

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081723\
 Data File : VY015165.D
 Acq On : 17 Aug 2023 12:31
 Operator : SY/MD
 Sample : 03958-01
 Misc : 6.69g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 18 00:52:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081423S.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 14 12:43:26 2023
 Response via : Initial Calibration

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

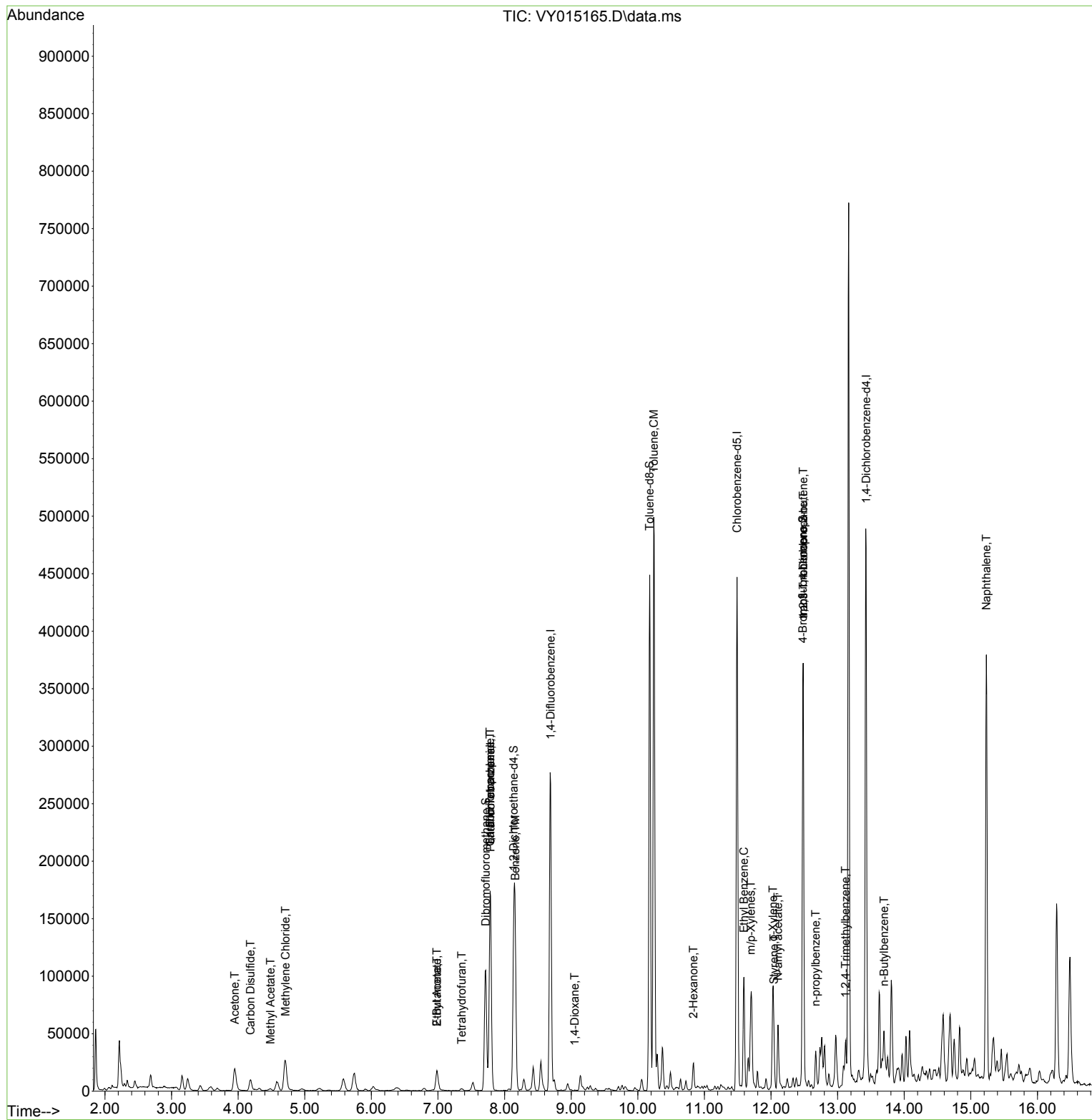
Internal Standards						
1) Pentafluorobenzene	7.789	168	133612	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	237411	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	236057	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	122594	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	87608	54.622	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 109.240%			
35) Dibromofluoromethane	7.716	113	73357	48.029	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 96.060%			
50) Toluene-d8	10.179	98	284245	49.993	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 99.980%			
62) 4-Bromofluorobenzene	12.477	95	110999	53.450	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 106.900%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.107	50	1951	Below Cal		92
5) Bromomethane	2.668	94	433	Below Cal	#	51
11) Tert butyl alcohol	4.960	59	3353	Below Cal	#	91
13) Acrolein	3.729	56	93	Below Cal	#	14
16) Acetone	3.948	43	33059	63.094	ug/l	90
17) Carbon Disulfide	4.186	76	19789	12.094	ug/l	99
18) Methyl Acetate	4.485	43	3412	1.777	ug/l	98
20) Methylene Chloride	4.710	84	20224	12.892	ug/l	91
25) 2-Butanone	6.984	43	29320	39.521	ug/l	99
29) Tetrahydrofuran	7.356	42	1143	2.577	ug/l	94
31) Cyclohexane	7.783	56	3539	Below Cal	#	1
36) 1,1-Dichloropropene	7.783	75	10511	6.221	ug/l	# 49
37) Ethyl Acetate	6.984	43	29320	18.615	ug/l	# 72
38) Carbon Tetrachloride	7.783	117	13167	6.584	ug/l	# 16
40) Benzene	8.161	78	116009	22.708	ug/l	96
49) 1,4-Dioxane	9.051	88	19	1.046	ug/l	# 36
52) Toluene	10.240	92	209720	62.283	ug/l	93
59) 2-Hexanone	10.837	43	14020	11.396	ug/l	93
67) Ethyl Benzene	11.593	91	63016	8.362	ug/l	98
68) m/p-Xylenes	11.697	106	18941	6.618	ug/l	98
69) o-Xylene	12.032	106	19371	6.794	ug/l	97
70) Styrene	12.044	104	12866	2.607	ug/l	# 83
74) N-amyl acetate	12.105	43	31852	11.191	ug/l	# 51
76) 1,2,3-Trichloropropane	12.483	75	58058	38.980	ug/l	# 100
78) n-propylbenzene	12.672	91	22011	2.351	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.483	75	58058	85.619	ug/l	# 10
84) 1,2,4-Trimethylbenzene	13.117	105	17500	2.665	ug/l	97
89) n-Butylbenzene	13.696	91	19925	2.894	ug/l	# 88
95) Naphthalene	15.233	128	295406	51.880	ug/l	99

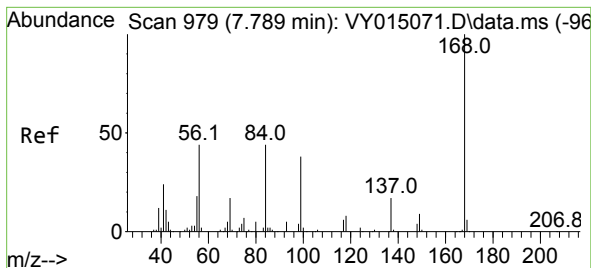
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 14 12:43:26 2023
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.789 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY015165.D

Acq: 17 Aug 2023 12:31

Instrument :

MSVOA_Y

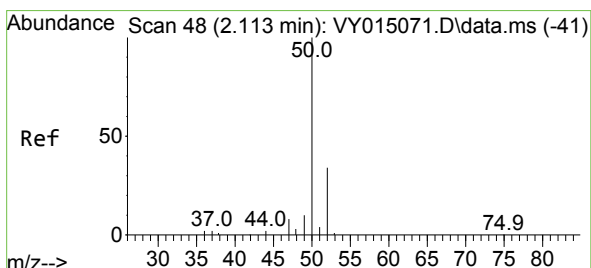
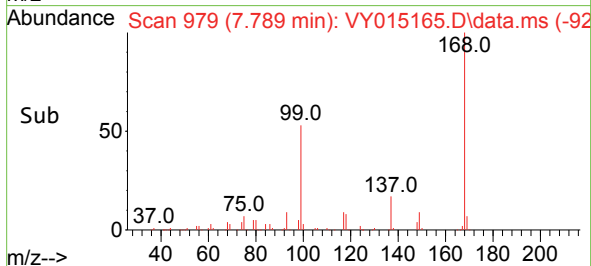
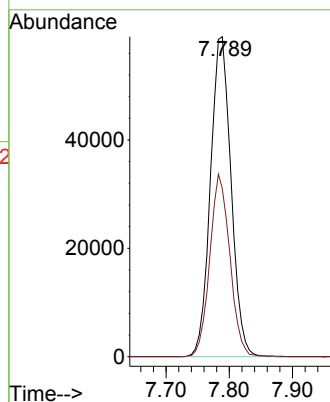
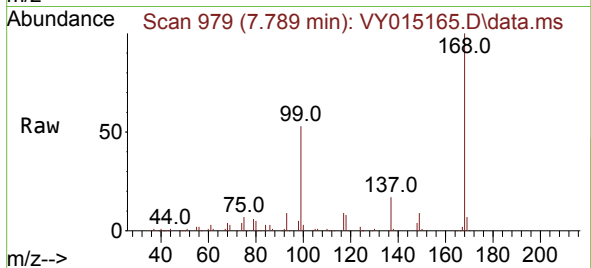
ClientSampleId :

Tgt Ion:168 Resp: 133612

Ion Ratio Lower Upper

168 100

99 52.6 43.4 65.0



#3

Chloromethane

Concen: Below Cal

RT: 2.107 min Scan# 47

Delta R.T. 0.000 min

Lab File: VY015165.D

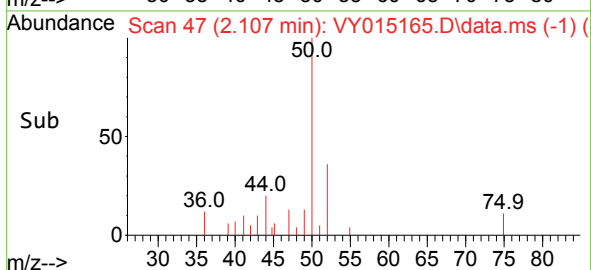
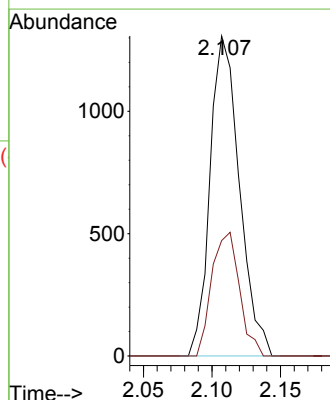
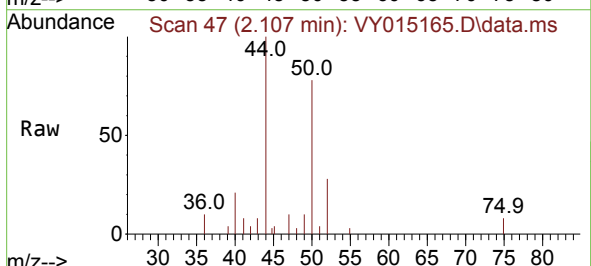
Acq: 17 Aug 2023 12:31

