Ion Ratio Lower Upper
91 100
106 30.1 24.6 36.8

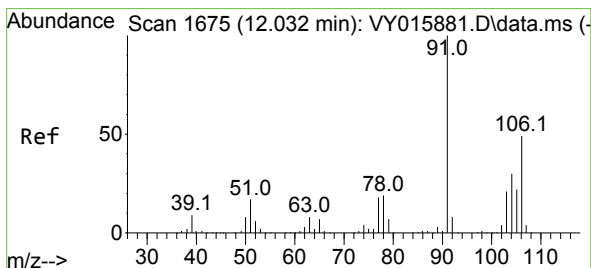
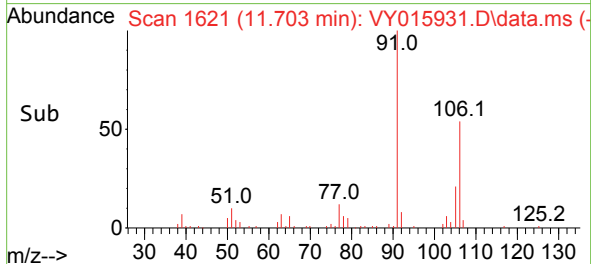
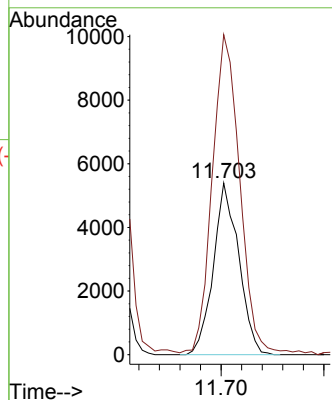
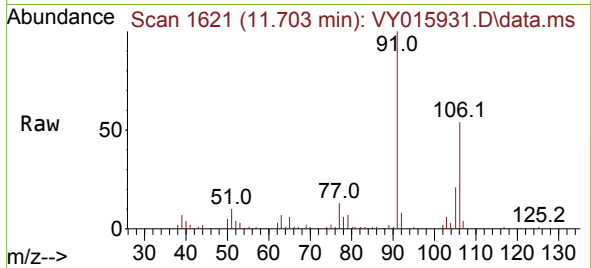




#68
m/p-Xylenes
Concen: 3.582 ug/l
RT: 11.703 min Scan# 1621
Delta R.T. -0.000 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

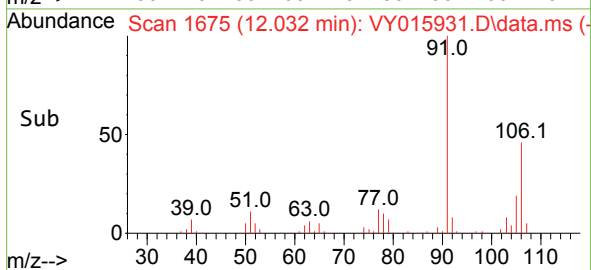
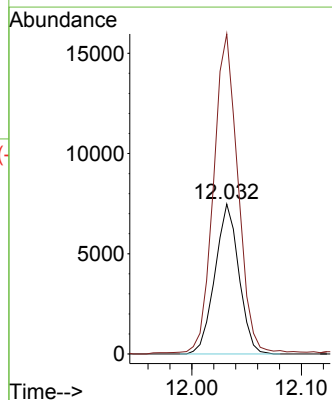
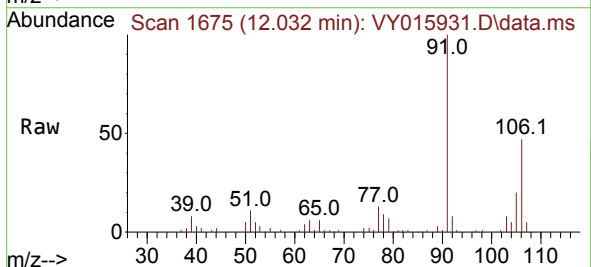
Instrument :
MSVOA_Y
ClientSampleId :

