

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY022223\
 Data File : VY012691.D
 Acq On : 22 Feb 2023 15:20
 Operator : KP/MD
 Sample : 01640-03
 Misc : 5.74g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-3

Quant Time: Feb 22 21:43:34 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y022123S.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 22 01:21:05 2023
 Response via : Initial Calibration

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

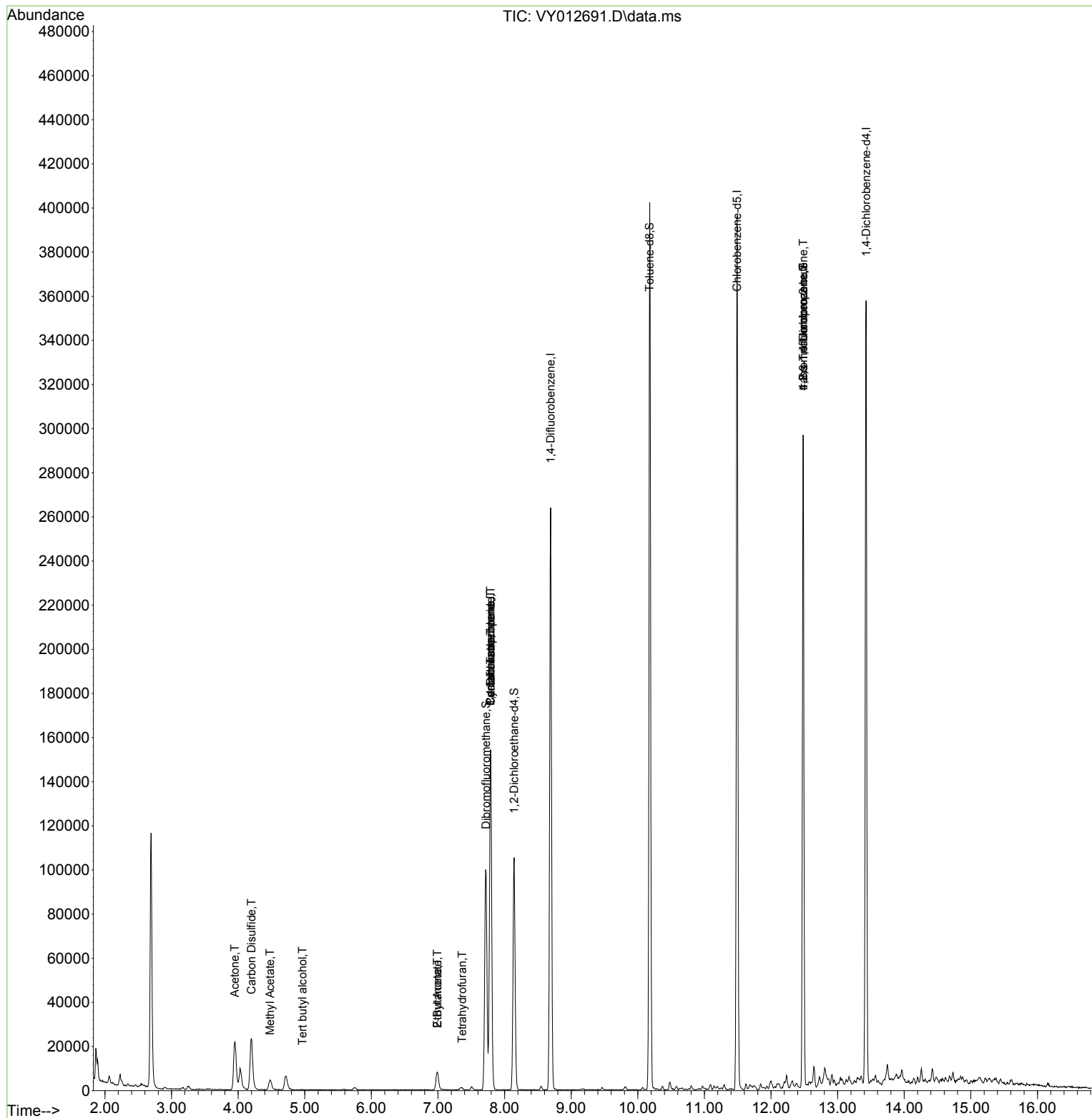
Internal Standards						
1) Pentafluorobenzene	7.789	168	118653	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	212422	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	200892	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	88052	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	77487	55.295	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	110.580%
35) Dibromofluoromethane	7.722	113	70589	49.199	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	98.400%
50) Toluene-d8	10.179	98	249481	46.413	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	92.820%
62) 4-Bromofluorobenzene	12.483	95	84518	49.135	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	98.280%
Target Compounds						
					Qvalue	
3) Chloromethane	2.113	50	674	Below Cal	#	82
11) Tert butyl alcohol	4.966	59	166	1.083	ug/l #	74
16) Acetone	3.948	43	41284	90.284	ug/l	98
17) Carbon Disulfide	4.198	76	45111	10.695	ug/l	99
18) Methyl Acetate	4.479	43	9424	6.398	ug/l	98
20) Methylene Chloride	4.716	84	4331	Below Cal		88
25) 2-Butanone	6.990	43	14688	24.202	ug/l	98
29) Tetrahydrofuran	7.362	42	689	1.860	ug/l #	41
31) Cyclohexane	7.789	56	2839	1.166	ug/l #	1
36) 1,1-Dichloropropene	7.789	75	9730	4.278	ug/l #	50
37) Ethyl Acetate	6.990	43	14688	9.571	ug/l #	72
38) Carbon Tetrachloride	7.789	117	11722	4.985	ug/l #	16
76) 1,2,3-Trichloropropane	12.483	75	45005	40.999	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.483	75	45005	86.855	ug/l #	10