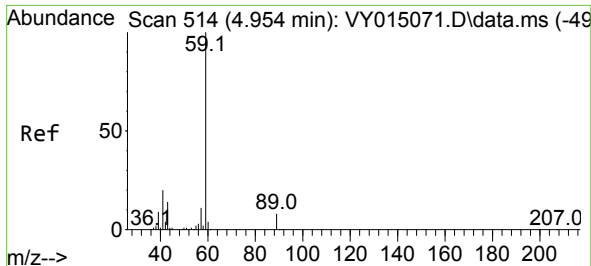
Tgt Ion: 50 Resp: 1951

Ion Ratio Lower Upper

50 100

52 36.1 25.4 38.2





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.960 min Scan# 514

Delta R.T. 0.012 min

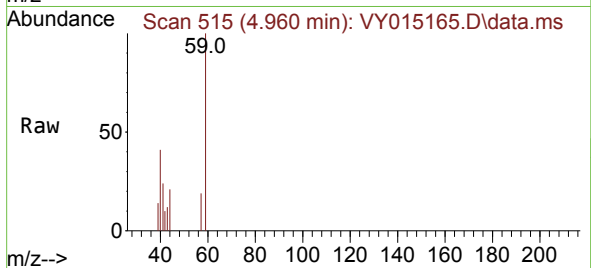
Lab File: VY015165.D

Acq: 17 Aug 2023 12:31

Instrument :

MSVOA_Y

ClientSampleId :

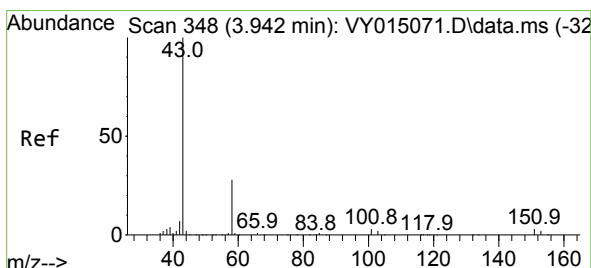
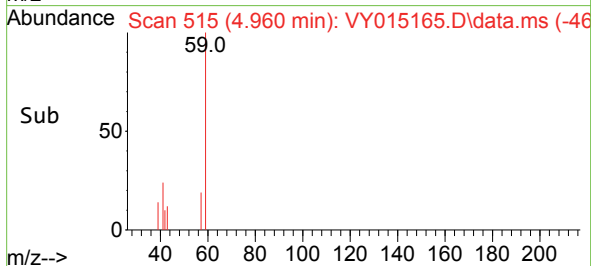
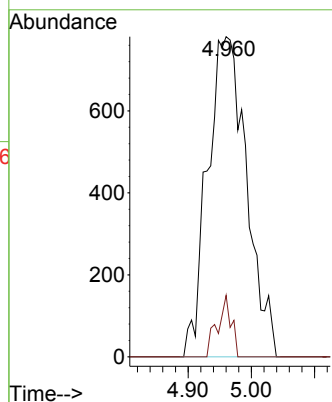


Tgt Ion: 59 Resp: 3353

Ion Ratio Lower Upper

59 100

57 6.8 3.0 4.4#



#16

Acetone

Concen: 63.094 ug/l

RT: 3.948 min Scan# 349

Delta R.T. 0.006 min

Lab File: VY015165.D

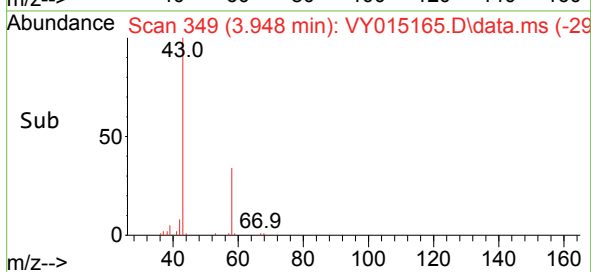
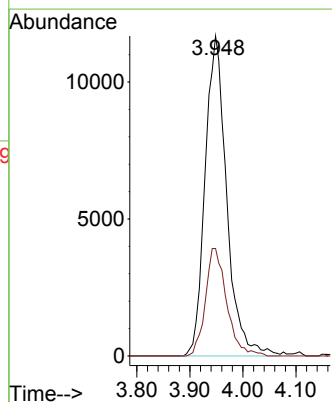
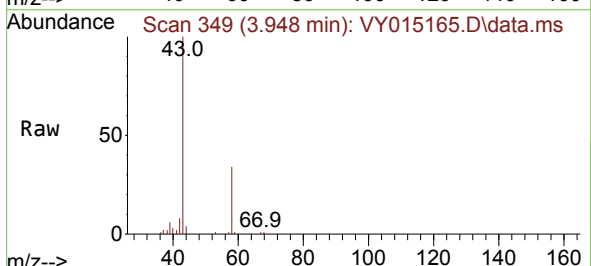
Acq: 17 Aug 2023 12:31

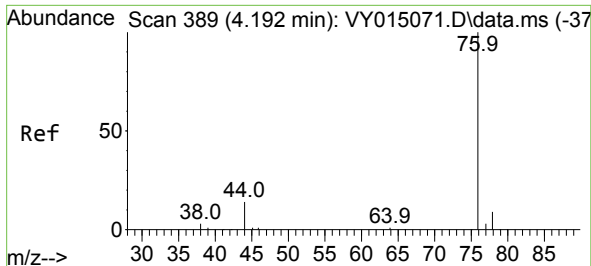
Tgt Ion: 43 Resp: 33059

Ion Ratio Lower Upper

43 100

58 33.6 22.7 34.1

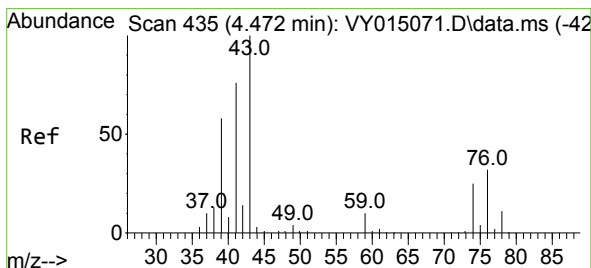
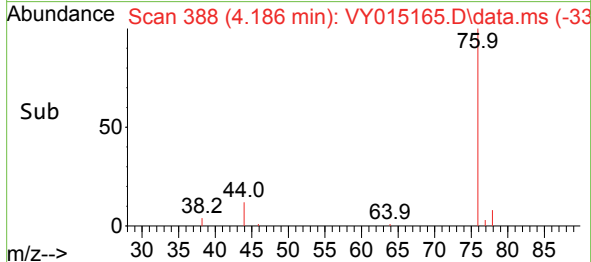
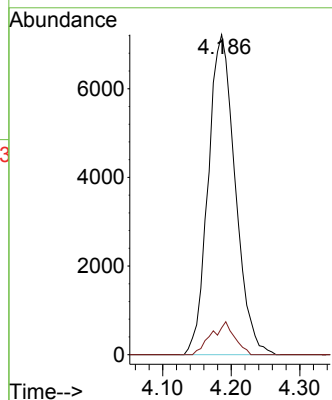
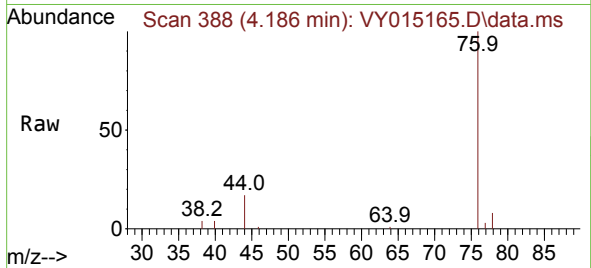




#17
Carbon Disulfide
Concen: 12.094 ug/l
RT: 4.186 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

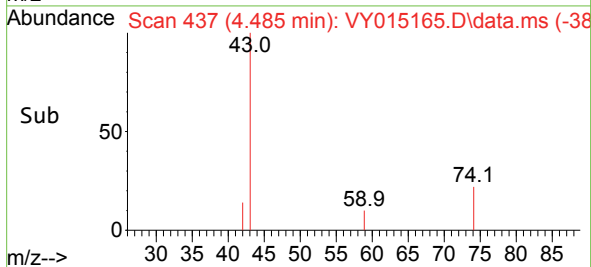
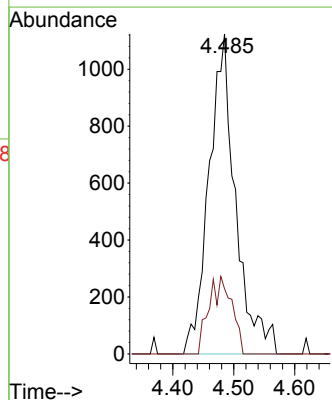
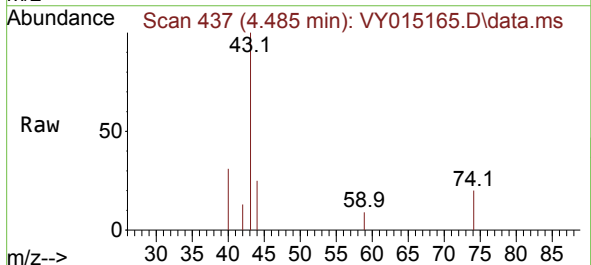
Instrument :
MSVOA_Y
ClientSampleId :

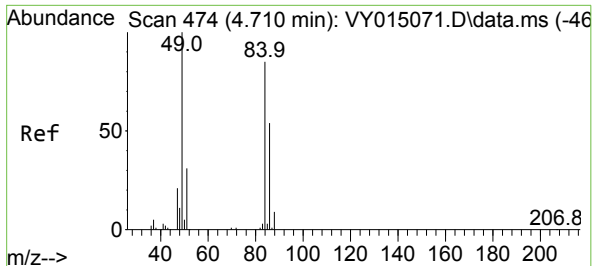
Tgt Ion: 76 Resp: 19789
Ion Ratio Lower Upper
76 100
78 8.4 7.0 10.4



#18
Methyl Acetate
Concen: 1.777 ug/l
RT: 4.485 min Scan# 437
Delta R.T. 0.019 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