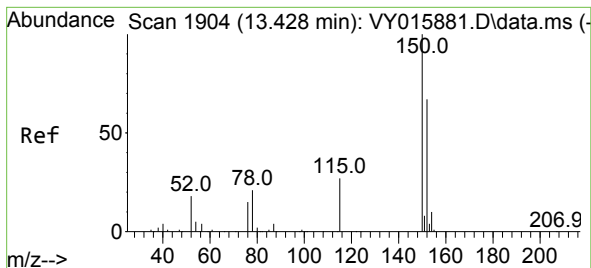
Tgt Ion:106 Resp: 9244
Ion Ratio Lower Upper
106 100
91 203.5 166.1 249.1



#69
o-Xylene
Concen: 4.395 ug/l
RT: 12.032 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

Tgt Ion:106 Resp: 11349
Ion Ratio Lower Upper
106 100
91 220.4 108.1 324.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. -0.000 min

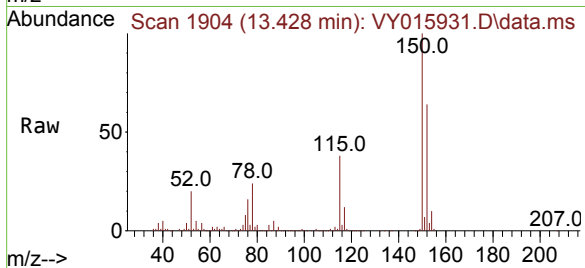
Lab File: VY015931.D

Acq: 11 Oct 2023 18:06

Instrument :

MSVOA_Y

ClientSampleId :



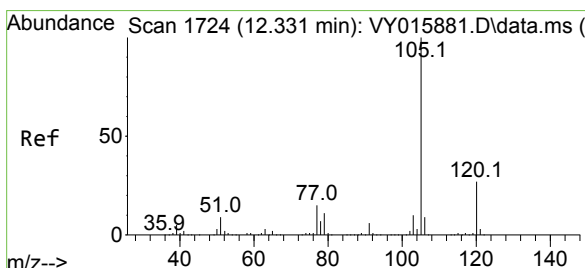
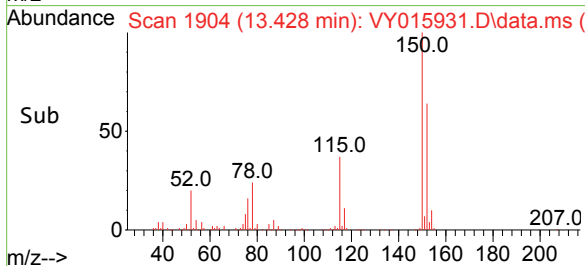
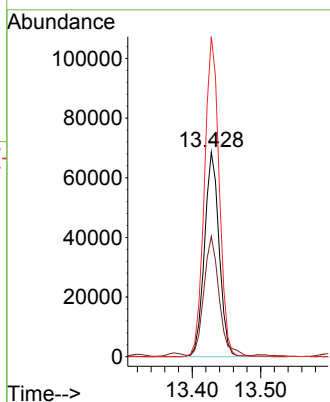
Tgt Ion:152 Resp: 102264

Ion Ratio Lower Upper

152 100

115 61.3 28.8 86.5

150 157.6 0.0 348.8



#73

Isopropylbenzene

Concen: 1.957 ug/l

RT: 12.331 min Scan# 1724

Delta R.T. -0.000 min

Lab File: VY015931.D

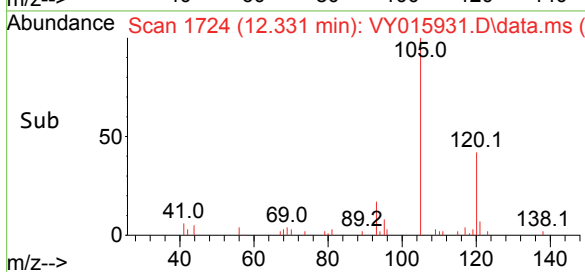
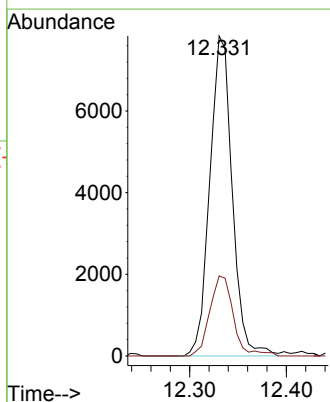
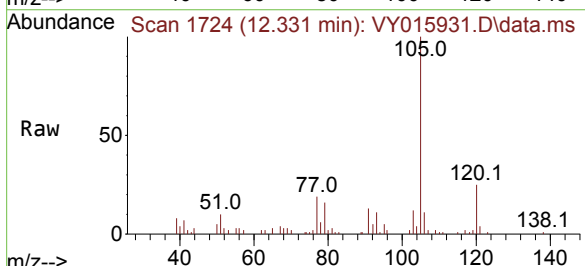
Acq: 11 Oct 2023 18:06

