

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY103123\
 Data File : VY016155.D
 Acq On : 31 Oct 2023 18:47
 Operator : SY/MD
 Sample : 05107-23
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 01 03:41:30 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 01 03:33:29 2023
 Response via : Initial Calibration

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

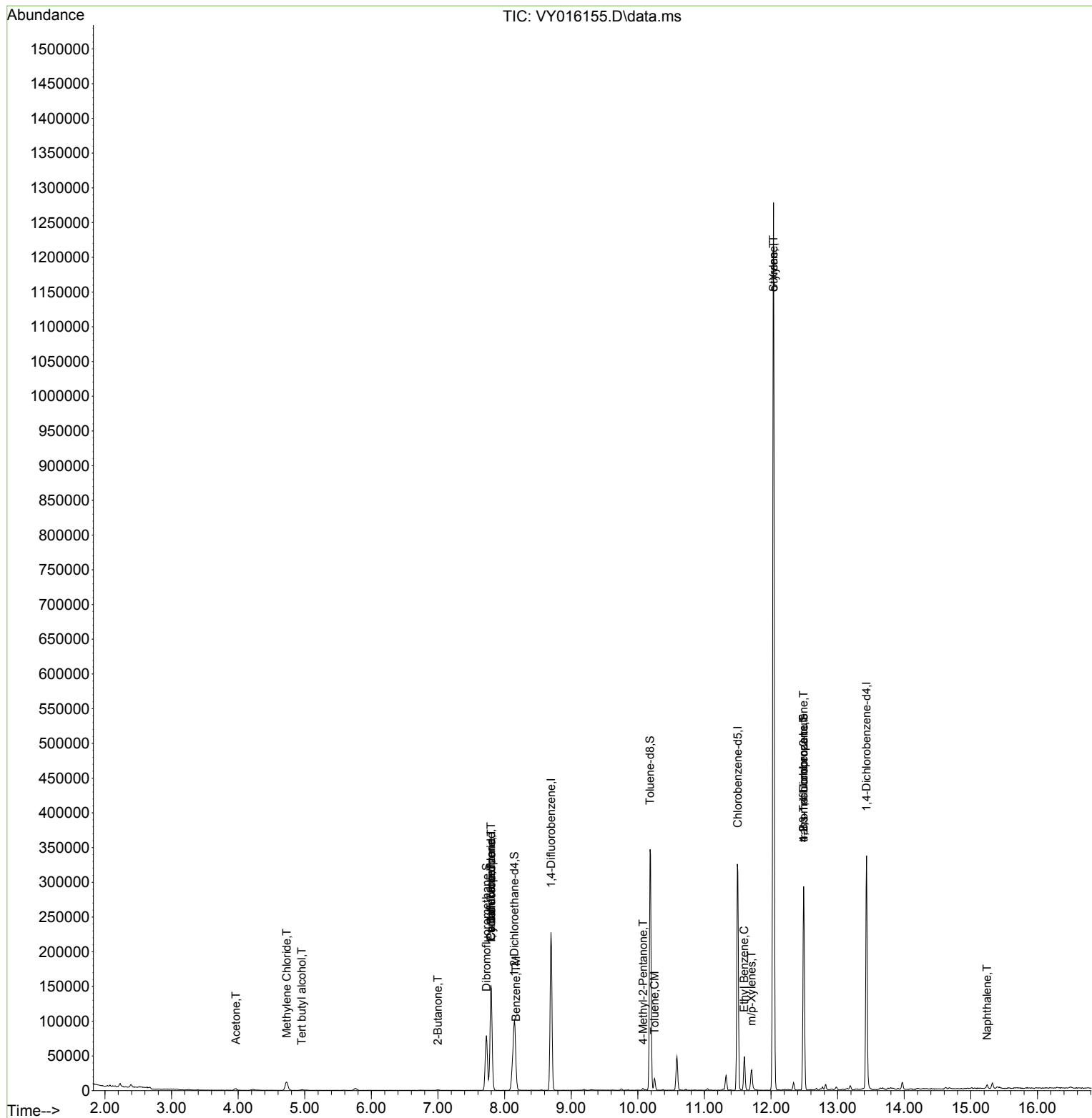
Internal Standards						
1) Pentafluorobenzene	7.795	168	119003	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.697	114	196963	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.501	117	180784	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	84964	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.148	65	65804	59.094	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	118.180%
35) Dibromofluoromethane	7.728	113	55997	47.688	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	95.380%
50) Toluene-d8	10.185	98	231233	49.668	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.340%
62) 4-Bromofluorobenzene	12.489	95	80762	50.731	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	101.460%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.954	59	1837	22.080	ug/l	100
13) Acrolein	3.728	56	126	Below Cal	#	51
16) Acetone	3.966	43	4721	8.096	ug/l	97
20) Methylene Chloride	4.728	84	9215	5.421	ug/l #	85
25) 2-Butanone	6.996	43	1584	5.156	ug/l #	78
31) Cyclohexane	7.795	56	2524	1.474	ug/l #	1
36) 1,1-Dichloropropene	7.801	75	8628	5.089	ug/l #	51
38) Carbon Tetrachloride	7.795	117	11434	6.807	ug/l #	16
40) Benzene	8.173	78	12220	2.510	ug/l	95
49) 1,4-Dioxane	9.294	88	607	Below Cal	#	40
51) 4-Methyl-2-Pentanone	10.081	43	1746	2.342	ug/l	98
52) Toluene	10.252	92	6949	2.203	ug/l	93
67) Ethyl Benzene	11.599	91	32301	5.028	ug/l	97
68) m/p-Xylenes	11.709	106	9076	3.656	ug/l	95
69) o-Xylene	12.038	106	342306	144.421	ug/l	96
70) Styrene	12.038	104	17691	4.490	ug/l #	1
76) 1,2,3-Trichloropropane	12.489	75	42547	53.176	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.489	75	42547	115.298	ug/l #	11
95) Naphthalene	15.245	128	4673	1.580	ug/l	99

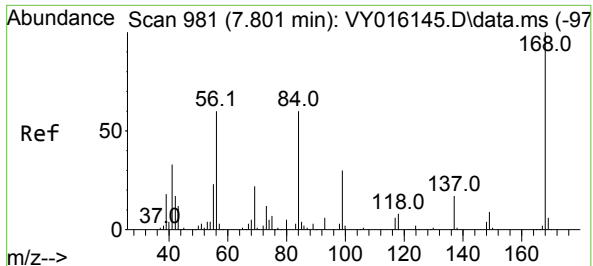
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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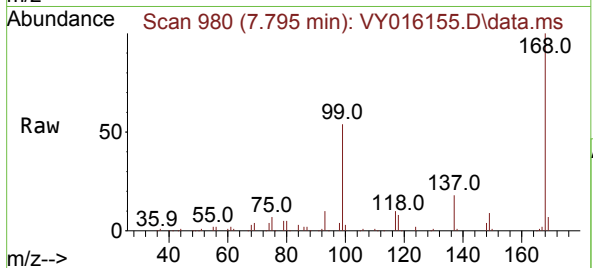
Quant Time: Nov 01 03:41:30 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y103123S.M
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QLast Update : Wed Nov 01 03:33:29 2023
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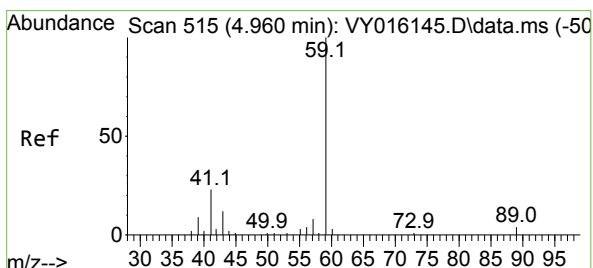
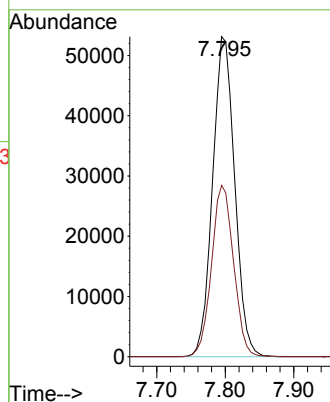
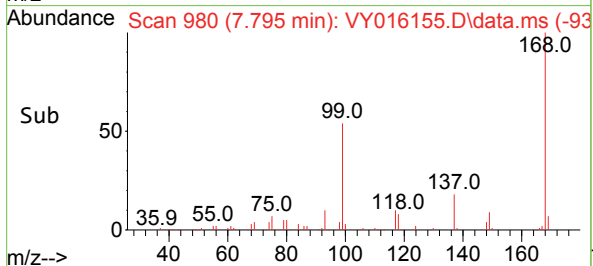


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY016155.D
Acq: 31 Oct 2023 18:47

Instrument :
MSVOA_Y
ClientSampleId :