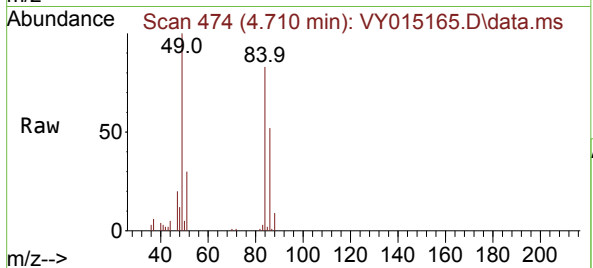
Tgt Ion: 43 Resp: 3412
Ion Ratio Lower Upper
43 100
74 20.8 17.4 26.0



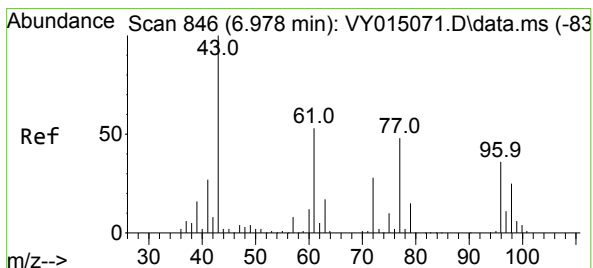
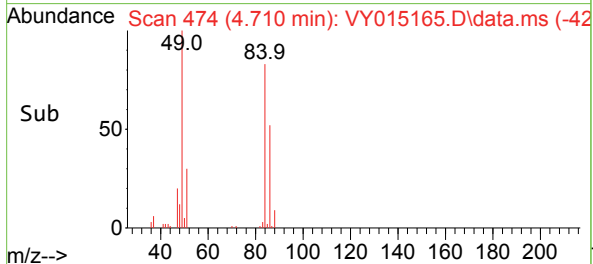
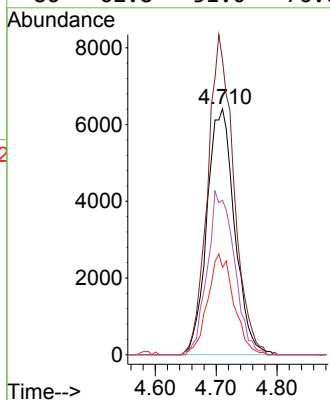


#20
Methylene Chloride
Concen: 12.892 ug/l
RT: 4.710 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

Instrument :
MSVOA_Y
ClientSampleId :

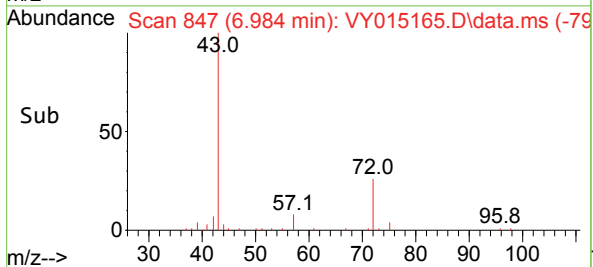
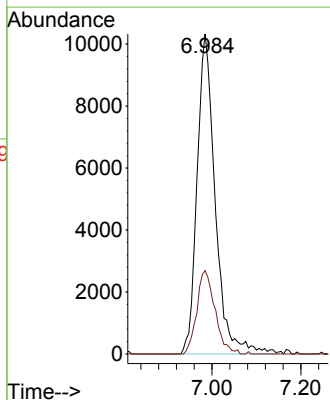
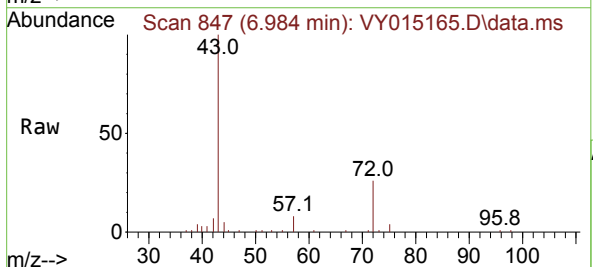


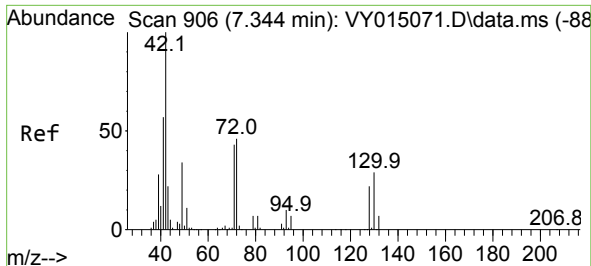
Tgt Ion:	84	Resp:	20224
Ion	Ratio	Lower	Upper
84	100		
49	119.8	106.9	160.3
51	35.5	33.2	49.8
86	62.8	51.0	76.6



#25
2-Butanone
Concen: 39.521 ug/l
RT: 6.984 min Scan# 847
Delta R.T. 0.006 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

Tgt Ion:	43	Resp:	29320
Ion	Ratio	Lower	Upper
43	100		
72	26.0	20.5	30.7





#29

Tetrahydrofuran

Concen: 2.577 ug/l

RT: 7.356 min Scan# 906

Delta R.T. 0.012 min

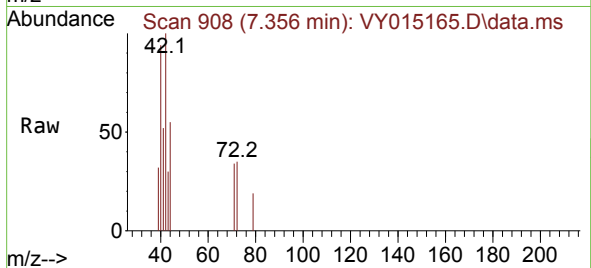
Lab File: VY015165.D

Acq: 17 Aug 2023 12:31

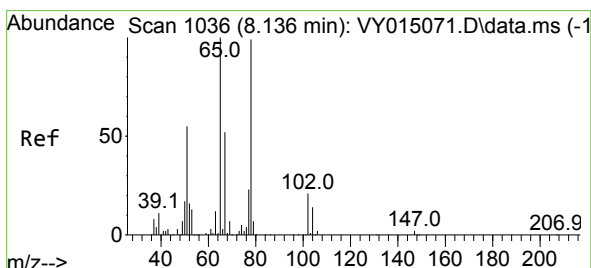
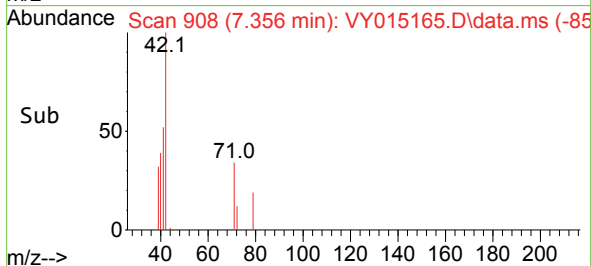
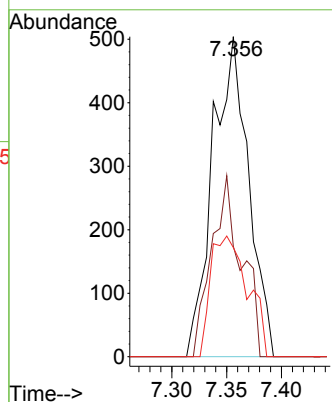
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	42	Resp:	1143
Ion	Ratio	Lower	Upper
42	100		
72	47.3	32.8	49.2
71	39.1	31.0	46.4



#33

1,2-Dichloroethane-d4

Concen: 54.622 ug/l

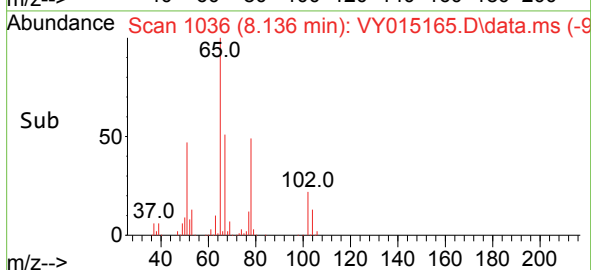
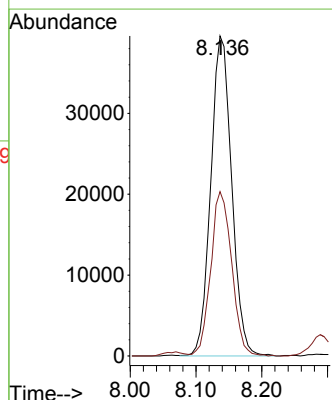
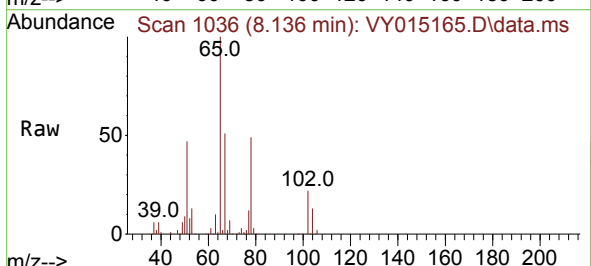
RT: 8.136 min Scan# 1036

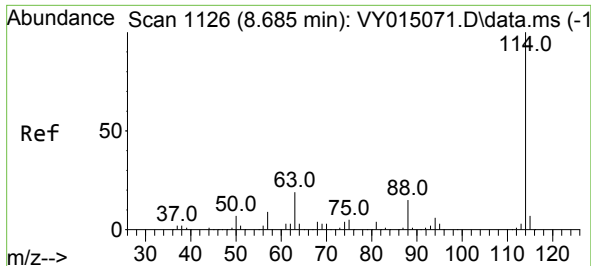
Delta R.T. 0.000 min

Lab File: VY015165.D

Acq: 17 Aug 2023 12:31

Tgt Ion:	65	Resp:	87608
Ion	Ratio	Lower	Upper
65	100		
67	51.5	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: VY015165.D

Acq: 17 Aug 2023 12:31

Instrument :

MSVOA_Y

ClientSampleId :