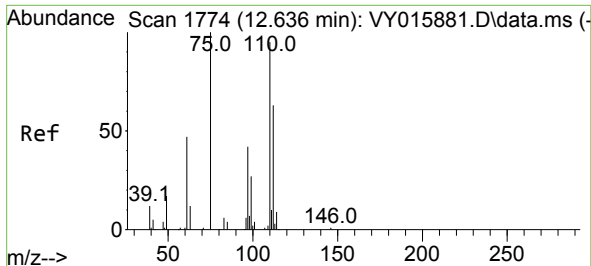
Tgt Ion:105 Resp: 12627

Ion Ratio Lower Upper

105 100

120 26.3 13.3 39.9

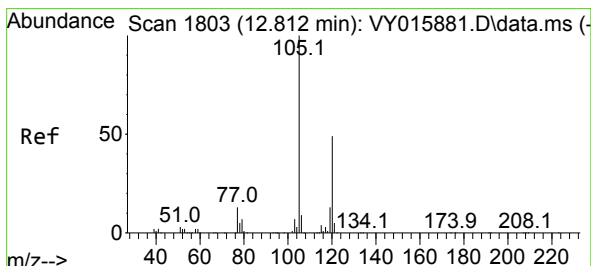
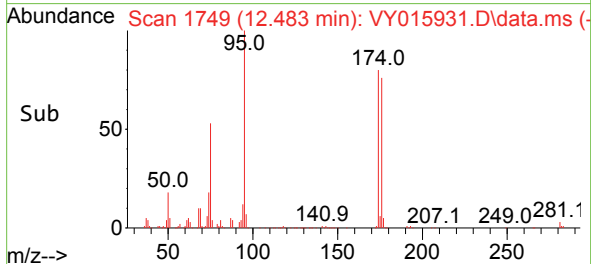
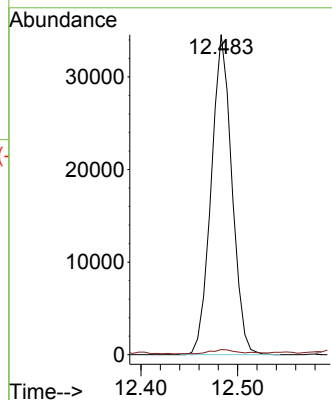
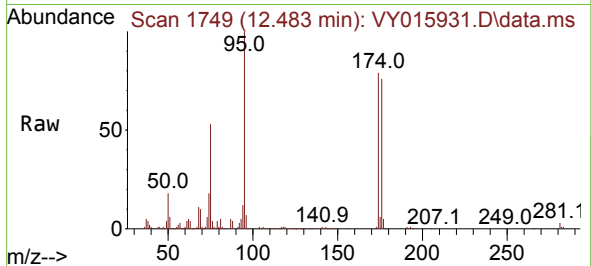




#76
1,2,3-Trichloropropane
Concen: 43.009 ug/l
RT: 12.483 min Scan# 1774
Delta R.T. -0.153 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