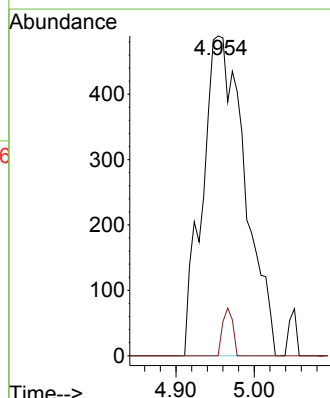
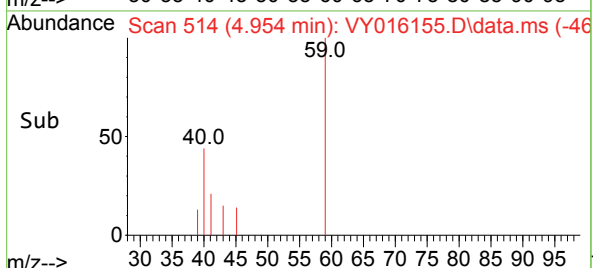
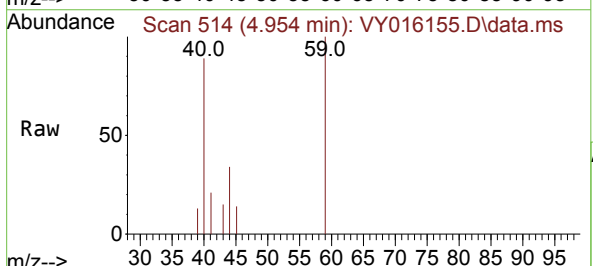


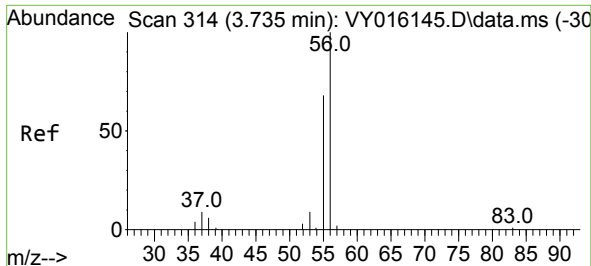
Tgt Ion:168 Resp: 119003
Ion Ratio Lower Upper
168 100
99 53.6 43.4 65.0



#11
Tert butyl alcohol
Concen: 22.080 ug/l
RT: 4.954 min Scan# 514
Delta R.T. -0.006 min
Lab File: VY016155.D
Acq: 31 Oct 2023 18:47

Tgt Ion: 59 Resp: 1837
Ion Ratio Lower Upper
59 100
57 3.6 3.0 4.4





#13

Acrolein

Concen: Below Cal

RT: 3.728 min Scan# 31

Delta R.T. -0.007 min

Lab File: VY016155.D

Acq: 31 Oct 2023 18:47

Instrument :

MSVOA_Y

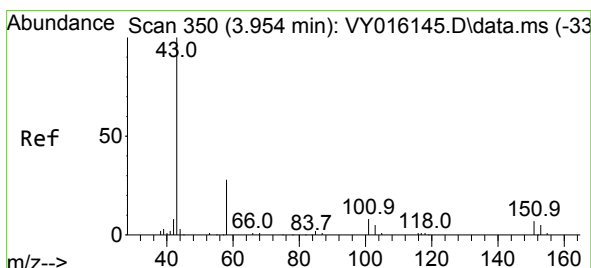
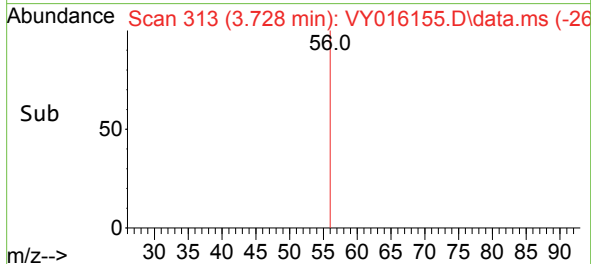
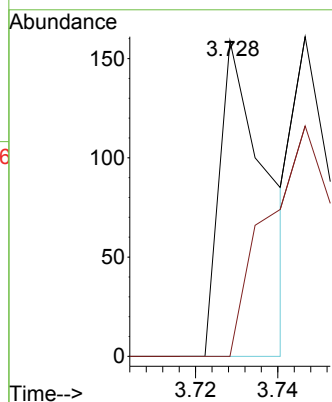
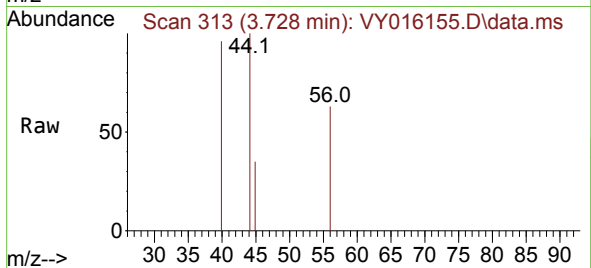
ClientSampleId :

Tgt Ion: 56 Resp: 126

Ion Ratio Lower Upper

56 100

55 111.9 57.0 85.4#



#16

Acetone

Concen: 8.096 ug/l

RT: 3.966 min Scan# 352

Delta R.T. 0.012 min

Lab File: VY016155.D

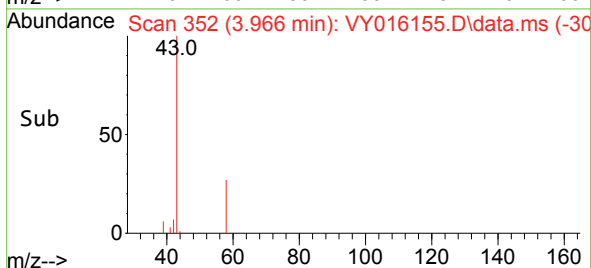
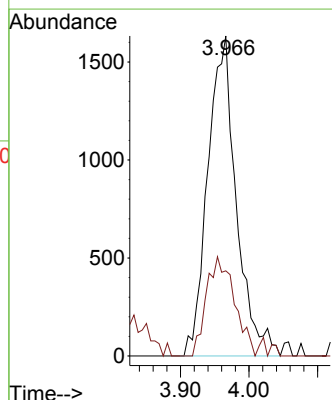
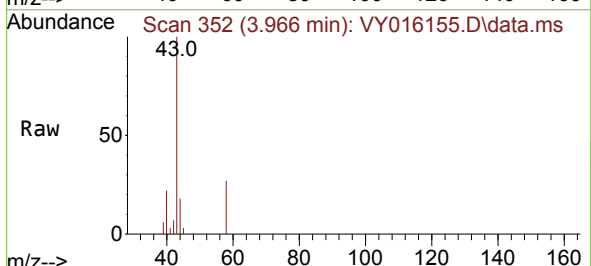
Acq: 31 Oct 2023 18:47

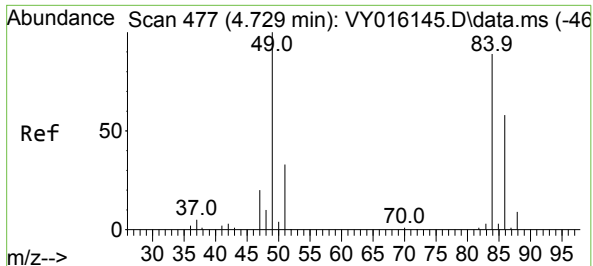
Tgt Ion: 43 Resp: 4721

Ion Ratio Lower Upper

43 100

58 26.6 22.7 34.1





#20

Methylene Chloride

Concen: 5.421 ug/l

RT: 4.728 min Scan# 41

Delta R.T. -0.001 min

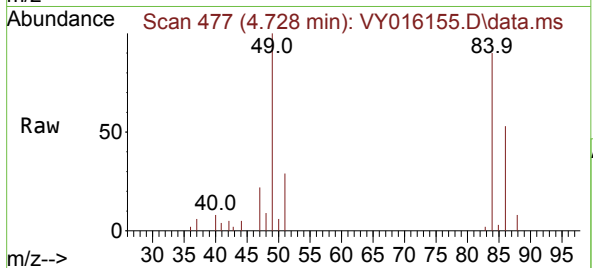
Lab File: VY016155.D

Acq: 31 Oct 2023 18:47

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 84 Resp: 9215

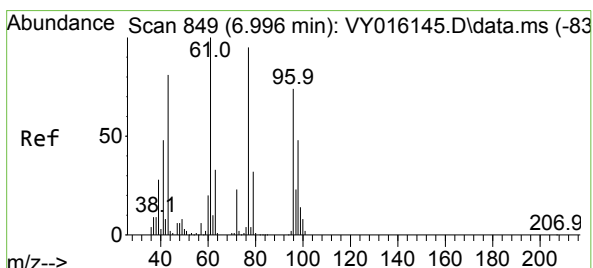
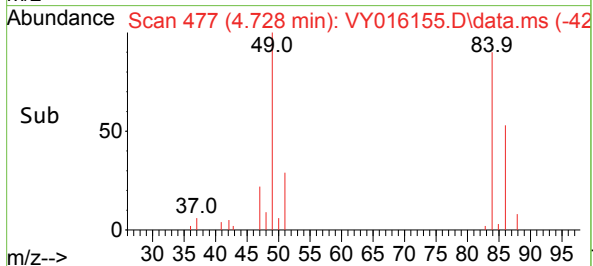
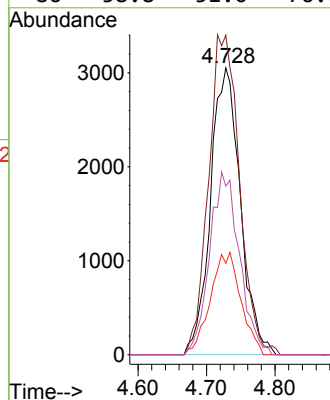
Ion Ratio Lower Upper