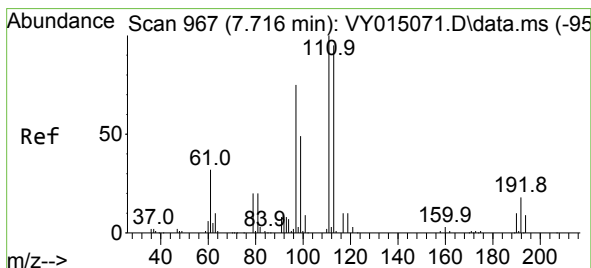
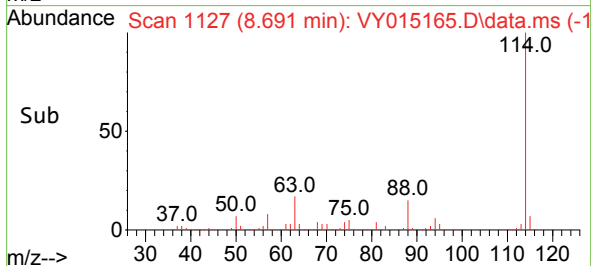
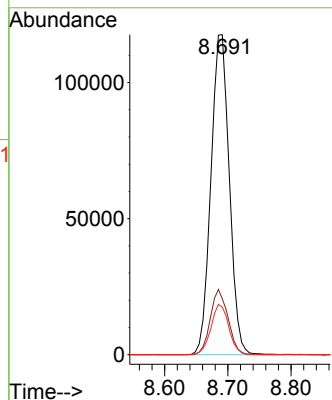
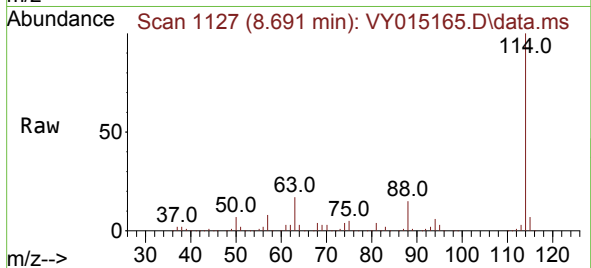
Tgt Ion:114 Resp: 237411

Ion Ratio Lower Upper

114 100

63 17.5 0.0 42.4

88 14.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 48.029 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY015165.D

Acq: 17 Aug 2023 12:31

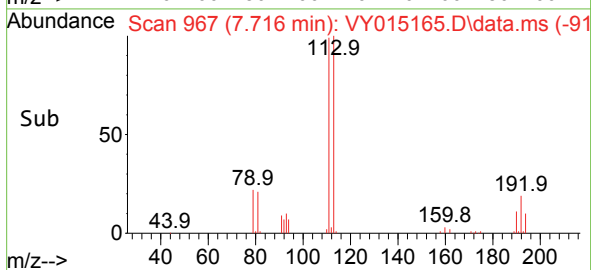
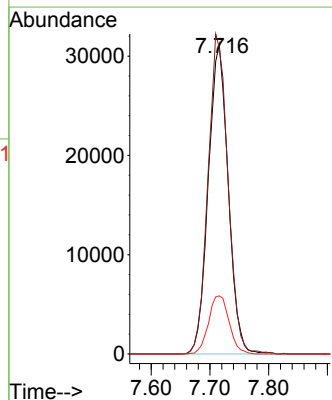
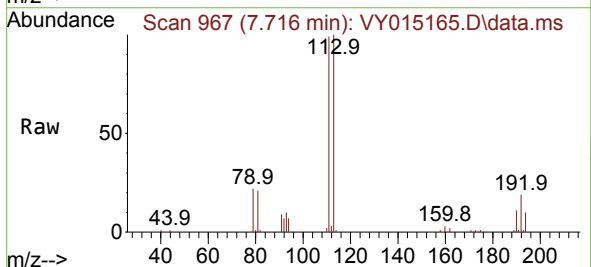
Tgt Ion:113 Resp: 73357

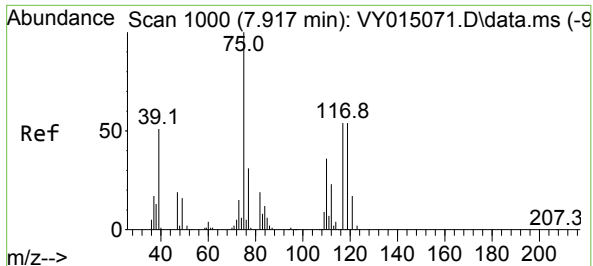
Ion Ratio Lower Upper

113 100

111 103.9 81.3 121.9

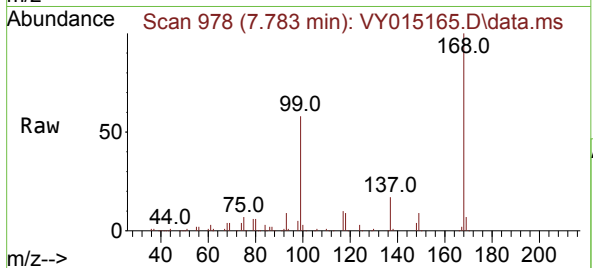
192 19.5 16.9 25.3



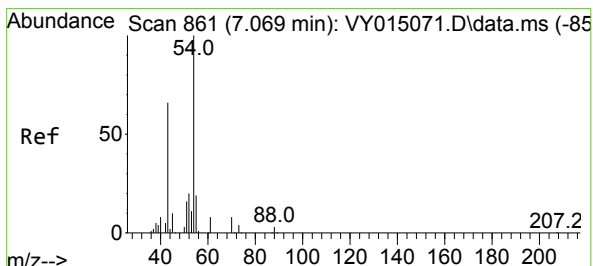
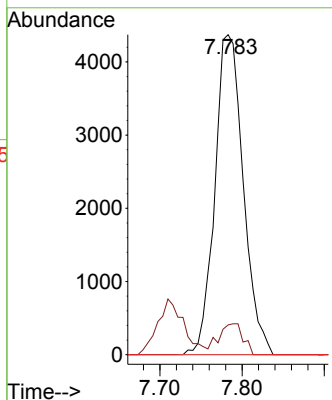
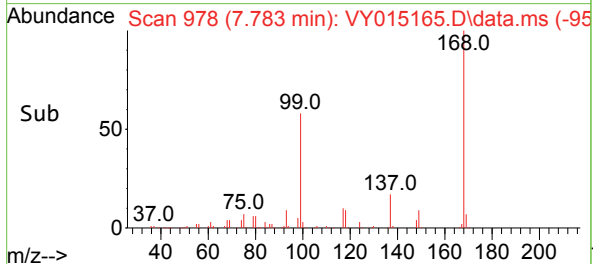


#36
1,1-Dichloropropene
Concen: 6.221 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.128 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

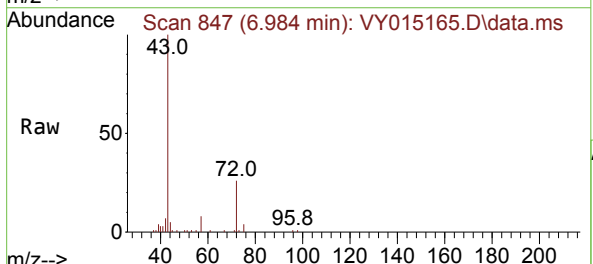
Instrument :
MSVOA_Y
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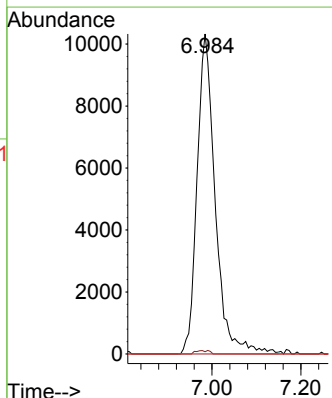
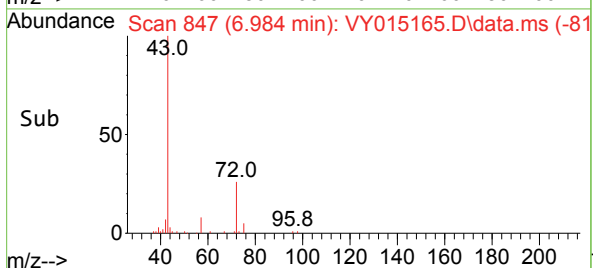
Tgt Ion: 75 Resp: 10511
Ion Ratio Lower Upper
75 100
110 8.2 17.8 53.5#
77 0.0 24.4 36.6#

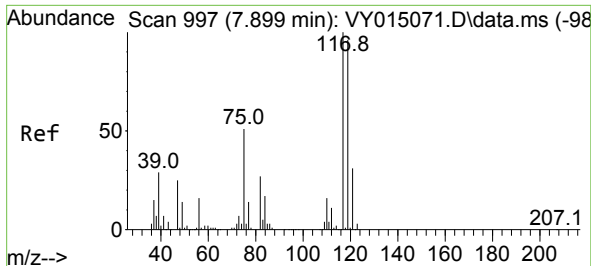


#37
Ethyl Acetate
Concen: 18.615 ug/l
RT: 6.984 min Scan# 847
Delta R.T. -0.085 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31



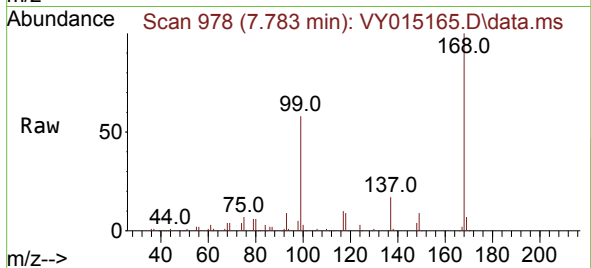
Tgt Ion: 43 Resp: 29320
Ion Ratio Lower Upper
43 100
61 0.8 10.1 15.1#
70 0.0 7.1 10.7#



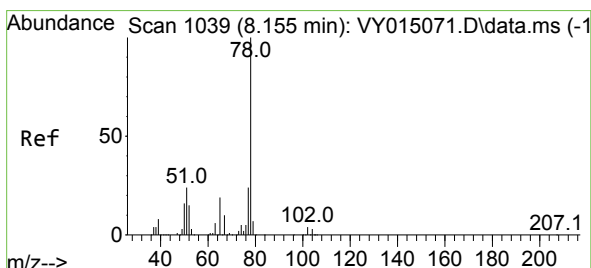
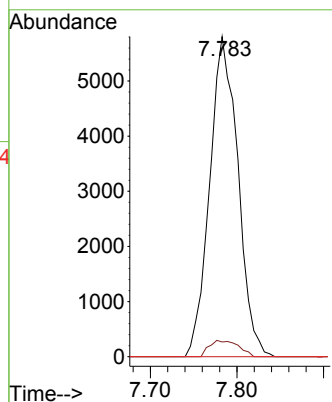
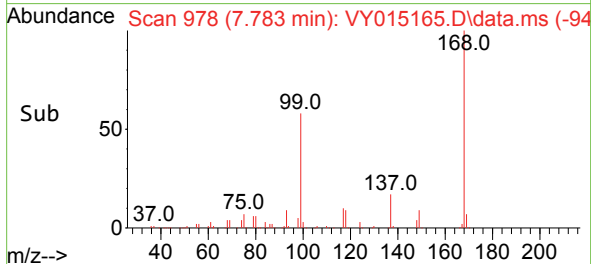


#38
Carbon Tetrachloride
Concen: 6.584 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

Instrument :
MSVOA_Y
ClientSampleId :