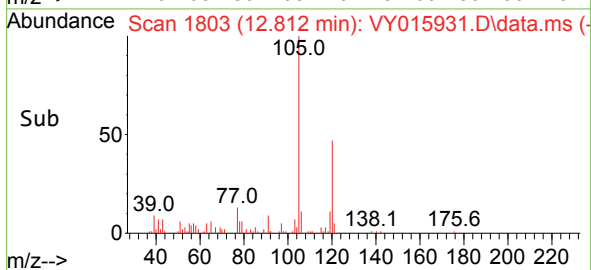
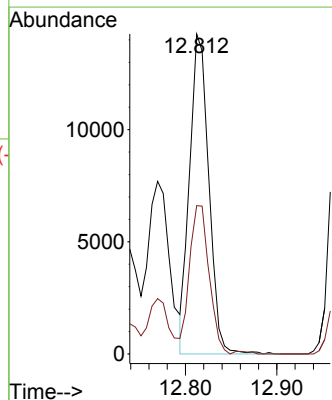
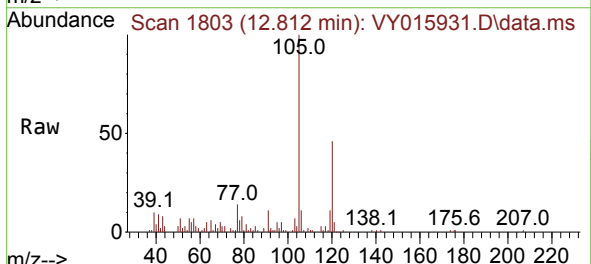
Instrument :
MSVOA_Y
ClientSampleId :

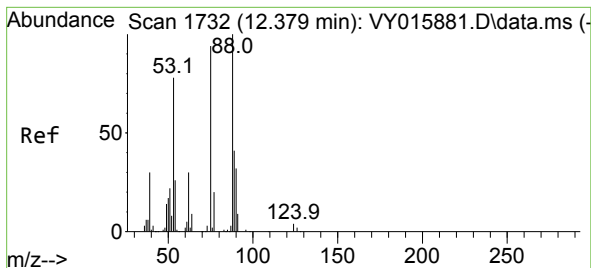
Tgt Ion: 75 Resp: 51345
Ion Ratio Lower Upper
75 100
77 1.6 0.0 0.0#



#80
1,3,5-Trimethylbenzene
Concen: 3.925 ug/l
RT: 12.812 min Scan# 1803
Delta R.T. -0.000 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

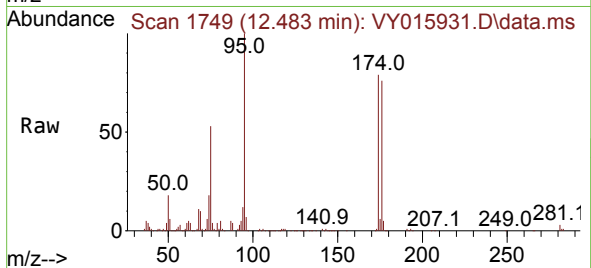
Tgt Ion:105 Resp: 20866
Ion Ratio Lower Upper
105 100
120 47.1 23.9 71.7



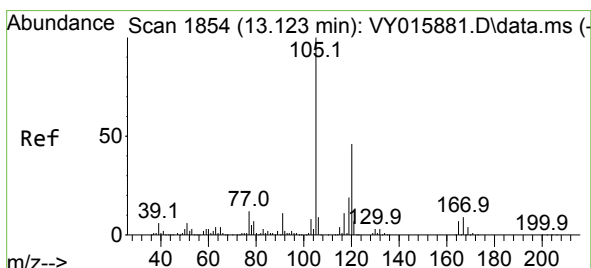
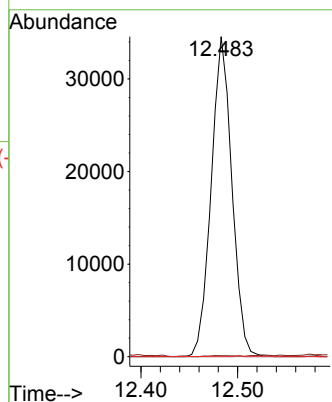
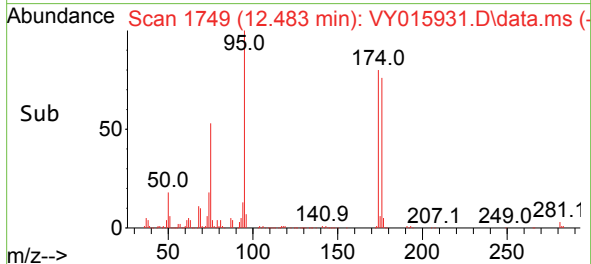


#81
trans-1,4-Dichloro-2-butene
Concen: 95.374 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.103 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