84 100

49 111.4 106.9 160.3

51 31.9 33.2 49.8#

86 58.8 51.0 76.6



#25

2-Butanone

Concen: 5.156 ug/l

RT: 6.996 min Scan# 849

Delta R.T. -0.000 min

Lab File: VY016155.D

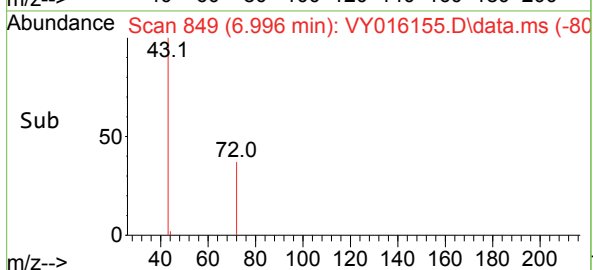
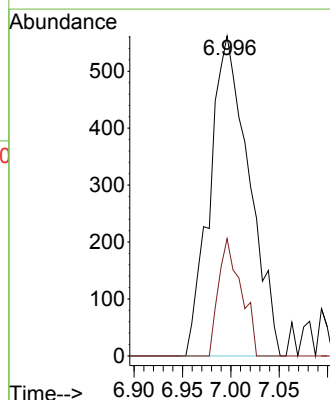
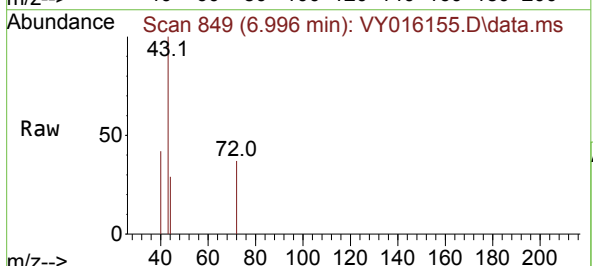
Acq: 31 Oct 2023 18:47

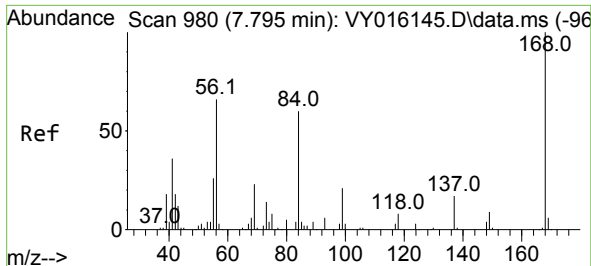
Tgt Ion: 43 Resp: 1584

Ion Ratio Lower Upper

43 100

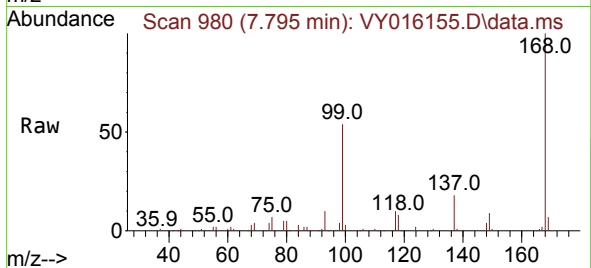
72 36.7 20.5 30.7#



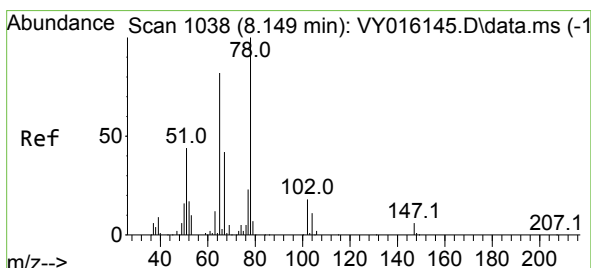
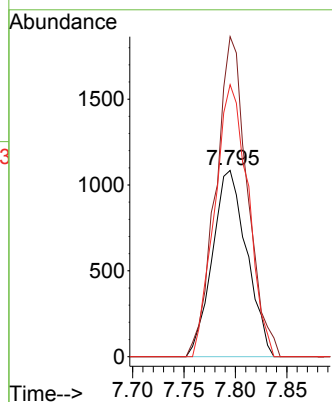
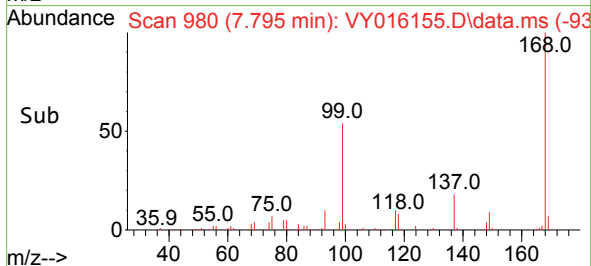


#31
Cyclohexane
Concen: 1.474 ug/l
RT: 7.795 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY016155.D
Acq: 31 Oct 2023 18:47

Instrument :
MSVOA_Y
ClientSampleId :

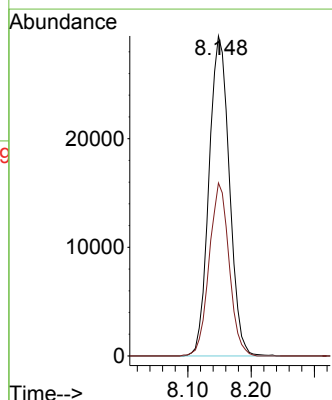
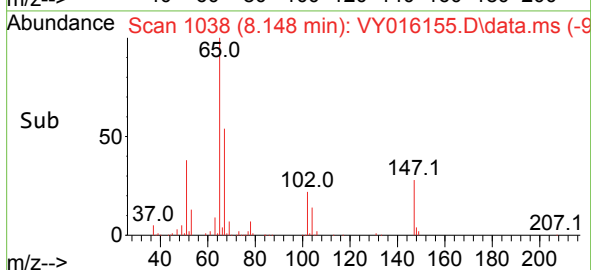
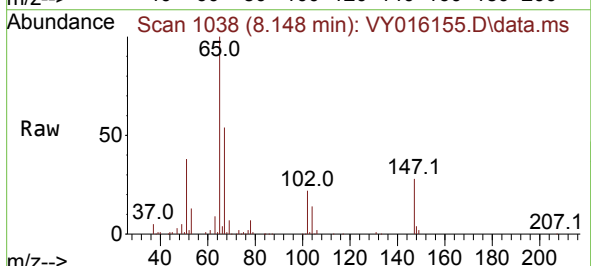


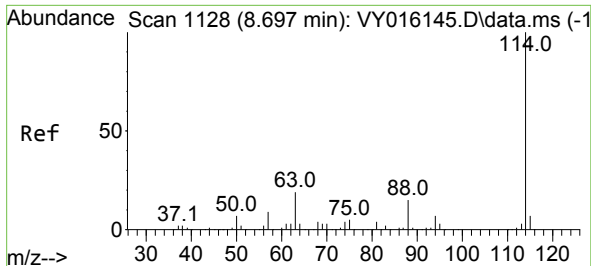
Tgt Ion: 56 Resp: 2524
Ion Ratio Lower Upper
56 100
69 171.8 27.8 41.6#
84 146.0 66.4 99.6#



#33
1,2-Dichloroethane-d4
Concen: 59.094 ug/l
RT: 8.148 min Scan# 1038
Delta R.T. -0.000 min
Lab File: VY016155.D
Acq: 31 Oct 2023 18:47

Tgt Ion: 65 Resp: 65804
Ion Ratio Lower Upper
65 100
67 52.8 0.0 101.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VY016155.D

Acq: 31 Oct 2023 18:47

Instrument :

MSVOA_Y

ClientSampleId :