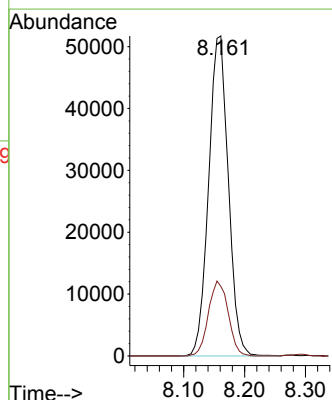
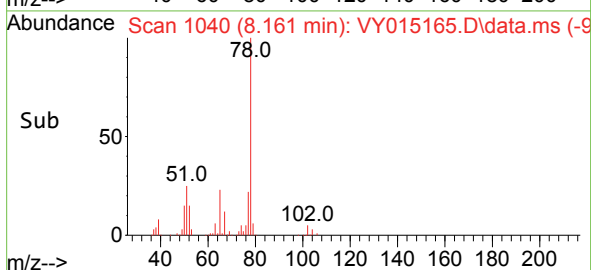
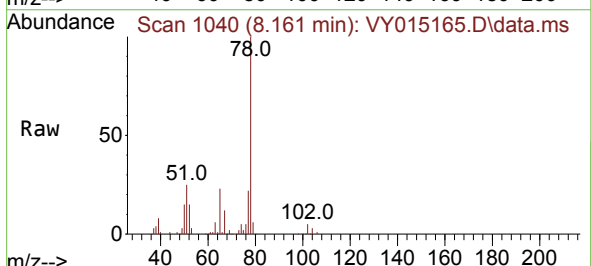


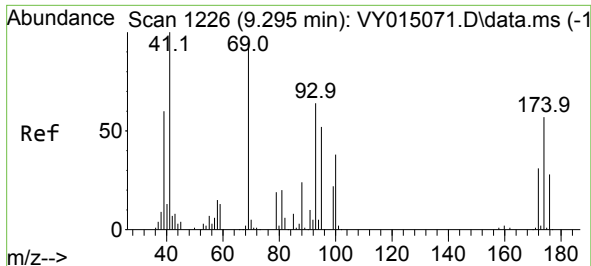
Tgt Ion:117 Resp: 13167
Ion Ratio Lower Upper
117 100
119 4.6 76.4 114.6#
121 0.0 25.8 38.6#



#40
Benzene
Concen: 22.708 ug/l
RT: 8.161 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

Tgt Ion: 78 Resp: 116009
Ion Ratio Lower Upper
78 100
77 21.8 19.0 28.6





#49

1,4-Dioxane

Concen: 1.046 ug/l

RT: 9.051 min Scan# 1186

Delta R.T. -0.244 min

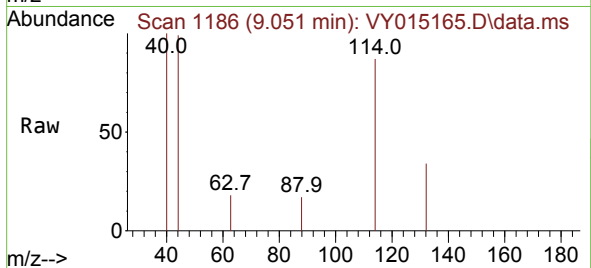
Lab File: VY015165.D

Acq: 17 Aug 2023 12:31

Instrument :

MSVOA_Y

ClientSampleId :



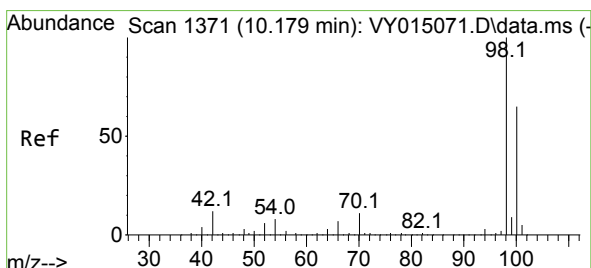
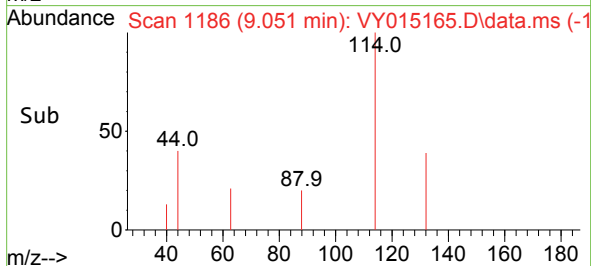
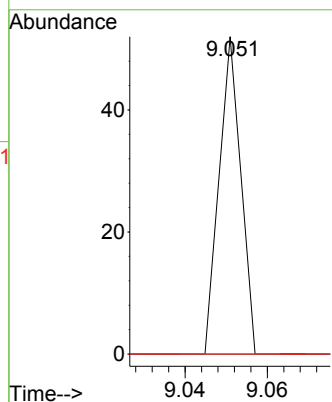
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 0.0 30.9 46.3#



#50

Toluene-d8

Concen: 49.993 ug/l

RT: 10.179 min Scan# 1371

Delta R.T. 0.000 min

Lab File: VY015165.D

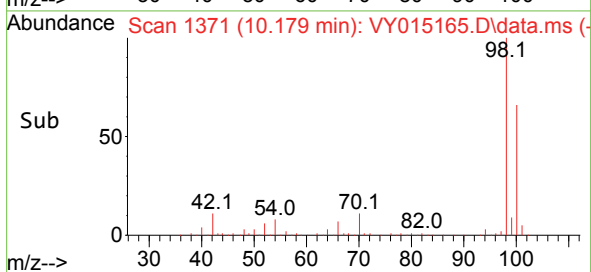
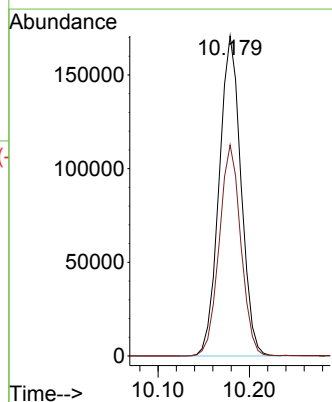
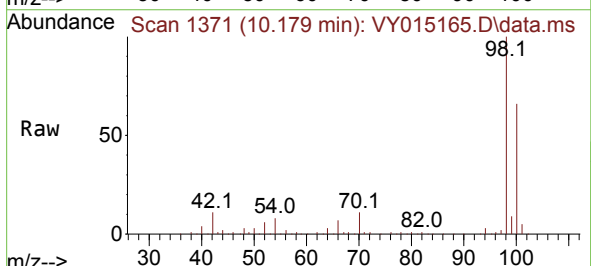
Acq: 17 Aug 2023 12:31

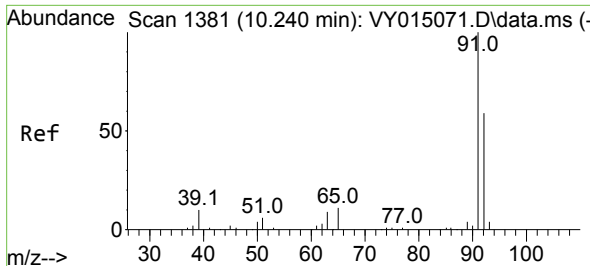
Tgt Ion: 98 Resp: 284245

Ion Ratio Lower Upper

98 100

100 65.1 50.1 75.1

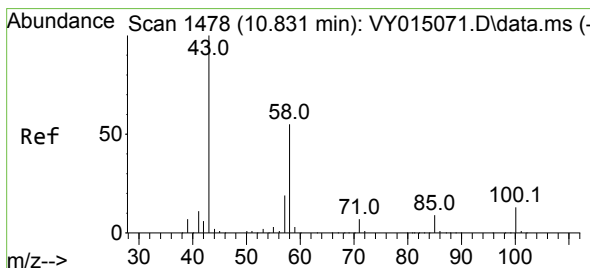
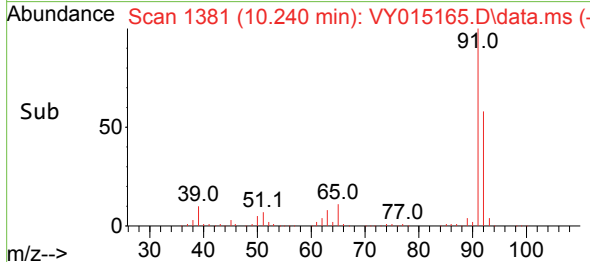
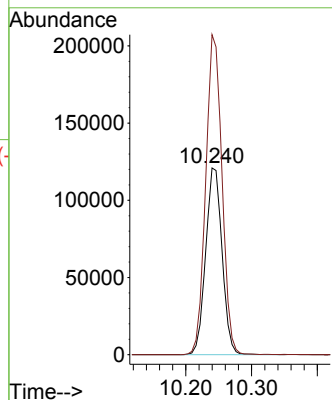
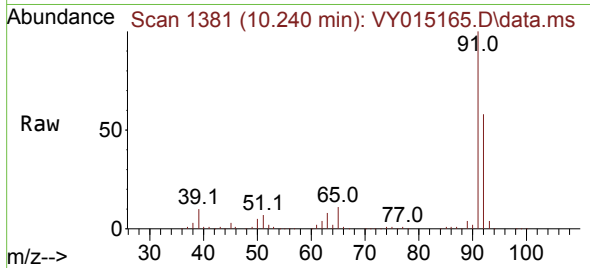




#52
Toluene
Concen: 62.283 ug/l
RT: 10.240 min Scan# 1381
Delta R.T. 0.000 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

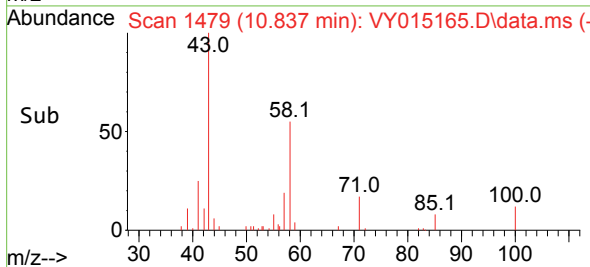
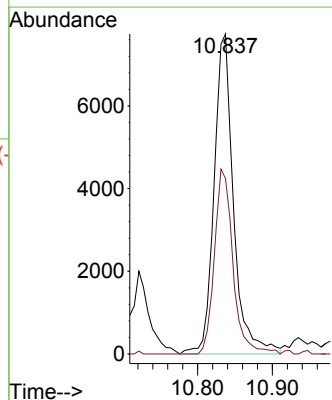
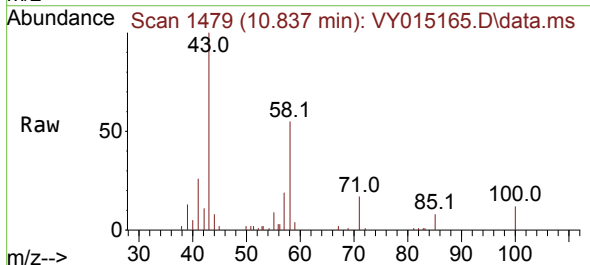
Instrument :
MSVOA_Y
ClientSampleId :