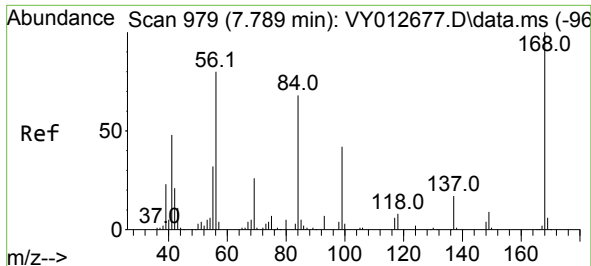
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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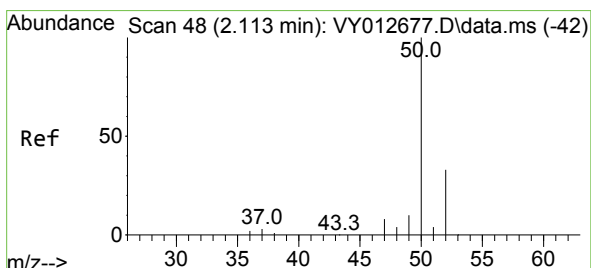
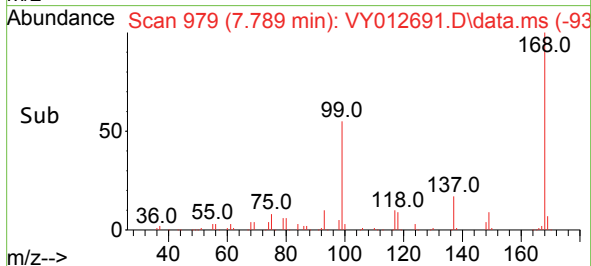
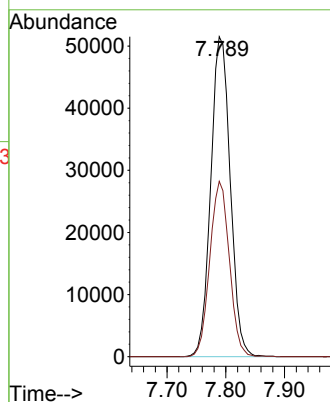
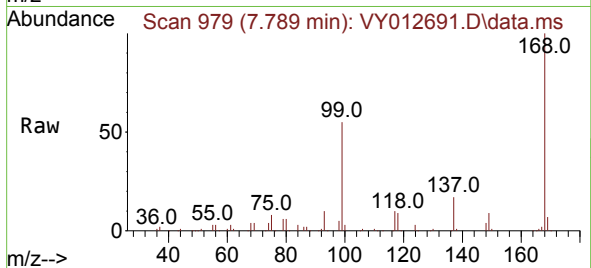




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY012691.D
Acq: 22 Feb 2023 15:20

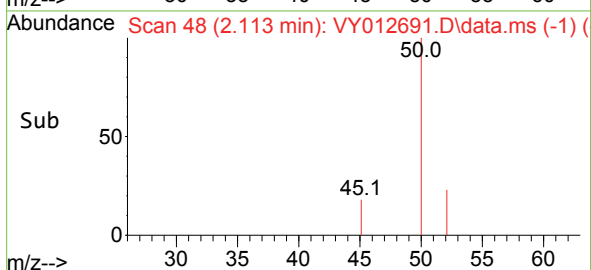
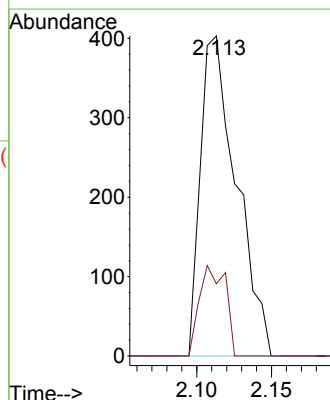
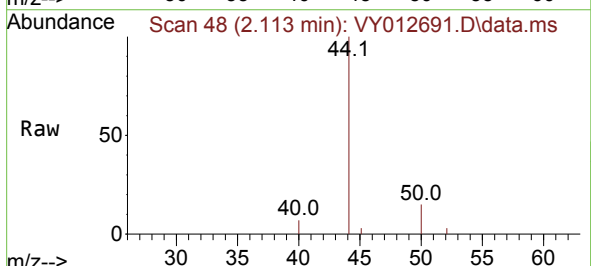
Instrument :
MSVOA_Y
ClientSampleId :
TP-3

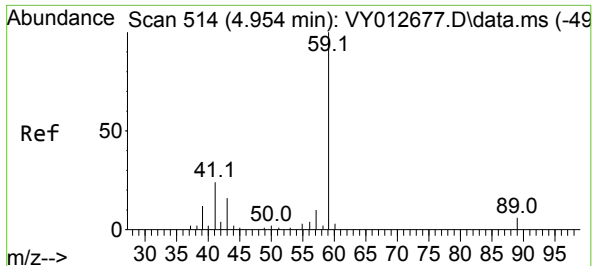
Tgt Ion:168 Resp: 118653
Ion Ratio Lower Upper
168 100
99 54.8 45.4 68.2



#3
Chloromethane
Concen: Below Cal
RT: 2.113 min Scan# 48
Delta R.T. 0.000 min
Lab File: VY012691.D
Acq: 22 Feb 2023 15:20

Tgt Ion: 50 Resp: 674
Ion Ratio Lower Upper
50 100
52 22.6 26.1 39.1#





#11

Tert butyl alcohol

Concen: 1.083 ug/l

RT: 4.966 min Scan# 514

Delta R.T. 0.012 min

Lab File: VY012691.D

Acq: 22 Feb 2023 15:20

Instrument :

MSVOA_Y

ClientSampleId :