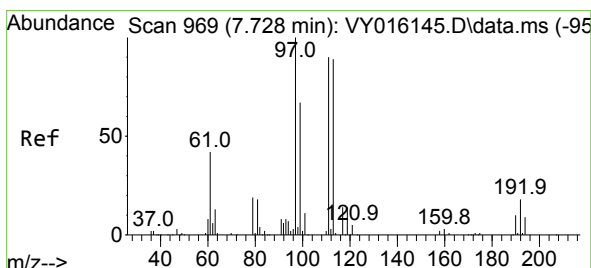
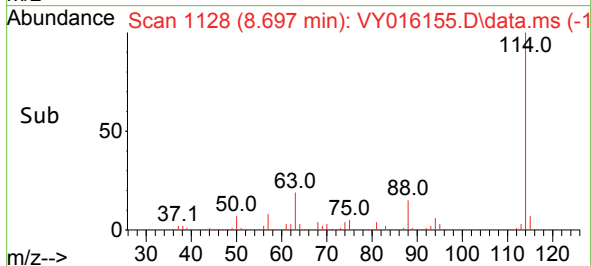
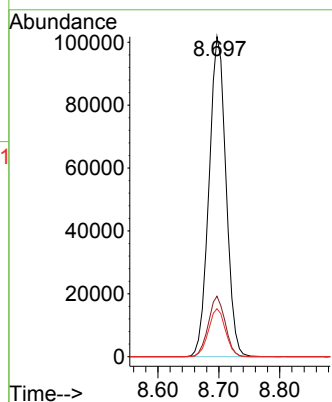
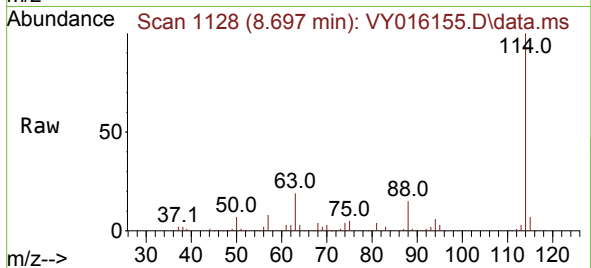
Tgt Ion:114 Resp: 196963

Ion Ratio Lower Upper

114 100

63 18.9 0.0 42.4

88 15.0 0.0 30.6



#35

Dibromofluoromethane

Concen: 47.688 ug/l

RT: 7.728 min Scan# 969

Delta R.T. -0.000 min

Lab File: VY016155.D

Acq: 31 Oct 2023 18:47

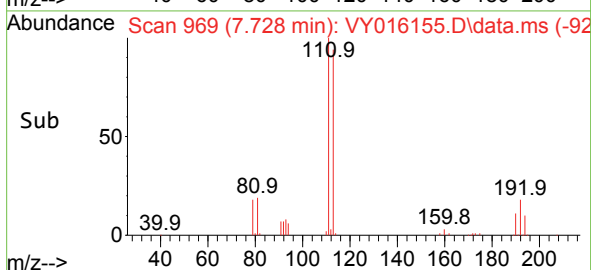
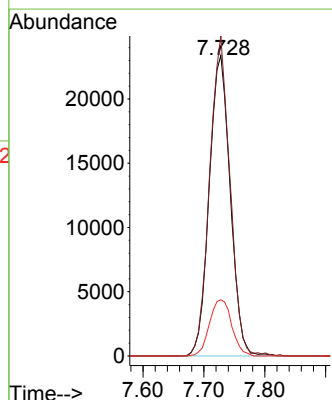
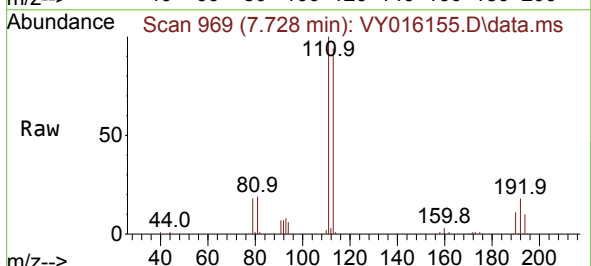
Tgt Ion:113 Resp: 55997

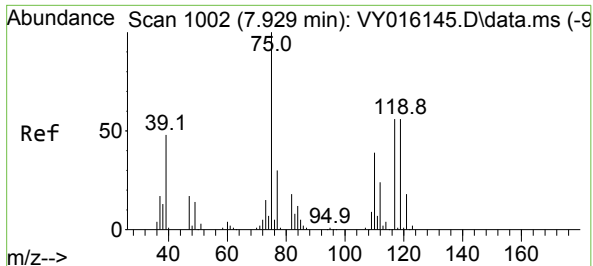
Ion Ratio Lower Upper

113 100

111 103.2 81.3 121.9

192 19.8 16.9 25.3





#36

1,1-Dichloropropene

Concen: 5.089 ug/l

RT: 7.801 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY016155.D

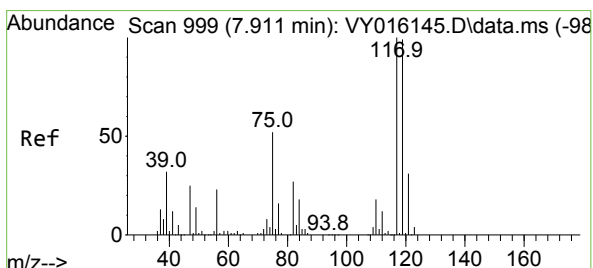
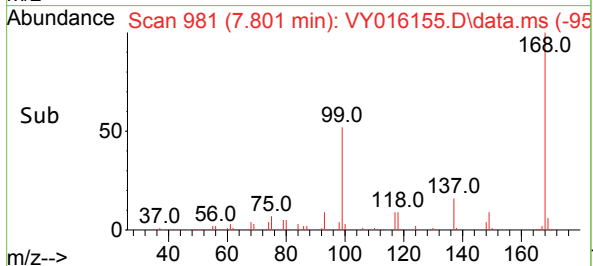
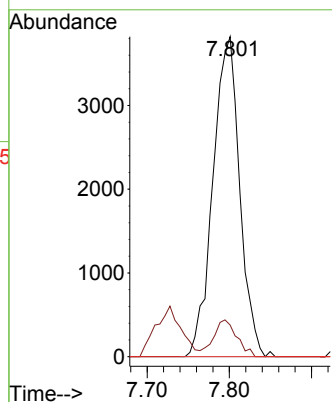
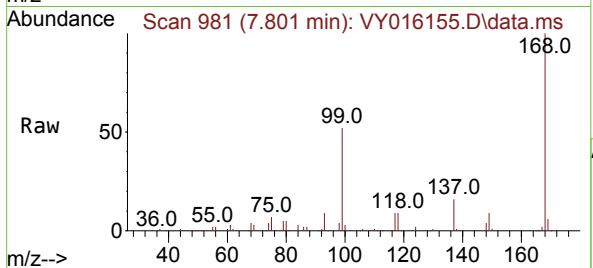
Acq: 31 Oct 2023 18:47

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 75	Resp: 8628
Ion Ratio	Lower Upper
75 100	
110 10.0	17.8 53.5#
77 0.0	24.4 36.6#



#38

Carbon Tetrachloride

Concen: 6.807 ug/l

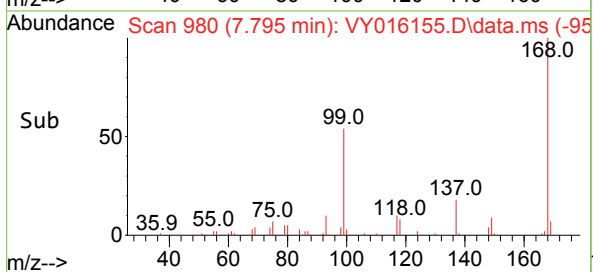
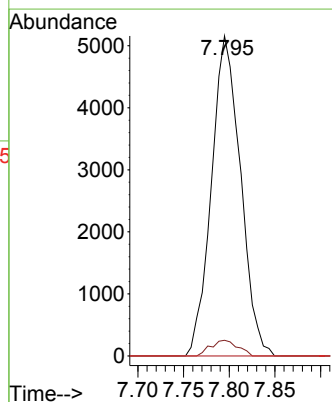
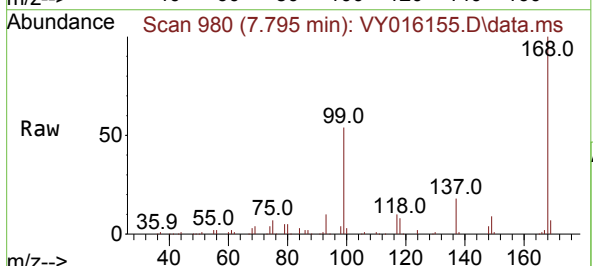
RT: 7.795 min Scan# 980