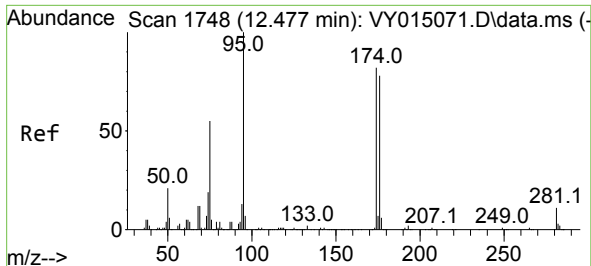
Tgt Ion: 92 Resp: 209720
Ion Ratio Lower Upper
92 100
91 169.9 143.8 215.6



#59
2-Hexanone
Concen: 11.396 ug/l
RT: 10.837 min Scan# 1479
Delta R.T. 0.006 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

Tgt Ion: 43 Resp: 14020
Ion Ratio Lower Upper
43 100
58 55.1 25.1 75.3

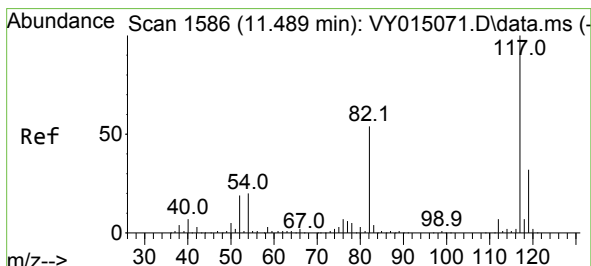
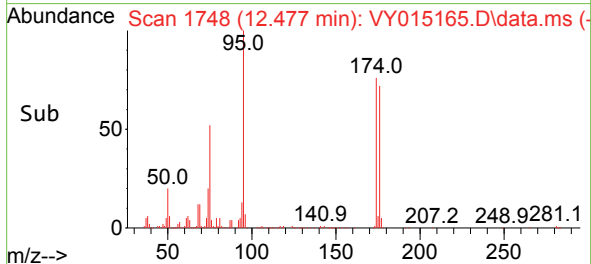
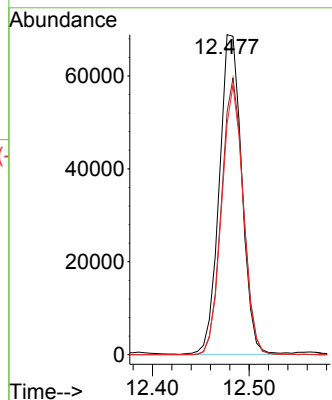
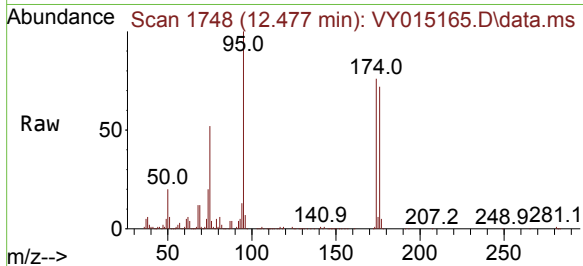




#62
4-Bromofluorobenzene
Concen: 53.450 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

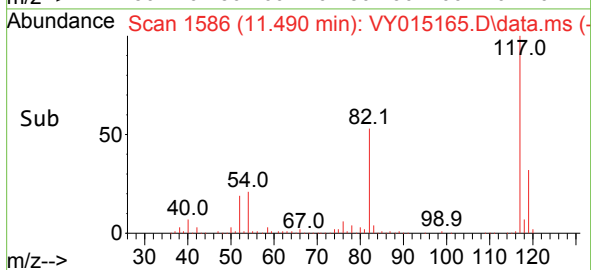
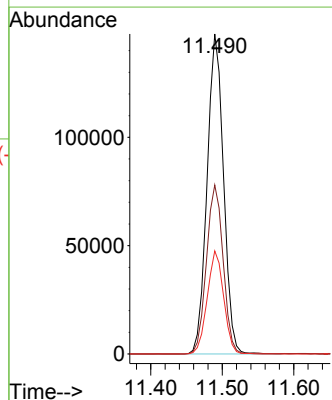
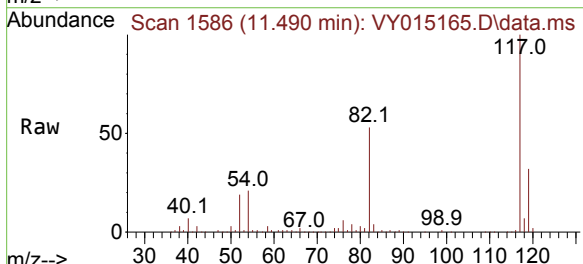
Instrument :
MSVOA_Y
ClientSampleId :

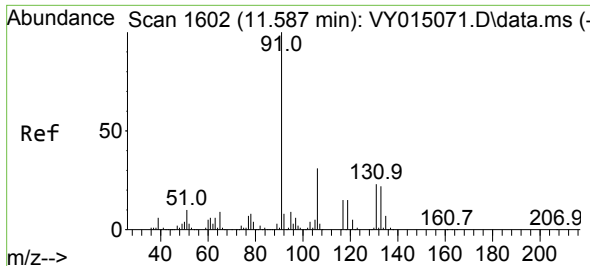
Tgt Ion: 95 Resp: 110999
Ion Ratio Lower Upper
95 100
174 83.9 0.0 178.2
176 81.0 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

Tgt Ion: 117 Resp: 236057
Ion Ratio Lower Upper
117 100
82 52.8 43.4 65.0
119 32.2 26.3 39.5





#67

Ethyl Benzene

Concen: 8.362 ug/l

RT: 11.593 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015165.D

Acq: 17 Aug 2023 12:31

Instrument :

MSVOA_Y

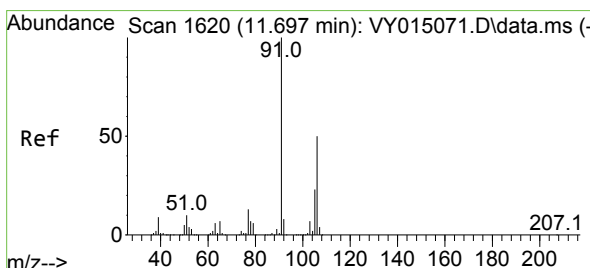
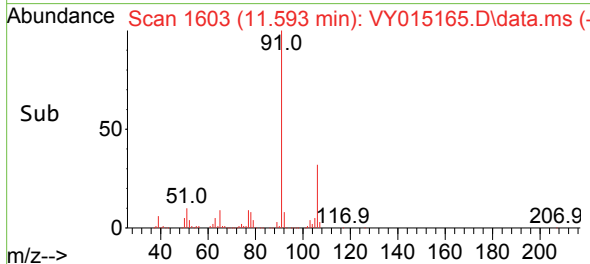
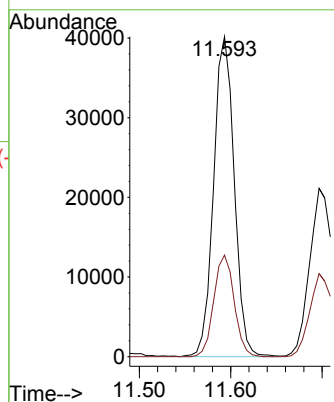
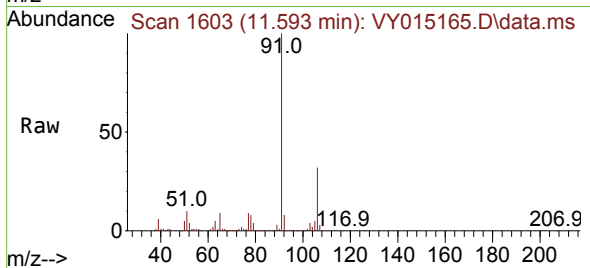
ClientSampleId :

Tgt Ion: 91 Resp: 63016

Ion Ratio Lower Upper

91 100

106 31.8 24.6 36.8



#68

m/p-Xylenes

Concen: 6.618 ug/l

RT: 11.697 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VY015165.D

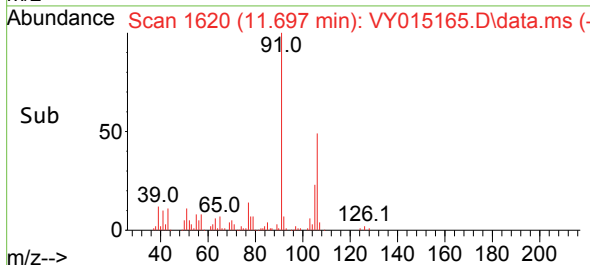
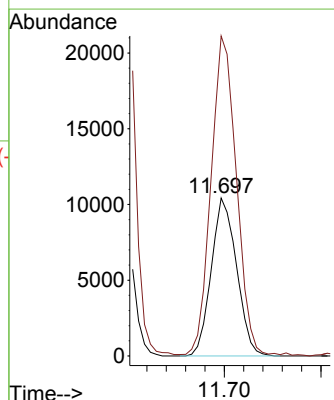
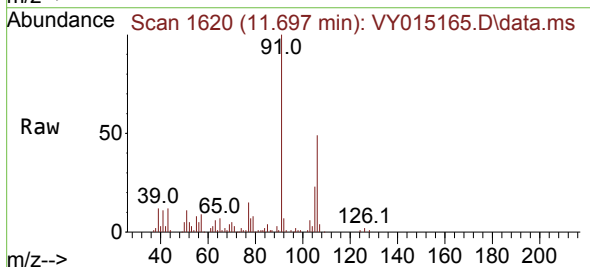
Acq: 17 Aug 2023 12:31

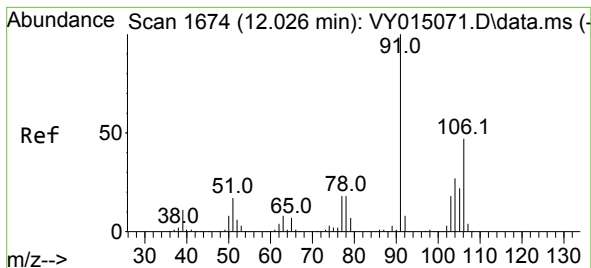
Tgt Ion: 106 Resp: 18941

Ion Ratio Lower Upper

106 100

91 204.5 166.1 249.1





#69

o-Xylene

Concen: 6.794 ug/l

RT: 12.032 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY015165.D

Acq: 17 Aug 2023 12:31

Instrument :