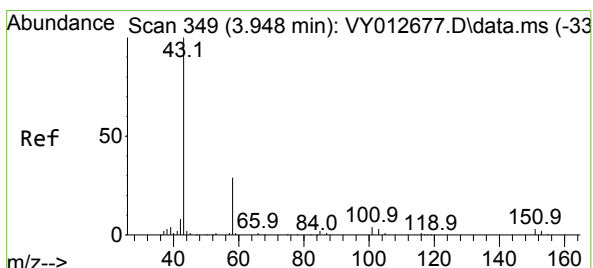
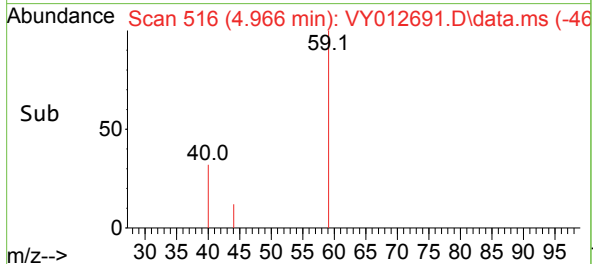
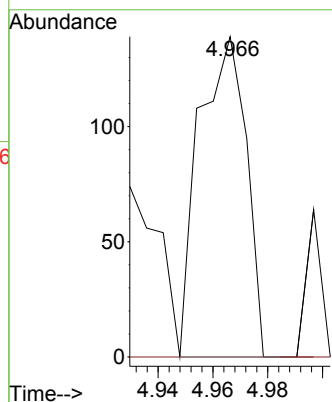
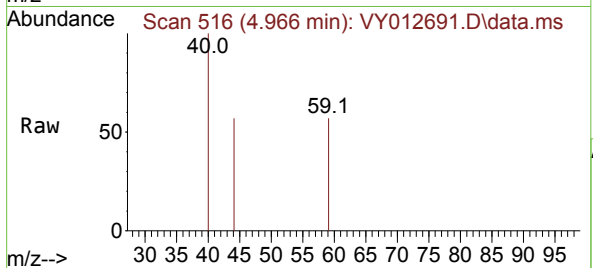
TP-3

Tgt Ion: 59 Resp: 166

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



#16

Acetone

Concen: 90.284 ug/l

RT: 3.948 min Scan# 349

Delta R.T. -0.000 min

Lab File: VY012691.D

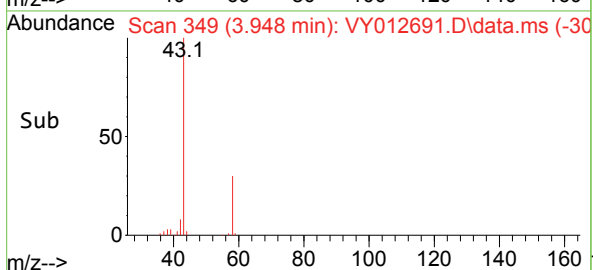
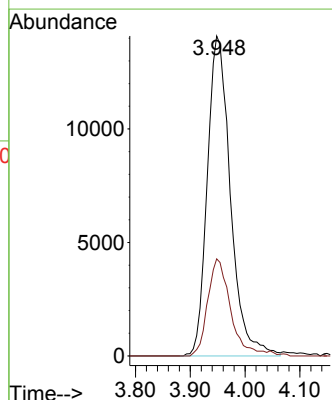
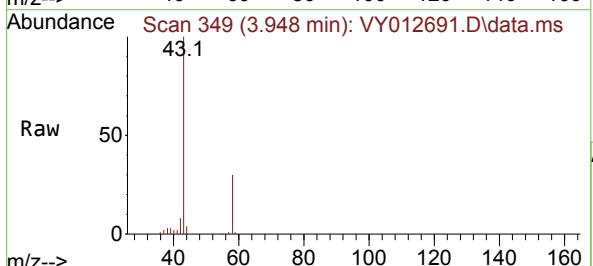
Acq: 22 Feb 2023 15:20

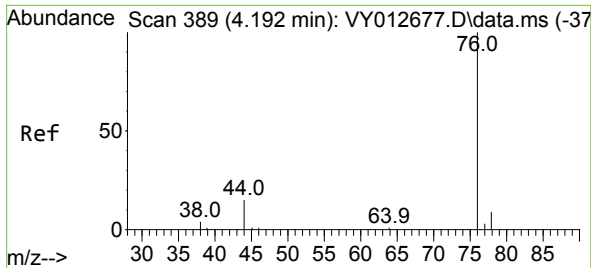
Tgt Ion: 43 Resp: 41284

Ion Ratio Lower Upper

43 100

58 30.4 23.3 34.9





#17

Carbon Disulfide

Concen: 10.695 ug/l

RT: 4.198 min Scan# 389

Delta R.T. 0.006 min

Lab File: VY012691.D

Acq: 22 Feb 2023 15:20

Instrument :

MSVOA_Y

ClientSampleId :

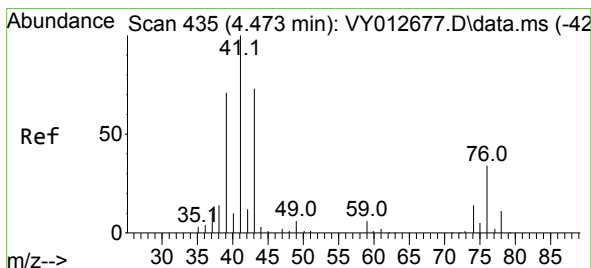
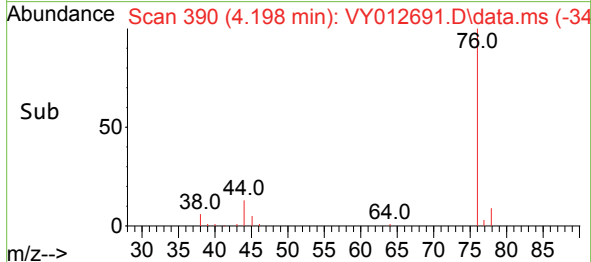
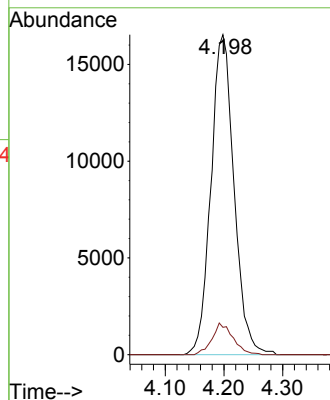
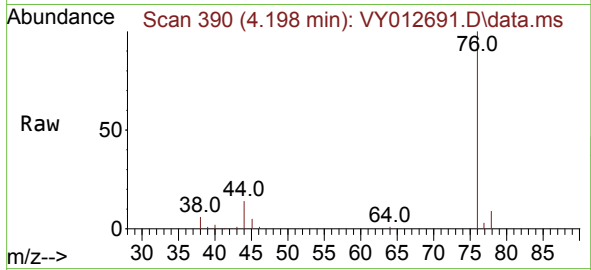
TP-3