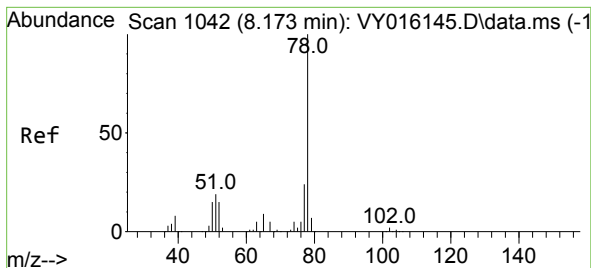
Delta R.T. -0.116 min

Lab File: VY016155.D

Acq: 31 Oct 2023 18:47

Tgt Ion: 117	Resp: 11434
Ion Ratio	Lower Upper
117 100	
119 4.9	76.4 114.6#
121 0.0	25.8 38.6#





#40

Benzene

Concen: 2.510 ug/l

RT: 8.173 min Scan# 1042

Delta R.T. -0.000 min

Lab File: VY016155.D

Acq: 31 Oct 2023 18:47

Instrument :

MSVOA_Y

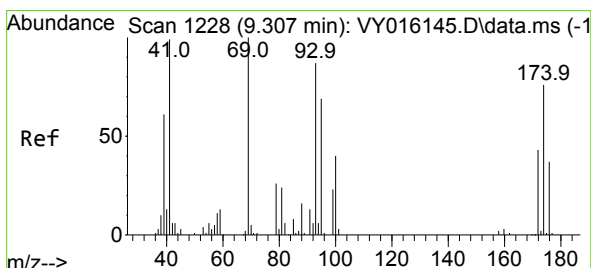
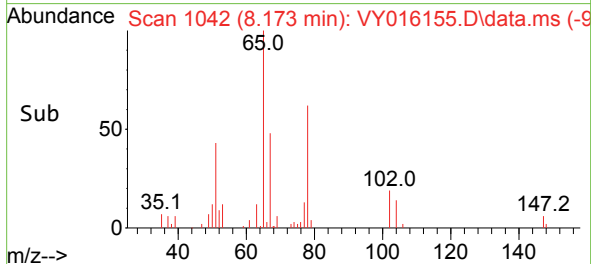
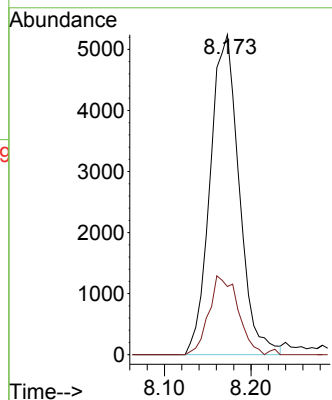
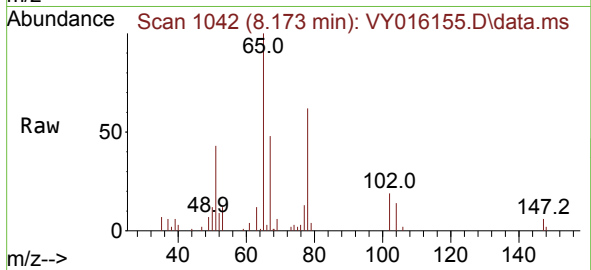
ClientSampleId :

Tgt Ion: 78 Resp: 12220

Ion Ratio Lower Upper

78 100

77 21.3 19.0 28.6



#49

1,4-Dioxane

Concen: Below Cal

RT: 9.294 min Scan# 1226

Delta R.T. -0.013 min

Lab File: VY016155.D

Acq: 31 Oct 2023 18:47

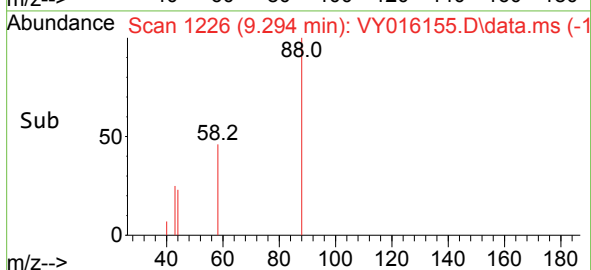
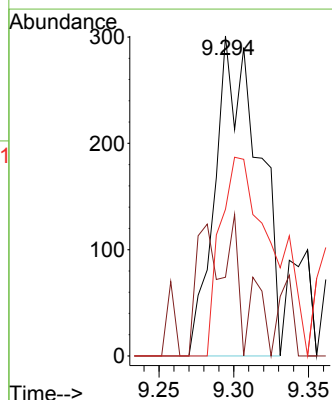
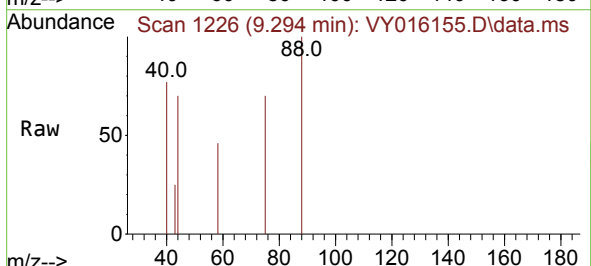
Tgt Ion: 88 Resp: 607

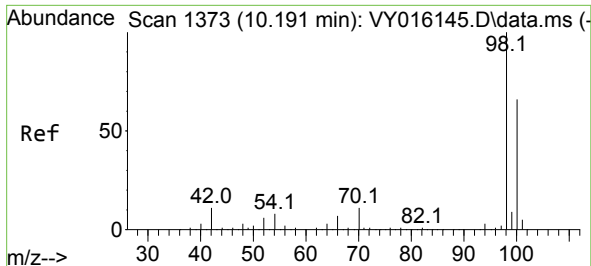
Ion Ratio Lower Upper

88 100

43 39.2 0.0 0.0#

58 74.8 30.9 46.3#





#50

Toluene-d8

Concen: 49.668 ug/l

RT: 10.185 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY016155.D

Acq: 31 Oct 2023 18:47

Instrument :

MSVOA_Y

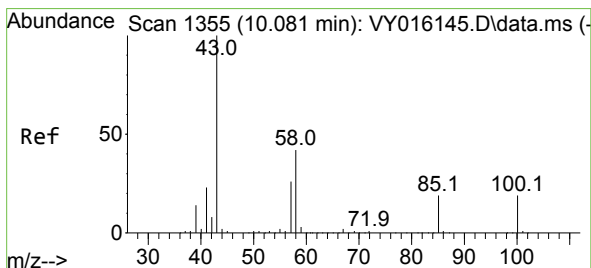
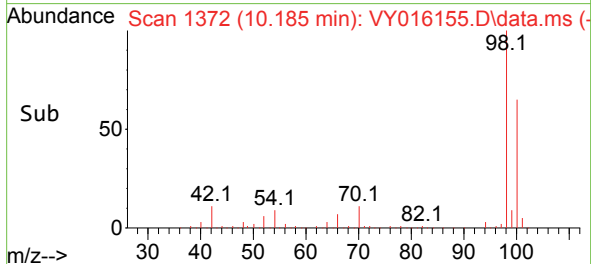
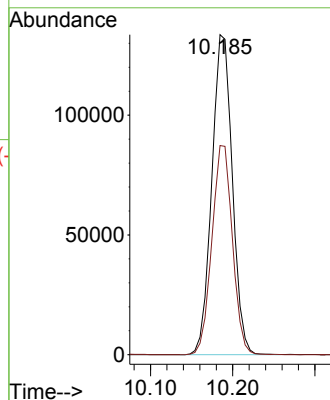
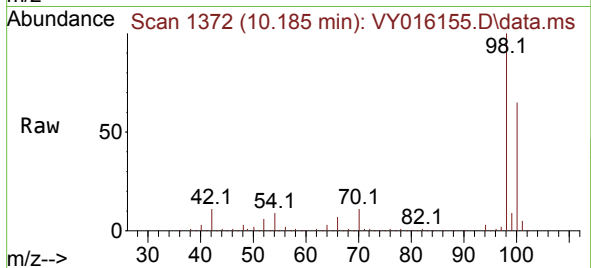
ClientSampleId :

Tgt Ion: 98 Resp: 231233

Ion Ratio Lower Upper

98 100

100 65.5 50.1 75.1



#51

4-Methyl-2-Pentanone

Concen: 2.342 ug/l

RT: 10.081 min Scan# 1355

Delta R.T. -0.000 min

Lab File: VY016155.D

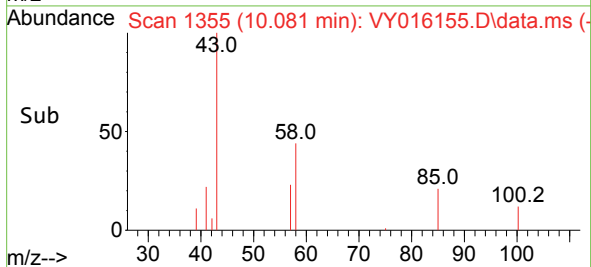
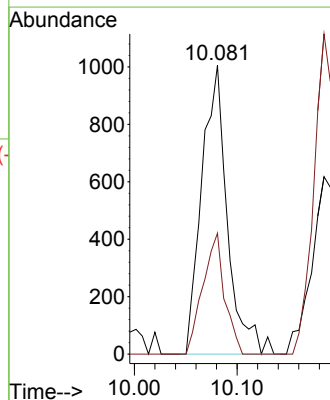
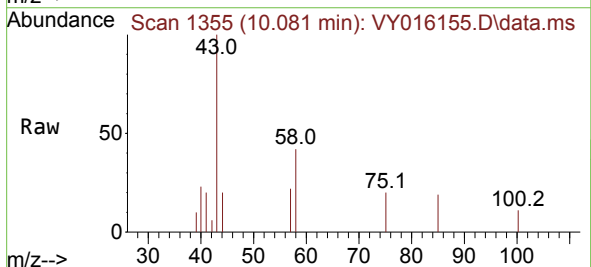
Acq: 31 Oct 2023 18:47