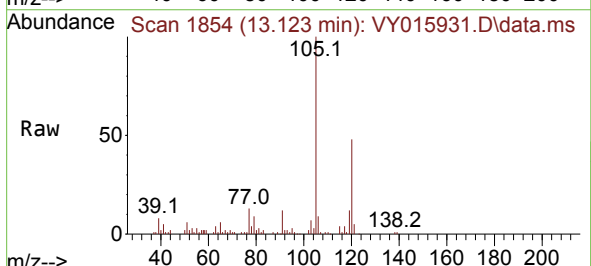
Instrument :
MSVOA_Y
ClientSampleId :



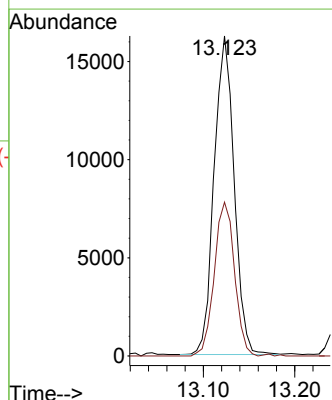
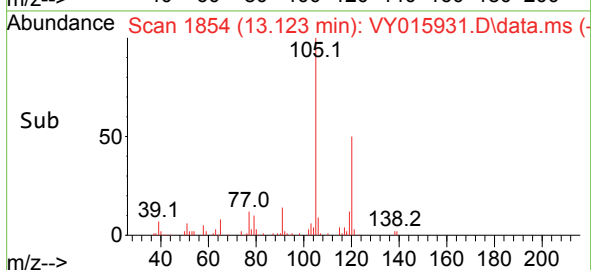
Tgt Ion: 75 Resp: 51345
Ion Ratio Lower Upper
75 100
53 0.5 77.8 116.8#
89 0.0 37.4 56.0#

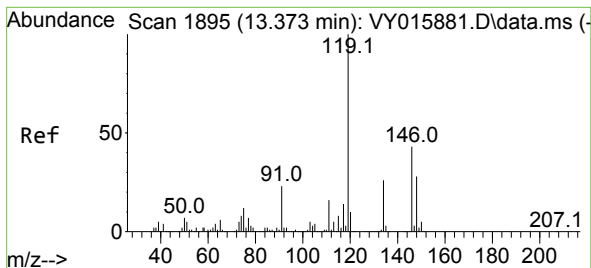


#84
1,2,4-Trimethylbenzene
Concen: 4.611 ug/l
RT: 13.123 min Scan# 1854
Delta R.T. -0.000 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06



Tgt Ion: 105 Resp: 24688
Ion Ratio Lower Upper
105 100
120 48.8 22.2 66.6

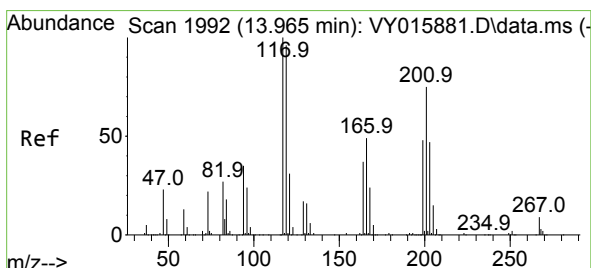
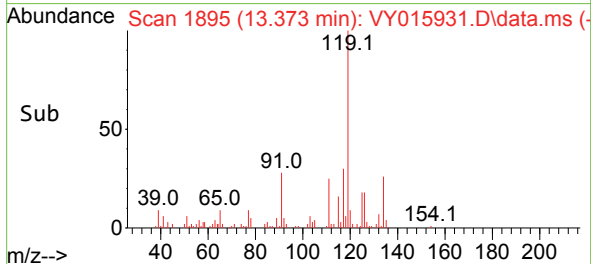
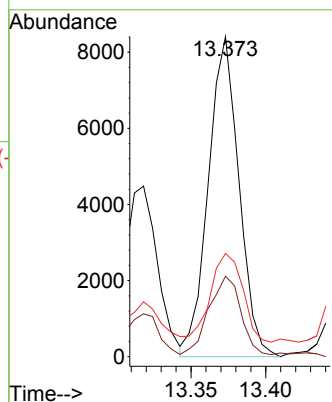
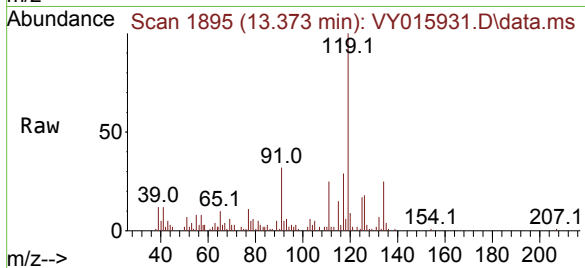