Tgt Ion: 76 Resp: 45111

Ion Ratio Lower Upper

76 100

78 8.5 7.1 10.7



#18

Methyl Acetate

Concen: 6.398 ug/l

RT: 4.479 min Scan# 436

Delta R.T. 0.006 min

Lab File: VY012691.D

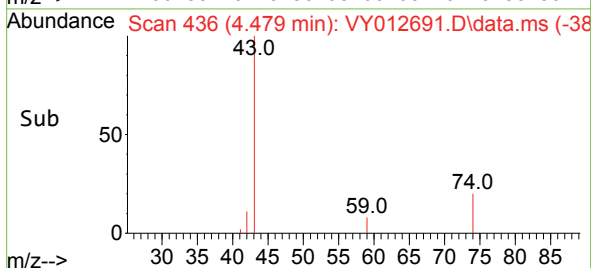
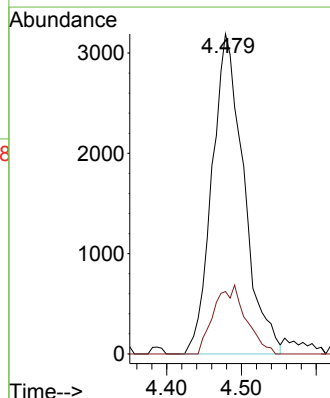
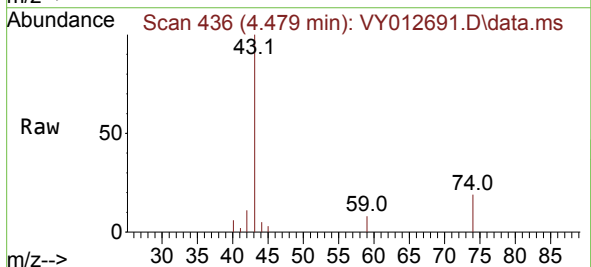
Acq: 22 Feb 2023 15:20

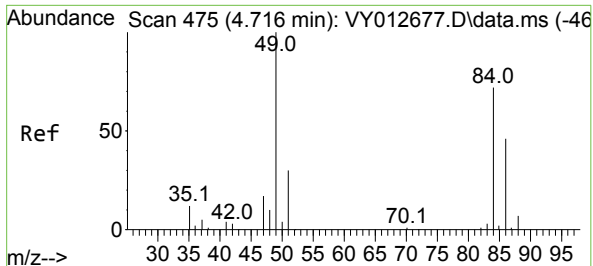
Tgt Ion: 43 Resp: 9424

Ion Ratio Lower Upper

43 100

74 21.7 16.5 24.7





#20

Methylene Chloride

Concen: Below Cal

RT: 4.716 min Scan# 41

Delta R.T. 0.000 min

Lab File: VY012691.D

Acq: 22 Feb 2023 15:20

Instrument :

MSVOA_Y

ClientSampleId :

TP-3

Tgt Ion: 84 Resp: 4331

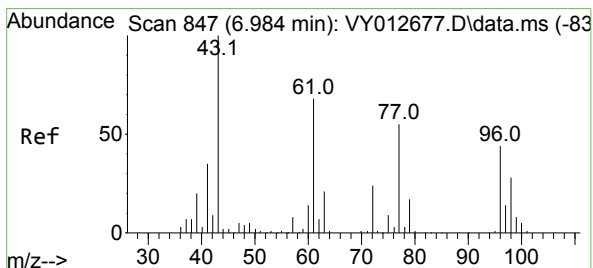
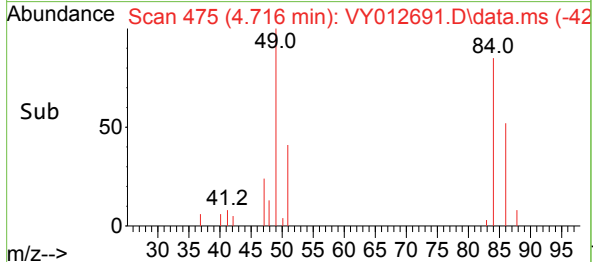
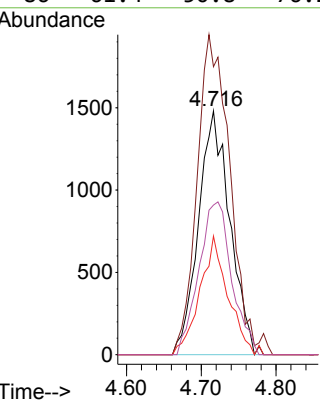
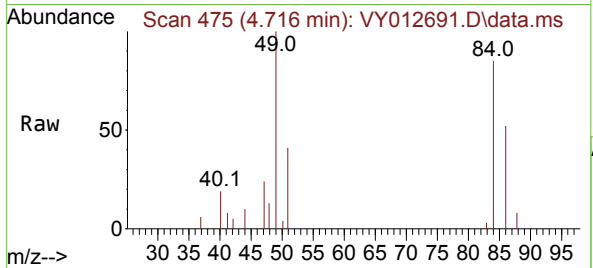
Ion Ratio Lower Upper

84 100

49 118.2 111.1 166.7

51 48.6 33.5 50.3

86 61.4 50.8 76.2



#25

2-Butanone

Concen: 24.202 ug/l

RT: 6.990 min Scan# 848

Delta R.T. 0.006 min

Lab File: VY012691.D

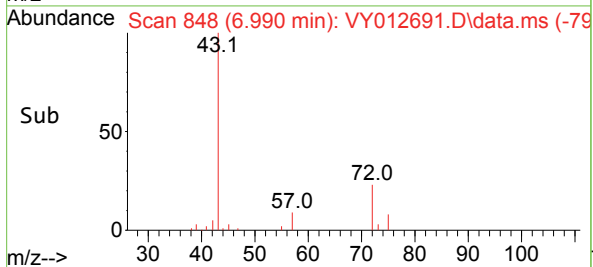
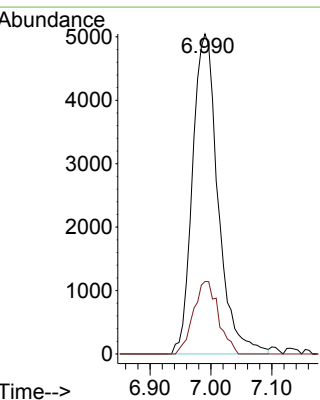
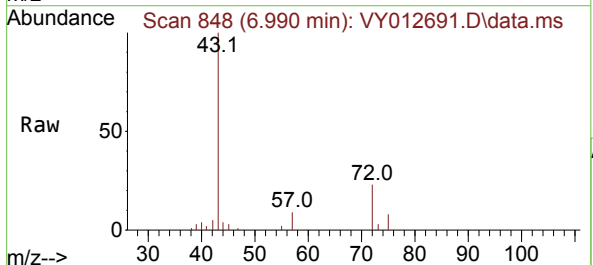
Acq: 22 Feb 2023 15:20