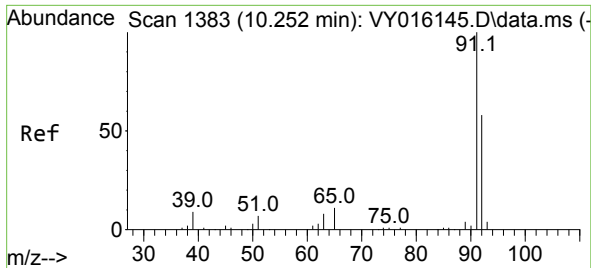
Tgt Ion: 43 Resp: 1746

Ion Ratio Lower Upper

43 100

58 35.4 29.0 43.6

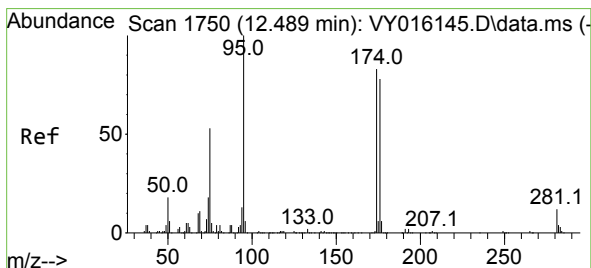
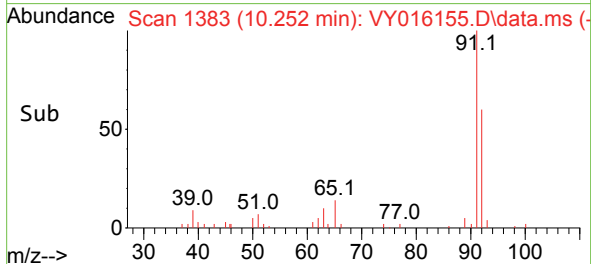
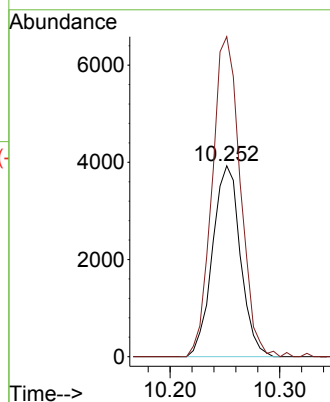
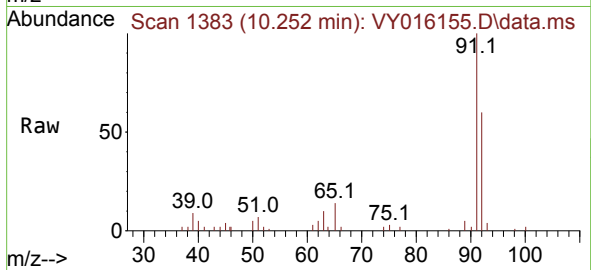




#52
Toluene
Concen: 2.203 ug/l
RT: 10.252 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VY016155.D
Acq: 31 Oct 2023 18:47

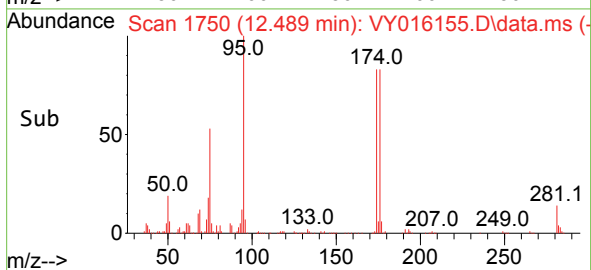
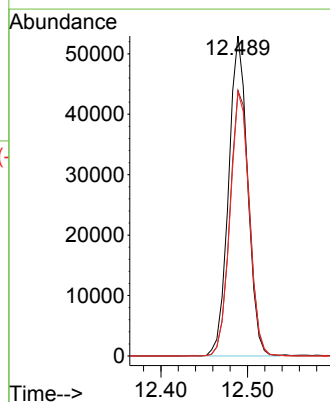
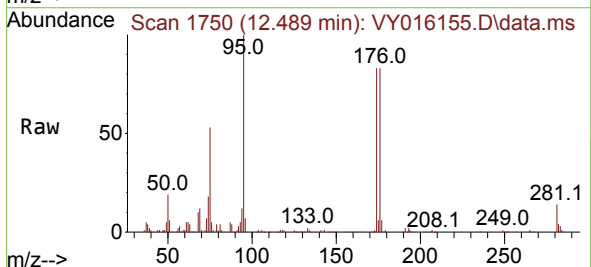
Instrument :
MSVOA_Y
ClientSampleId :

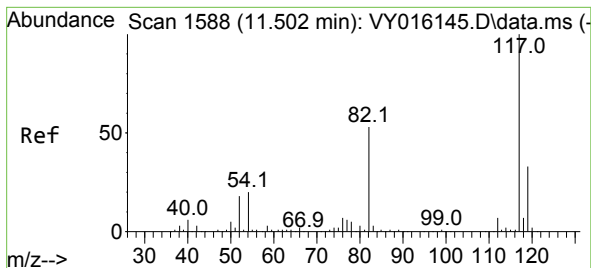
Tgt Ion: 92 Resp: 6949
Ion Ratio Lower Upper
92 100
91 169.4 143.8 215.6



#62
4-Bromofluorobenzene
Concen: 50.731 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VY016155.D
Acq: 31 Oct 2023 18:47

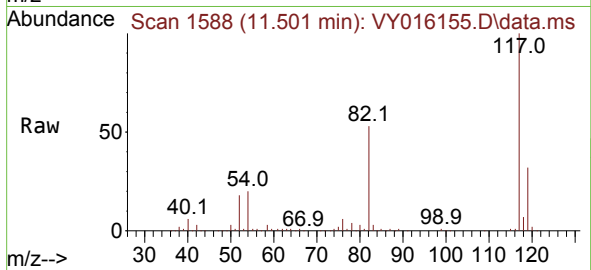
Tgt Ion: 95 Resp: 80762
Ion Ratio Lower Upper
95 100
174 84.8 0.0 178.2
176 83.2 0.0 173.8



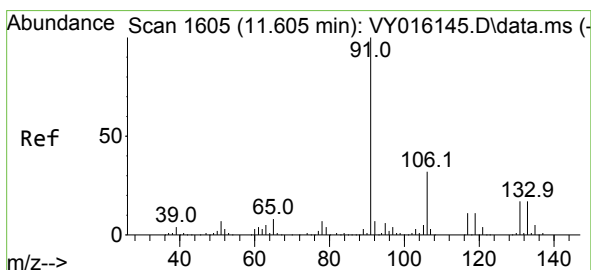
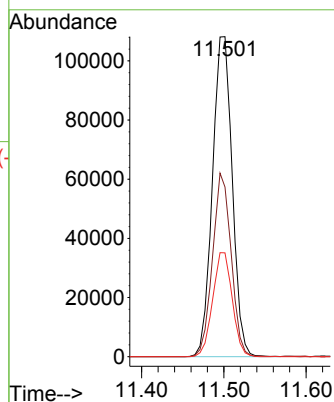
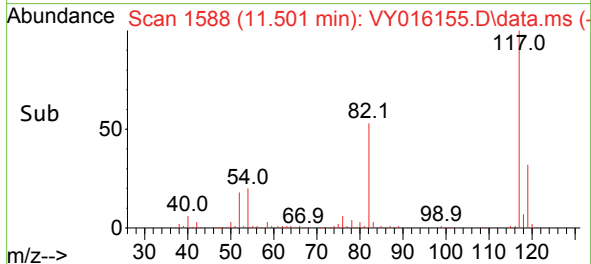


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.501 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY016155.D
Acq: 31 Oct 2023 18:47

Instrument :
MSVOA_Y
ClientSampleId :