#86
p-Isopropyltoluene
Concen: 1.990 ug/l
RT: 13.373 min Scan# 11977
Delta R.T. -0.000 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

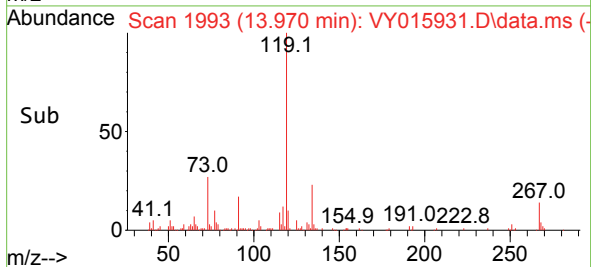
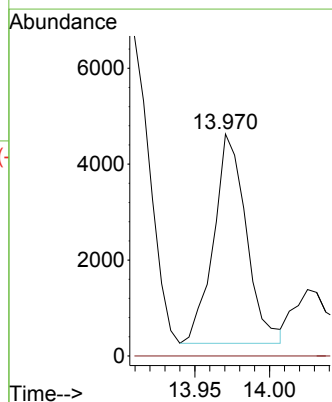
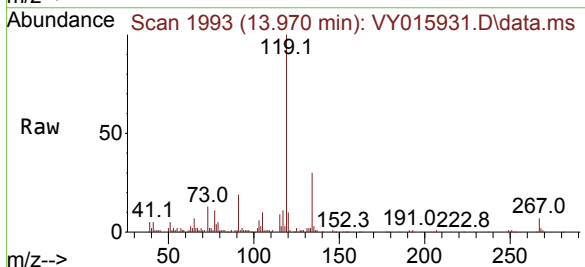
Instrument :
MSVOA_Y
ClientSampleId :

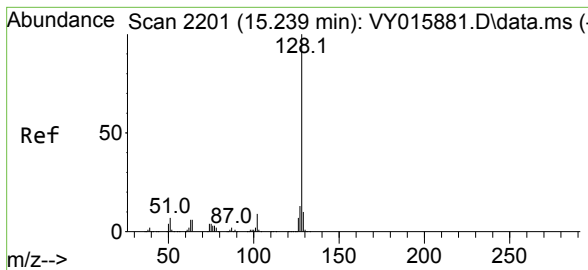
Tgt Ion:	119	Resp:	11977
Ion	Ratio	Lower	Upper
119	100		
134	25.4	13.3	39.8
91	29.3	12.4	37.4



#90
Hexachloroethane
Concen: 5.493 ug/l
RT: 13.970 min Scan# 1993
Delta R.T. 0.006 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

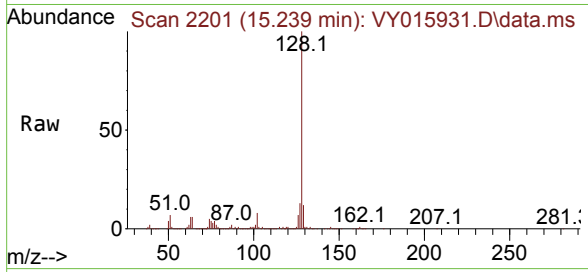
Tgt Ion:	117	Resp:	6636
Ion	Ratio	Lower	Upper
117	100		
201	0.0	41.6	124.8#





#95
Naphthalene
Concen: 57.045 ug/l
RT: 15.239 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY015931.D
Acq: 11 Oct 2023 18:06

Instrument :
MSVOA_Y
ClientSampleId :



Tgt Ion:128 Resp: 250359
Ion Ratio Lower Upper
128 100
127 12.6 10.8 16.2
129 11.7 8.6 13.0