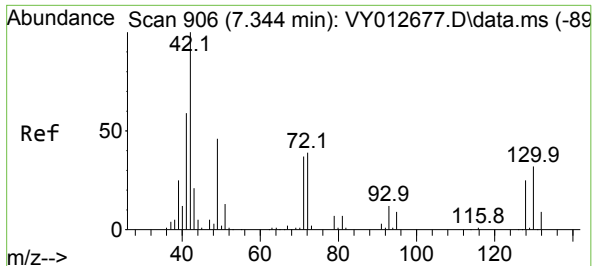
Tgt Ion: 43 Resp: 14688

Ion Ratio Lower Upper

43 100

72 22.7 18.8 28.2





#29

Tetrahydrofuran

Concen: 1.860 ug/l

RT: 7.362 min Scan# 906

Delta R.T. 0.018 min

Lab File: VY012691.D

Acq: 22 Feb 2023 15:20

Instrument :

MSVOA_Y

ClientSampleId :

TP-3

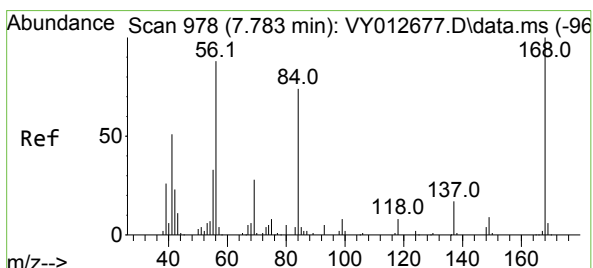
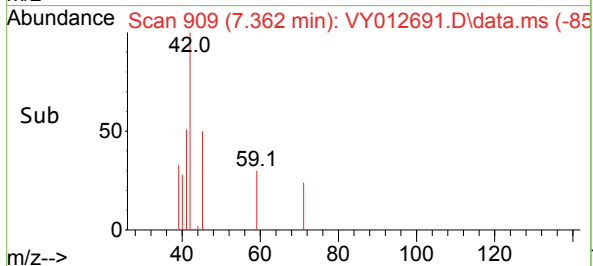
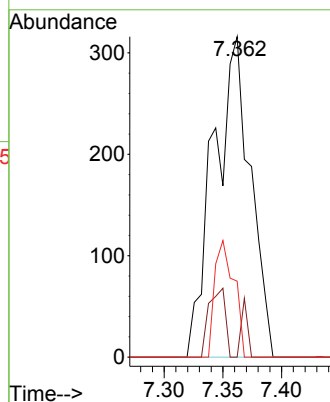
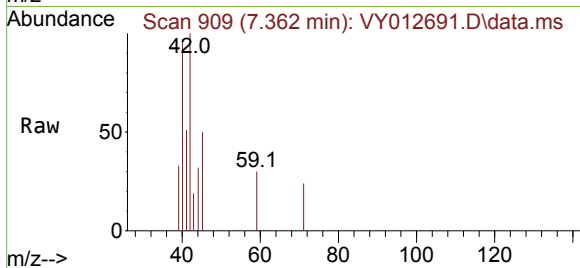
Tgt Ion: 42 Resp: 689

Ion Ratio Lower Upper

42 100

72 3.0 30.6 45.8#

71 0.0 28.6 42.8#



#31

Cyclohexane

Concen: 1.166 ug/l

RT: 7.789 min Scan# 979

Delta R.T. 0.006 min

Lab File: VY012691.D

Acq: 22 Feb 2023 15:20

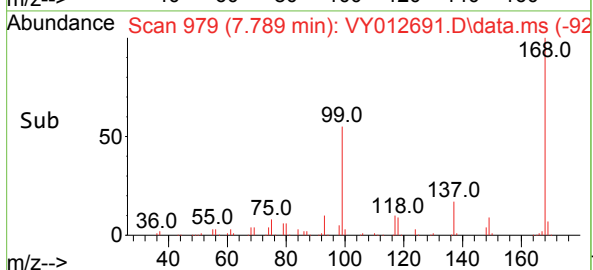
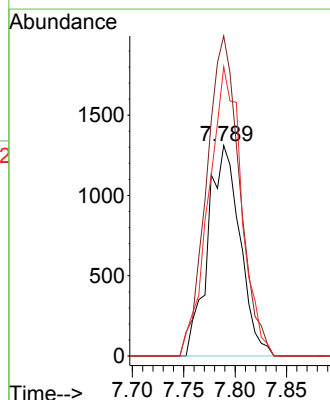
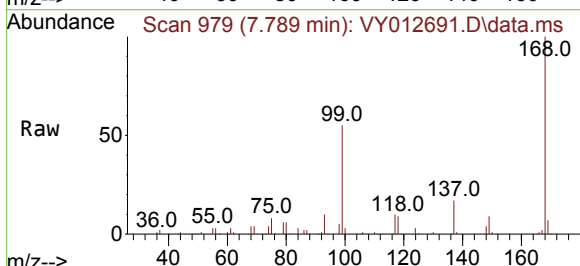
Tgt Ion: 56 Resp: 2839