MSVOA_Y

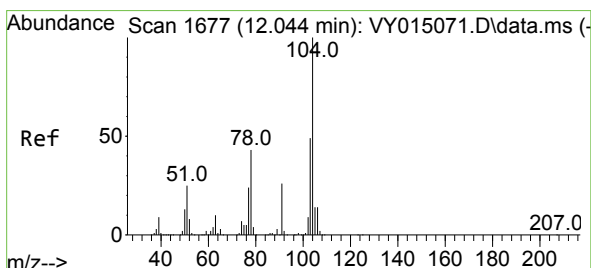
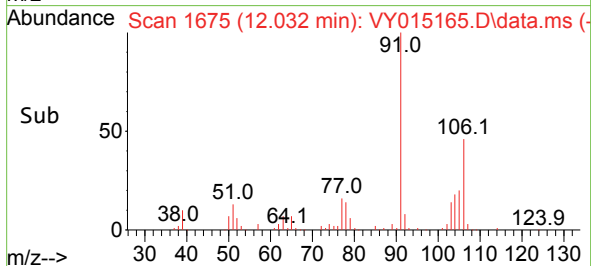
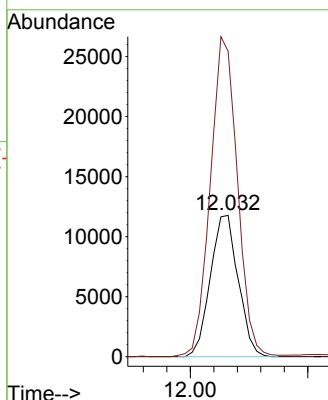
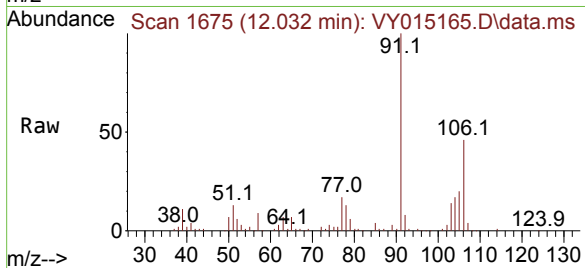
ClientSampleId :

Tgt Ion:106 Resp: 19371

Ion Ratio Lower Upper

106 100

91 220.4 108.1 324.3



#70

Styrene

Concen: 2.607 ug/l

RT: 12.044 min Scan# 1677

Delta R.T. 0.000 min

Lab File: VY015165.D

Acq: 17 Aug 2023 12:31

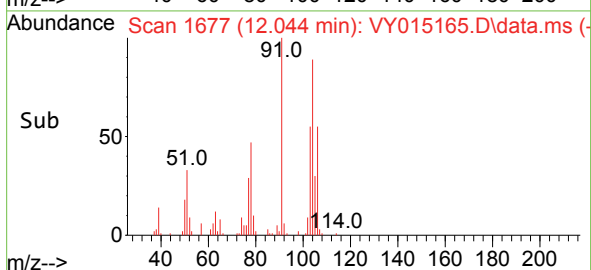
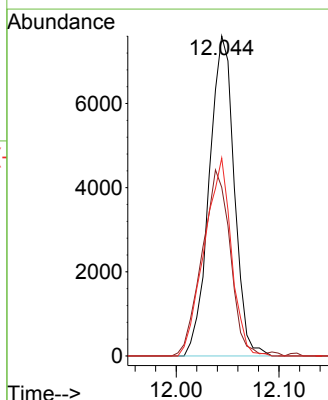
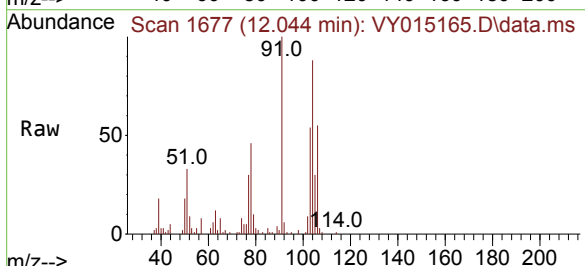
Tgt Ion:104 Resp: 12866

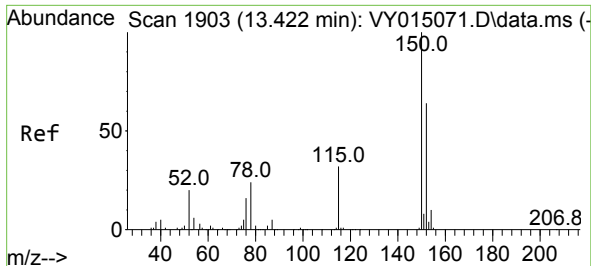
Ion Ratio Lower Upper

104 100

78 65.6 41.5 62.3#

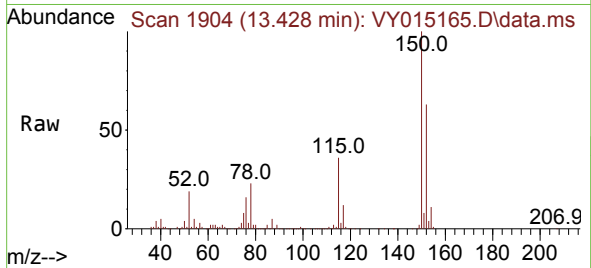
103 67.0 44.6 67.0



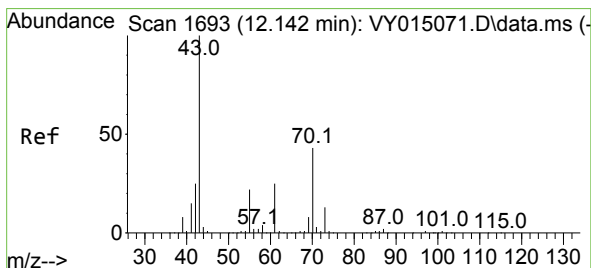
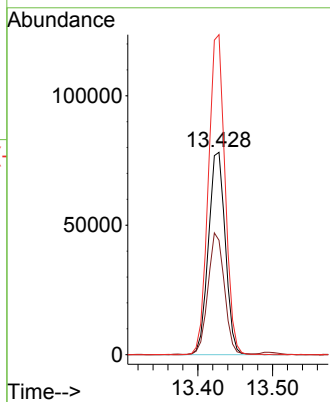
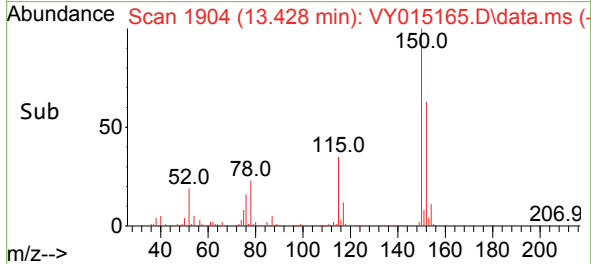


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1903
Delta R.T. 0.006 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

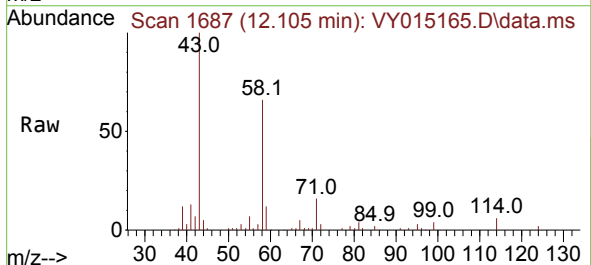
Instrument :
MSVOA_Y
ClientSampleId :



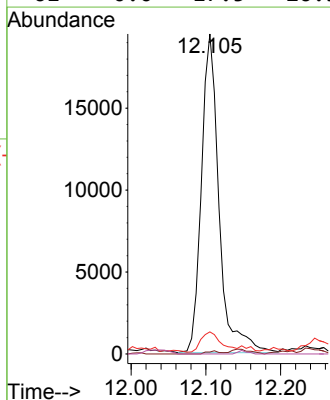
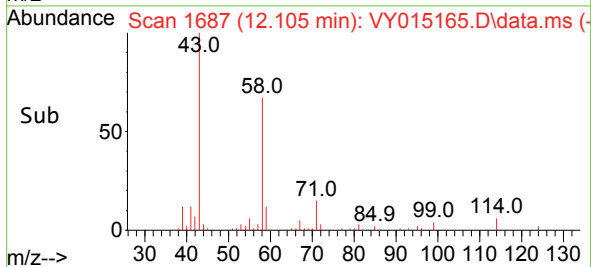
Tgt Ion:152 Resp: 122594
Ion Ratio Lower Upper
152 100
115 58.0 28.8 86.5
150 156.3 0.0 348.8

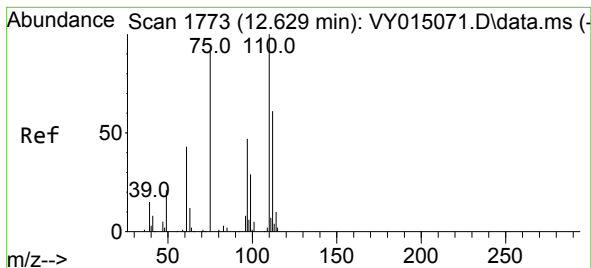


#74
N-ethyl acetate
Concen: 11.191 ug/l
RT: 12.105 min Scan# 1687
Delta R.T. -0.036 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31



Tgt Ion: 43 Resp: 31852
Ion Ratio Lower Upper
43 100
70 0.7 29.7 44.5#
55 7.3 18.3 27.5#
61 0.0 17.5 26.3#





#76

1,2,3-Trichloropropane

Concen: 38.980 ug/l

RT: 12.483 min Scan# 1

Delta R.T. -0.146 min

Lab File: VY015165.D

Acq: 17 Aug 2023 12:31

Instrument :

MSVOA_Y

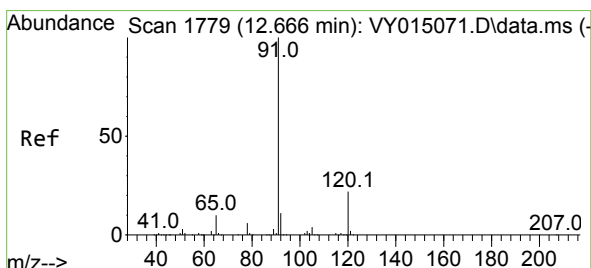
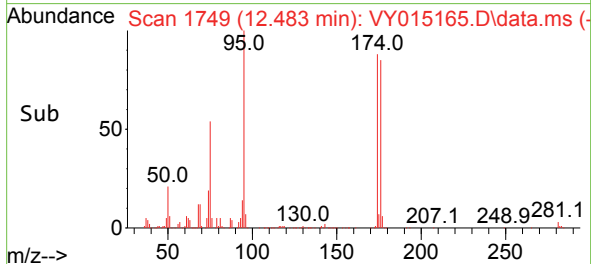
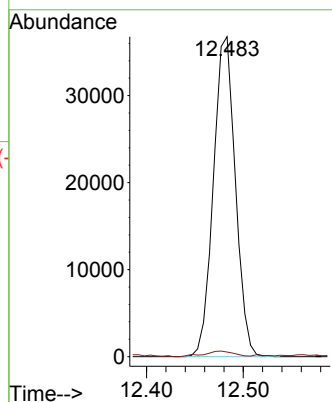
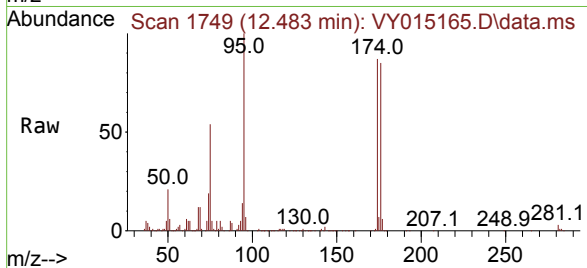
ClientSampleId :