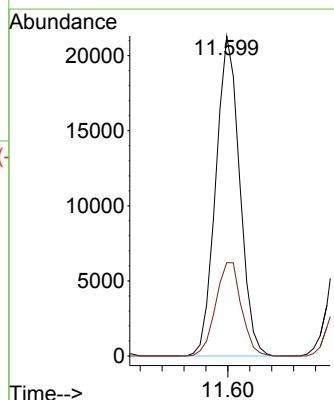
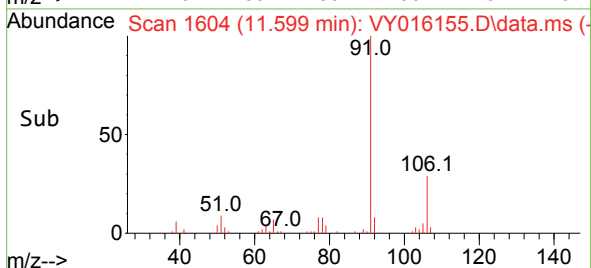
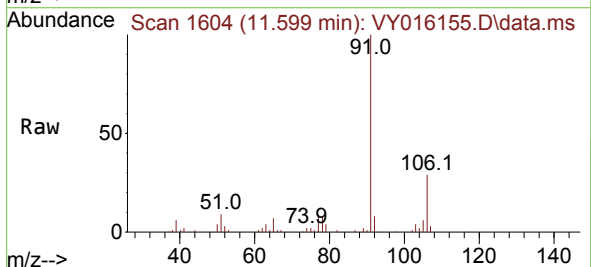


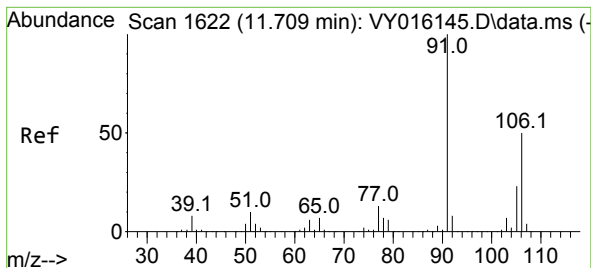
Tgt Ion:117 Resp: 180784
Ion Ratio Lower Upper
117 100
82 53.0 43.4 65.0
119 32.4 26.3 39.5



#67
Ethyl Benzene
Concen: 5.028 ug/l
RT: 11.599 min Scan# 1604
Delta R.T. -0.006 min
Lab File: VY016155.D
Acq: 31 Oct 2023 18:47

Tgt Ion: 91 Resp: 32301
Ion Ratio Lower Upper
91 100
106 29.1 24.6 36.8





#68

m/p-Xylenes

Concen: 3.656 ug/l

RT: 11.709 min Scan# 1

Delta R.T. -0.000 min

Lab File: VY016155.D

Acq: 31 Oct 2023 18:47

Instrument :

MSVOA_Y

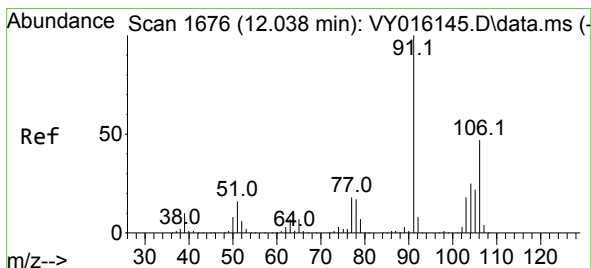
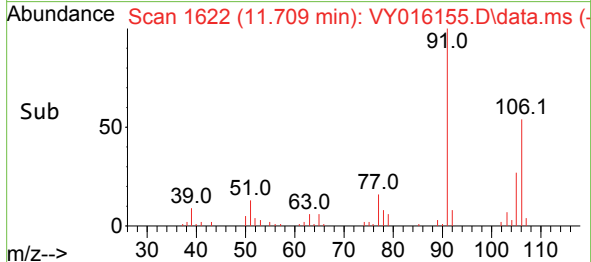
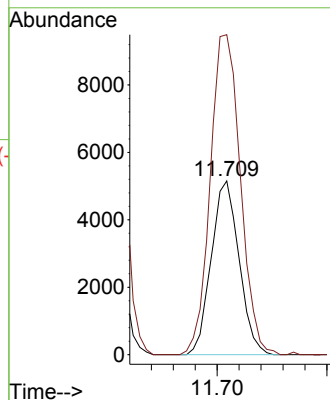
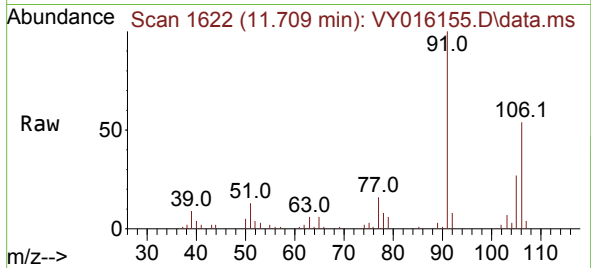
ClientSampleId :

Tgt Ion:106 Resp: 9076

Ion Ratio Lower Upper

106 100

91 199.8 166.1 249.1



#69

o-Xylene

Concen: 144.421 ug/l

RT: 12.038 min Scan# 1676

Delta R.T. -0.000 min

Lab File: VY016155.D

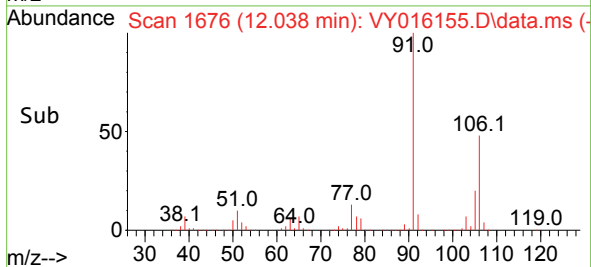
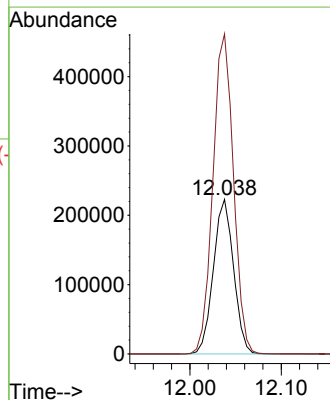
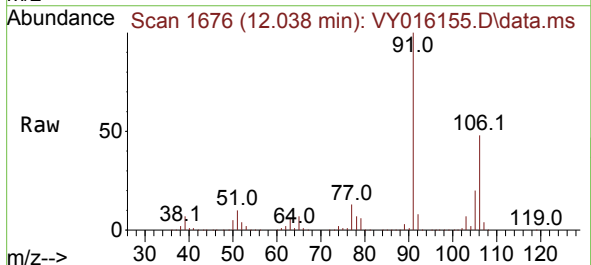
Acq: 31 Oct 2023 18:47

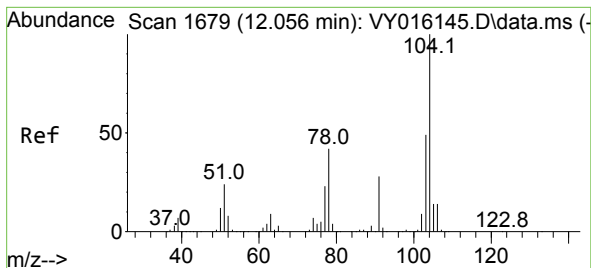
Tgt Ion:106 Resp: 342306

Ion Ratio Lower Upper

106 100

91 210.2 108.1 324.3





#70

Styrene

Concen: 4.490 ug/l

RT: 12.038 min Scan# 1

Delta R.T. -0.019 min

Lab File: VY016155.D

Acq: 31 Oct 2023 18:47

Instrument :

MSVOA_Y

ClientSampleId :

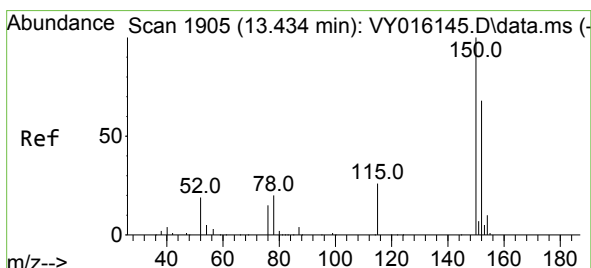
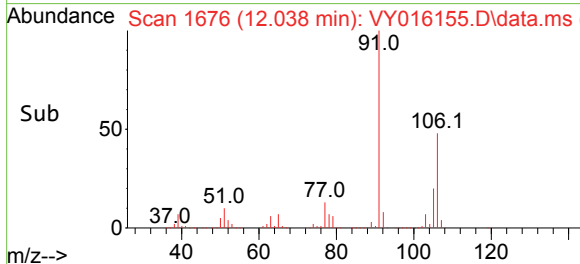
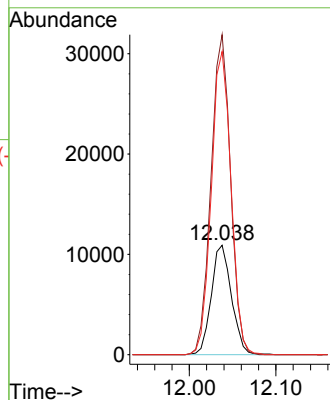
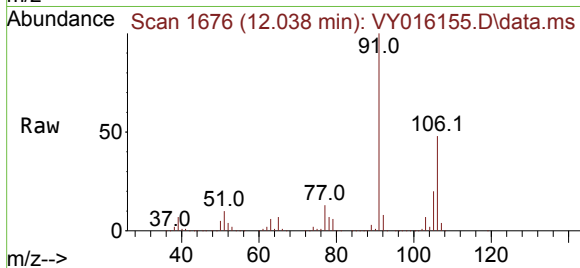
Tgt Ion:104 Resp: 17691