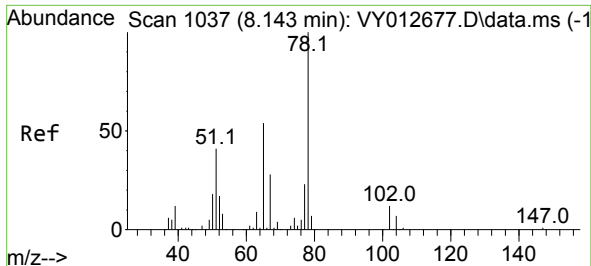
Ion Ratio Lower Upper

56 100

69 152.1 25.4 38.2#

84 137.5 67.3 100.9#





#33

1,2-Dichloroethane-d4

Concen: 55.295 ug/l

RT: 8.143 min Scan# 1037

Delta R.T. -0.001 min

Lab File: VY012691.D

Acq: 22 Feb 2023 15:20

Instrument :

MSVOA_Y

ClientSampleId :

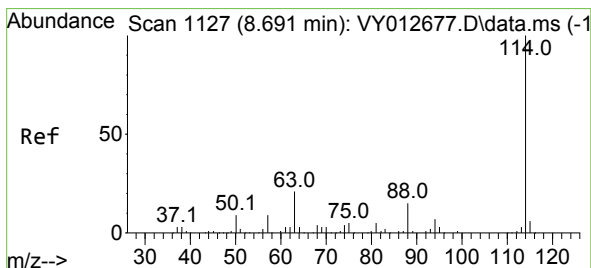
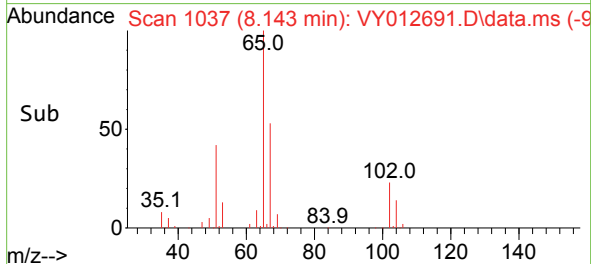
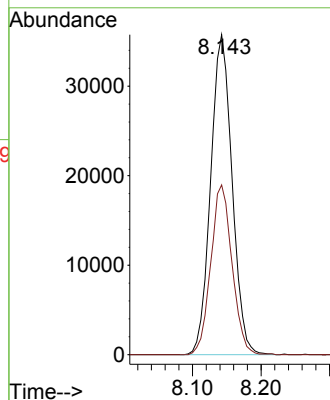
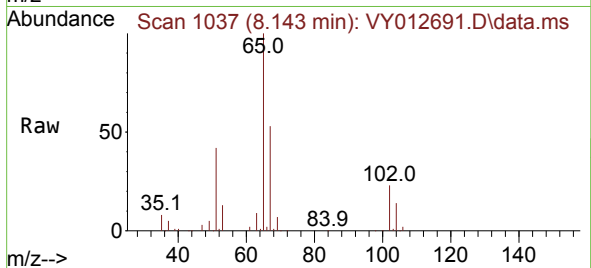
TP-3

Tgt Ion: 65 Resp: 77487

Ion Ratio Lower Upper

65 100

67 52.7 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY012691.D

Acq: 22 Feb 2023 15:20

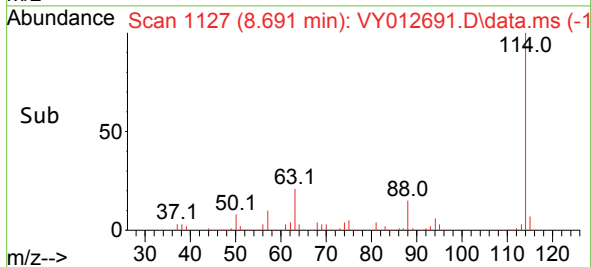
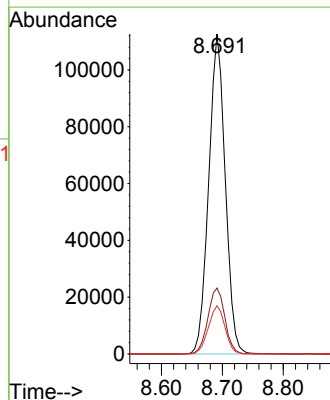
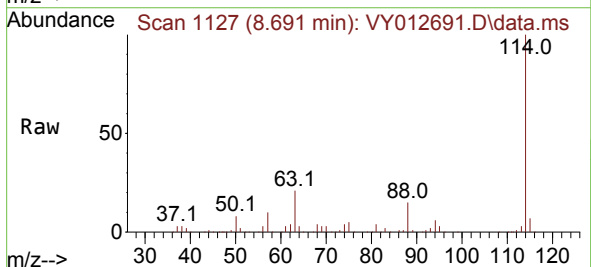
Tgt Ion: 114 Resp: 212422

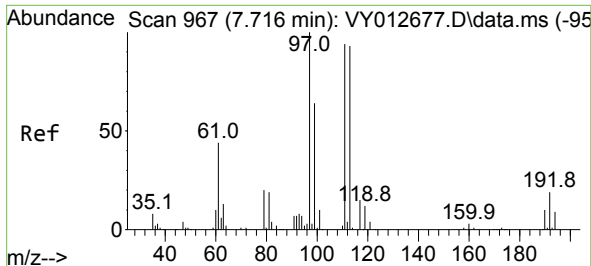
Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.8