Tgt Ion: 75 Resp: 58058

Ion Ratio Lower Upper

75 100

77 2.4 0.0 0.0#



#78

n-propylbenzene

Concen: 2.351 ug/l

RT: 12.672 min Scan# 1780

Delta R.T. 0.006 min

Lab File: VY015165.D

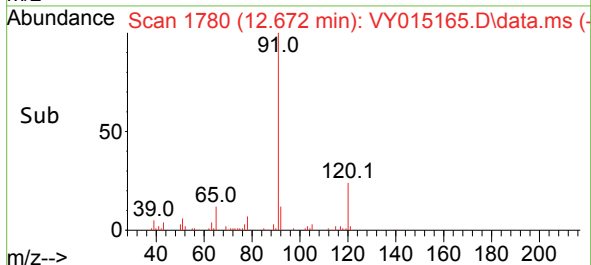
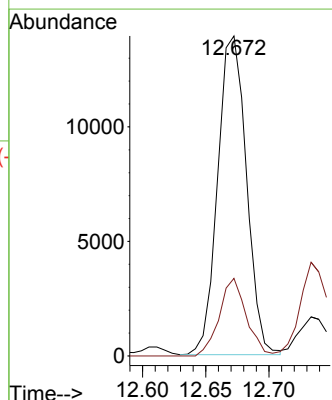
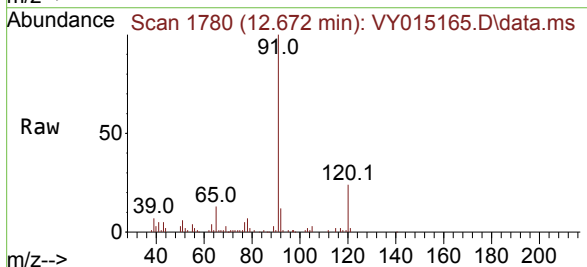
Acq: 17 Aug 2023 12:31

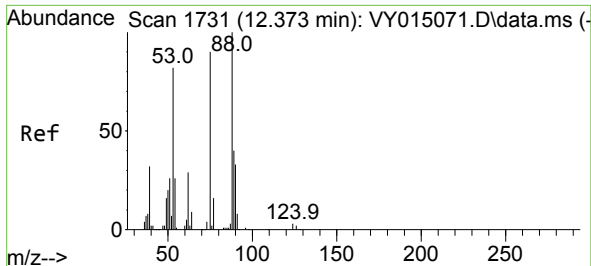
Tgt Ion: 91 Resp: 22011

Ion Ratio Lower Upper

91 100

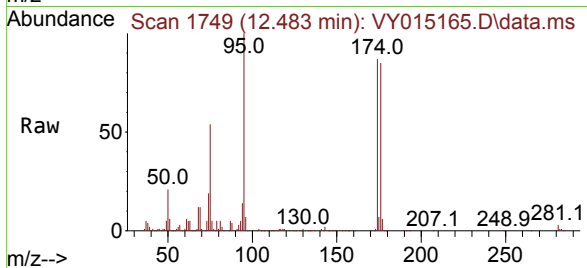
120 22.9 11.5 34.4



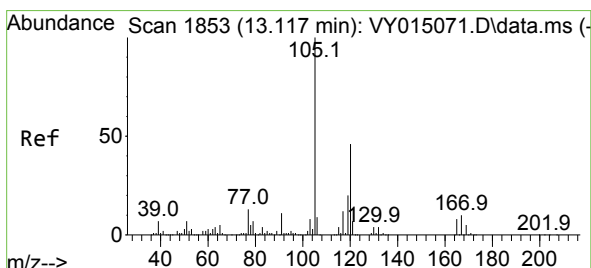
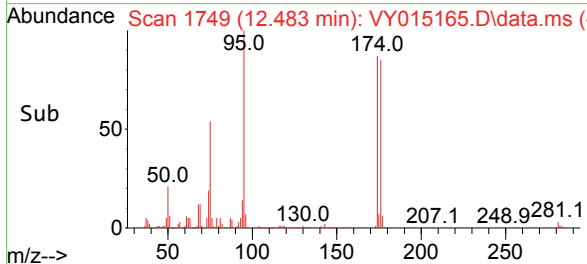
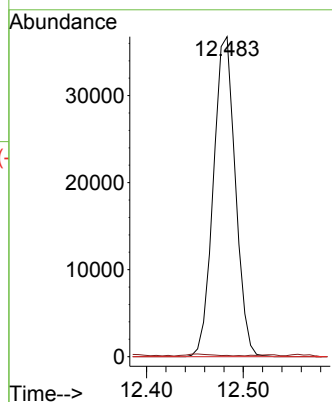


#81
trans-1,4-Dichloro-2-butene
Concen: 85.619 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.110 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

Instrument :
MSVOA_Y
ClientSampleId :

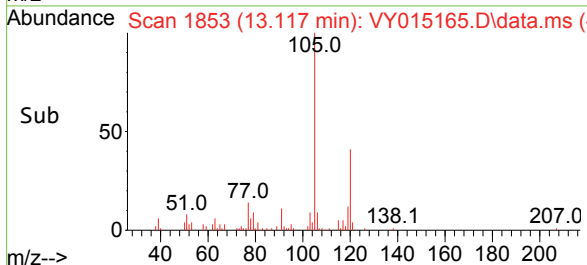
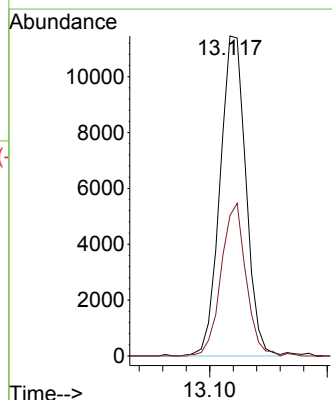
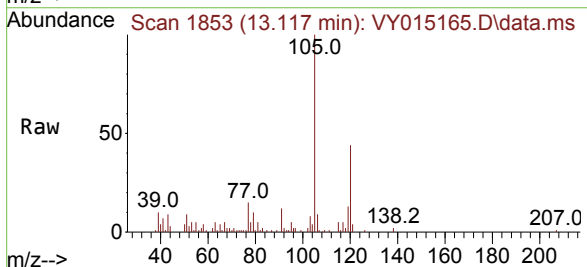


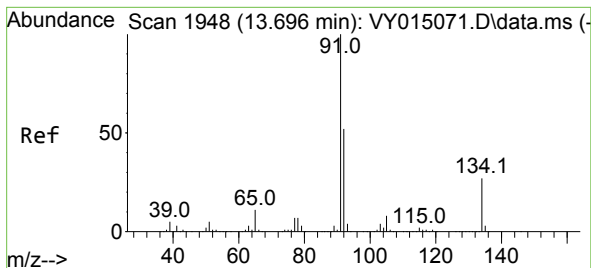
Tgt Ion: 75 Resp: 58058
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.0 37.4 56.0#



#84
1,2,4-Trimethylbenzene
Concen: 2.665 ug/l
RT: 13.117 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VY015165.D
Acq: 17 Aug 2023 12:31

Tgt Ion: 105 Resp: 17500
Ion Ratio Lower Upper
105 100
120 46.1 22.2 66.6





#89

n-Butylbenzene

Concen: 2.894 ug/l

RT: 13.696 min Scan# 1948

Delta R.T. 0.000 min

Lab File: VY015165.D

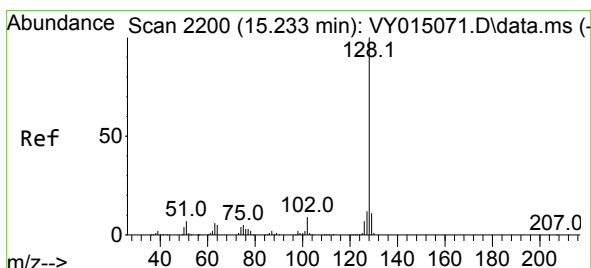
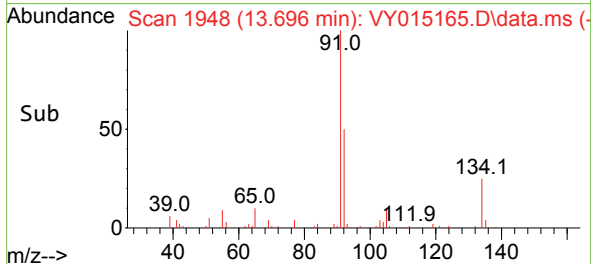
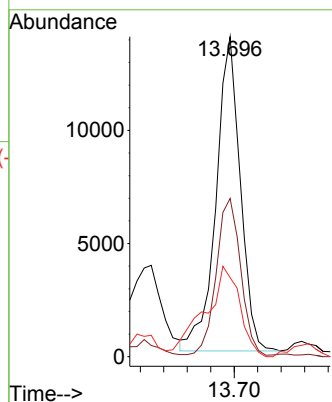
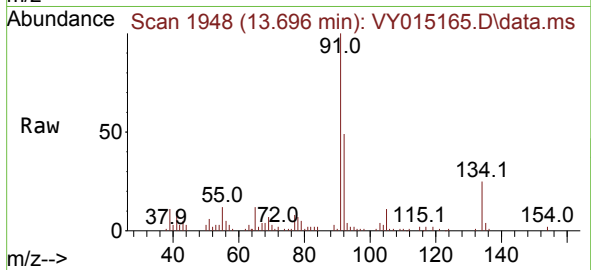
Acq: 17 Aug 2023 12:31

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 91	Resp:	19925
Ion	Ratio	Lower Upper
91	100	
92	50.2	25.4 76.0
134	41.9	12.6 37.6#



#95

Naphthalene

Concen: 51.880 ug/l

RT: 15.233 min Scan# 2200

Delta R.T. 0.000 min

Lab File: VY015165.D

Acq: 17 Aug 2023 12:31

Tgt Ion: 128	Resp:	295406
Ion	Ratio	Lower Upper
128	100	
127	13.2	10.8 16.2
129	11.1	8.6 13.0