Ion Ratio Lower Upper

104 100

78 282.4 41.5 62.3#

103 270.5 44.6 67.0#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1905

Delta R.T. -0.000 min

Lab File: VY016155.D

Acq: 31 Oct 2023 18:47

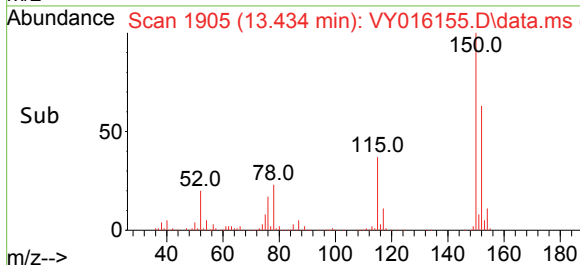
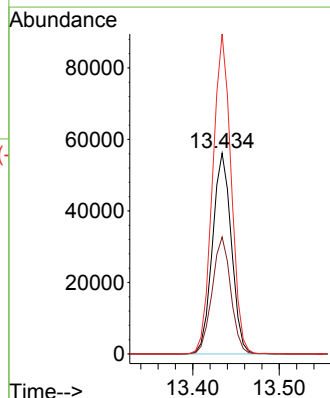
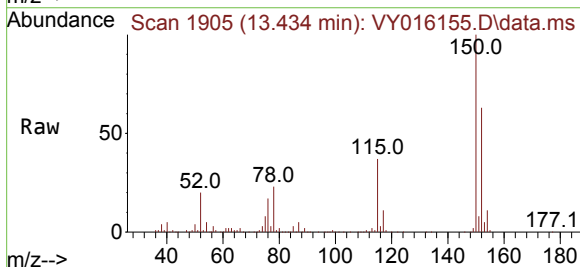
Tgt Ion:152 Resp: 84964

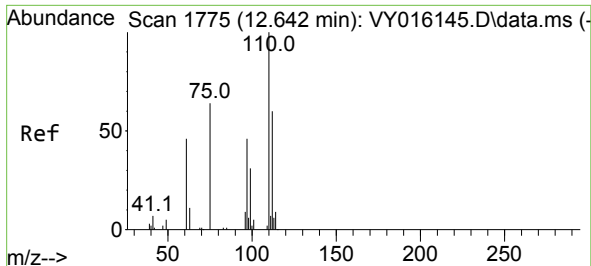
Ion Ratio Lower Upper

152 100

115 57.8 28.8 86.5

150 156.8 0.0 348.8

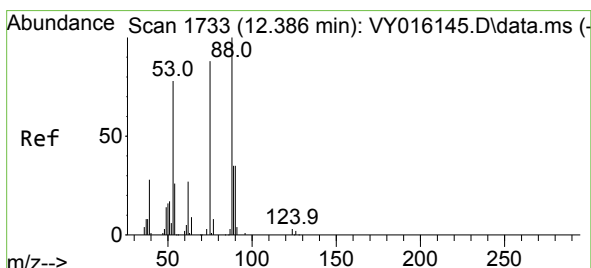
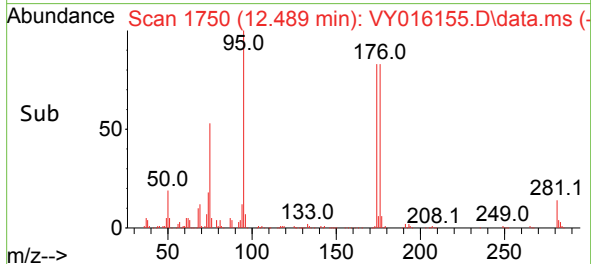
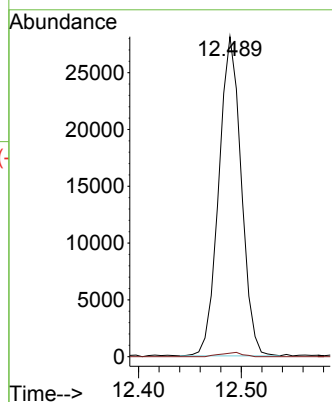
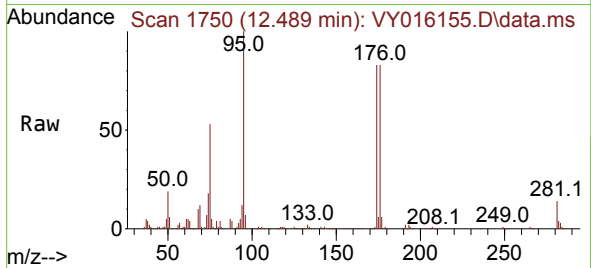




#76
1,2,3-Trichloropropane
Concen: 53.176 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. -0.153 min
Lab File: VY016155.D
Acq: 31 Oct 2023 18:47

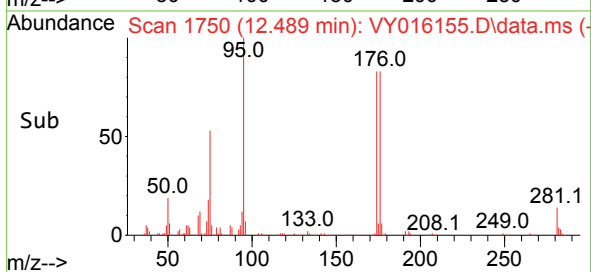
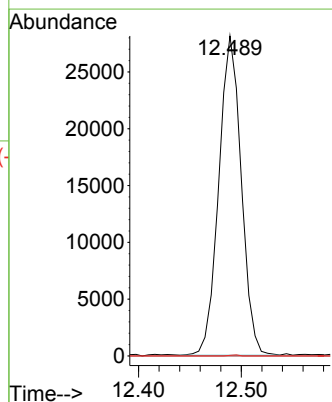
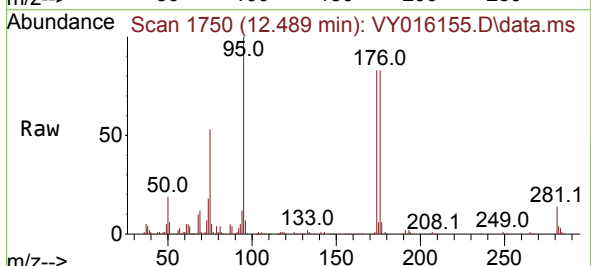
Instrument :
MSVOA_Y
ClientSampleId :

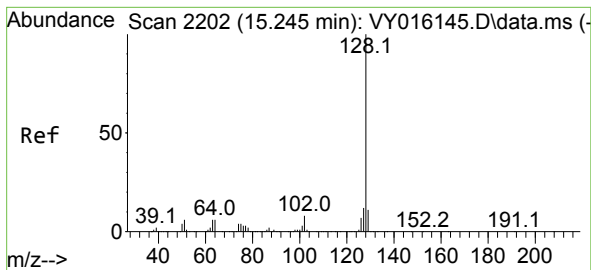
Tgt Ion: 75 Resp: 42547
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 115.298 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.103 min
Lab File: VY016155.D
Acq: 31 Oct 2023 18:47

Tgt Ion: 75 Resp: 42547
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.1 37.4 56.0#





#95

Naphthalene

Concen: 1.580 ug/l

RT: 15.245 min Scan# 21

Delta R.T. -0.000 min

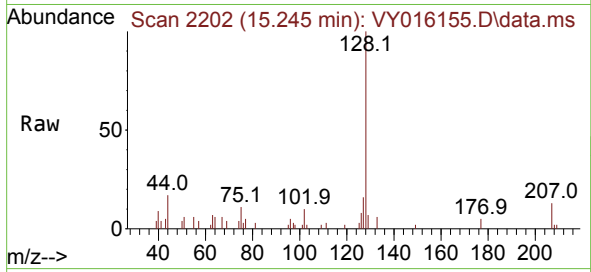
Lab File: VY016155.D

Acq: 31 Oct 2023 18:47

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:128 Resp: 4673

Ion Ratio Lower Upper

128 100

127 13.7 10.8 16.2

129 11.5 8.6 13.0