88 15.1 0.0 29.6

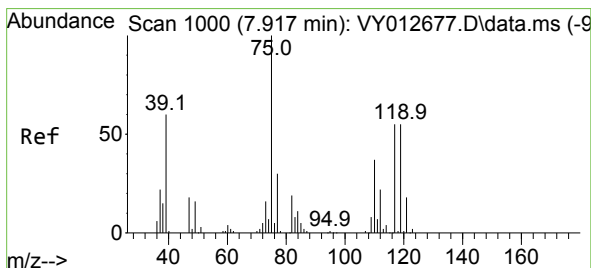
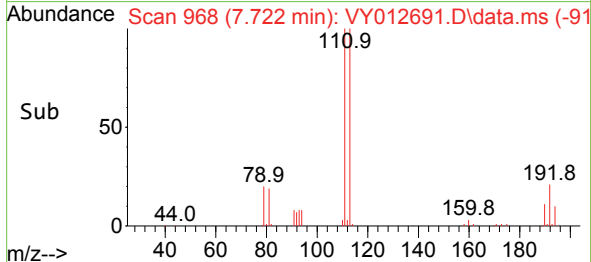
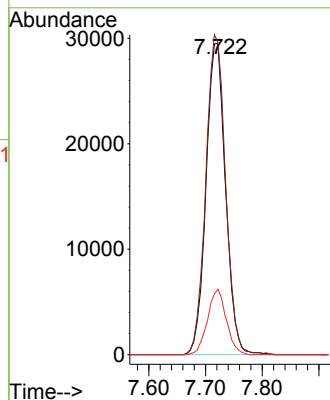
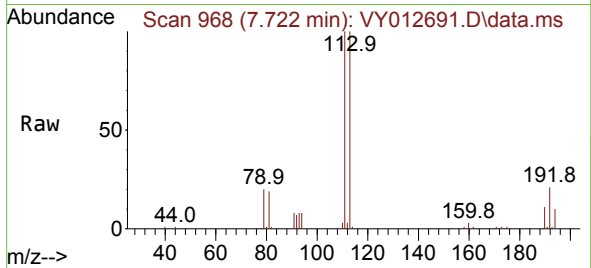




#35
 Dibromofluoromethane
 Concen: 49.199 ug/l
 RT: 7.722 min Scan# 90
 Delta R.T. 0.006 min
 Lab File: VY012691.D
 Acq: 22 Feb 2023 15:20

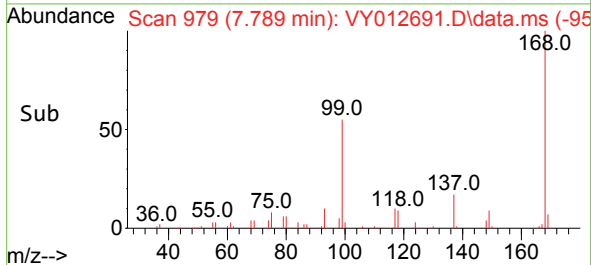
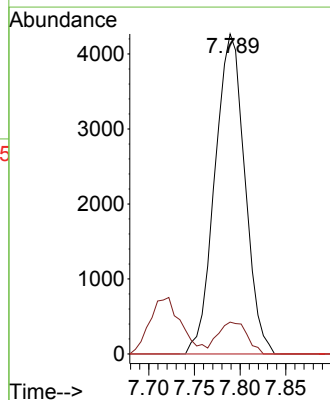
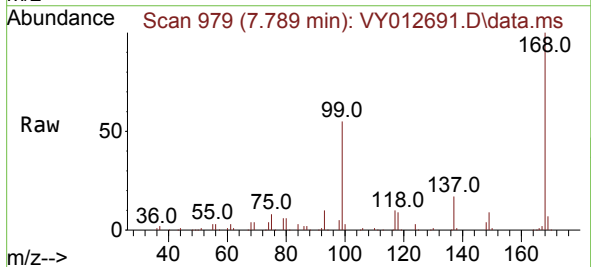
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-3

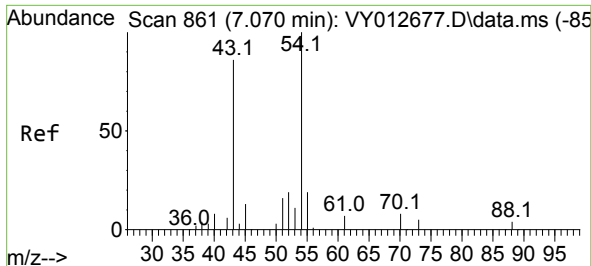
Tgt Ion:113 Resp: 70589
 Ion Ratio Lower Upper
 113 100
 111 104.4 82.0 123.0
 192 20.3 16.2 24.2



#36
 1,1-Dichloropropene
 Concen: 4.278 ug/l
 RT: 7.789 min Scan# 979
 Delta R.T. -0.128 min
 Lab File: VY012691.D
 Acq: 22 Feb 2023 15:20

Tgt Ion: 75 Resp: 9730
 Ion Ratio Lower Upper
 75 100
 110 9.6 17.6 52.8#
 77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 9.571 ug/l

RT: 6.990 min Scan# 84

Delta R.T. -0.080 min

Lab File: VY012691.D

Acq: 22 Feb 2023 15:20

Instrument :

MSVOA_Y

ClientSampleId :

TP-3

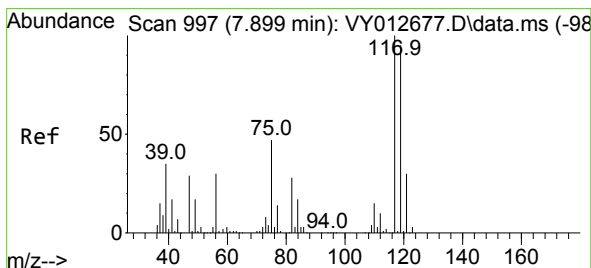
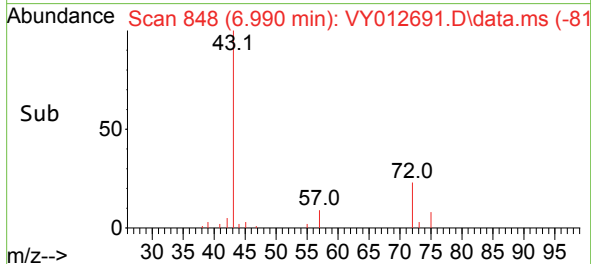
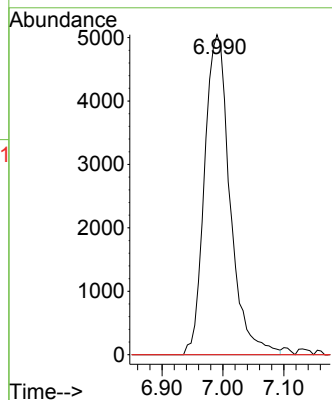
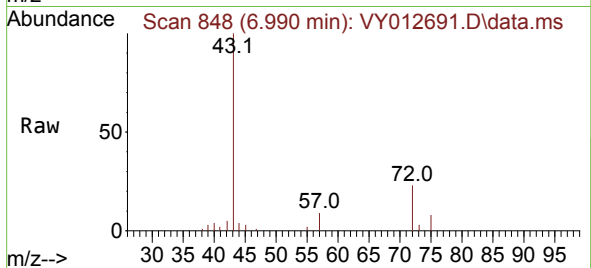
Tgt Ion: 43 Resp: 14688

Ion Ratio Lower Upper

43 100

61 0.0 9.9 14.9#

70 0.0 6.4 9.6#



#38

Carbon Tetrachloride

Concen: 4.985 ug/l

RT: 7.789 min Scan# 979

Delta R.T. -0.110 min

Lab File: VY012691.D

Acq: 22 Feb 2023 15:20

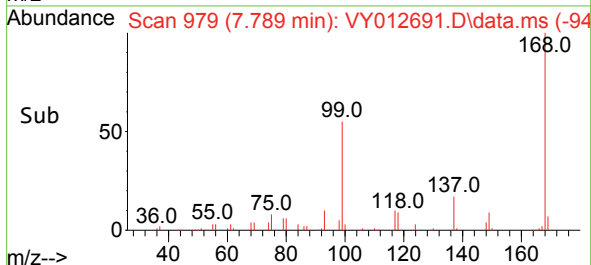
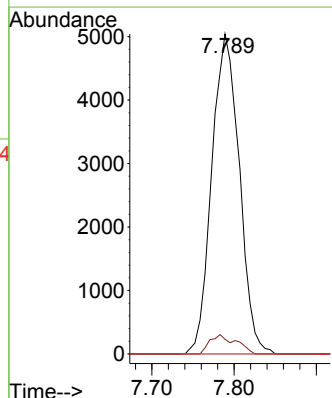
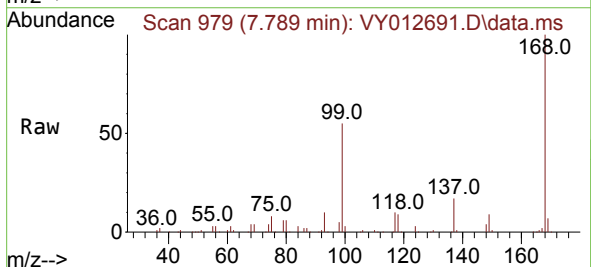
Tgt Ion: 117 Resp: 11722

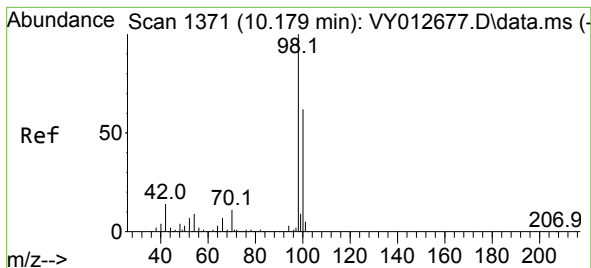
Ion Ratio Lower Upper

117 100

119 4.6 75.5 113.3#

121 0.0 23.8 35.8#

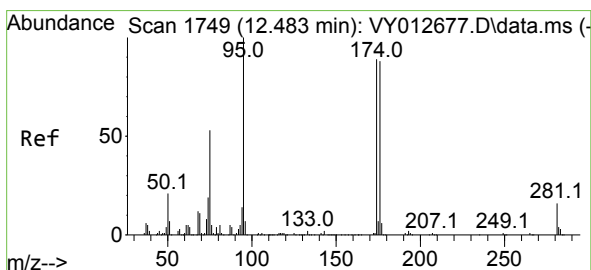
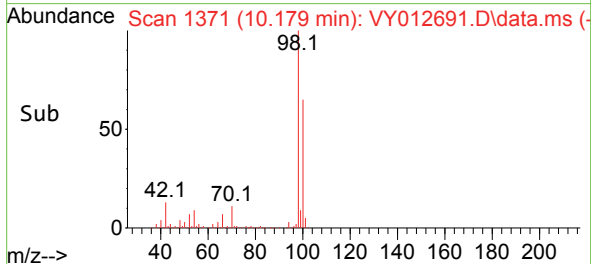
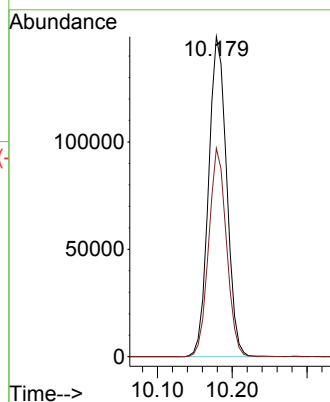
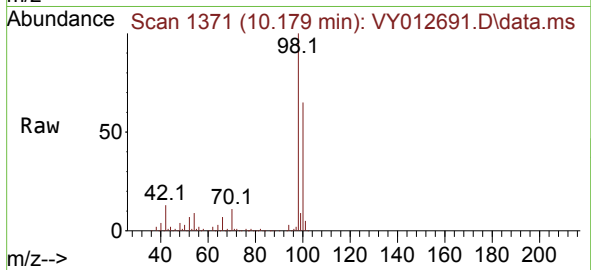




#50
Toluene-d8
Concen: 46.413 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY012691.D
Acq: 22 Feb 2023 15:20

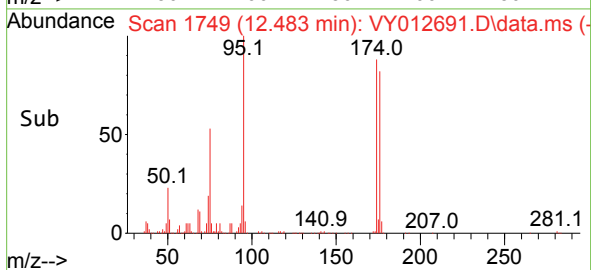
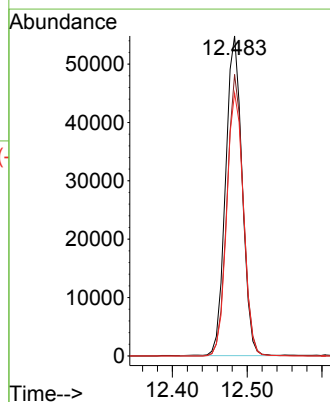
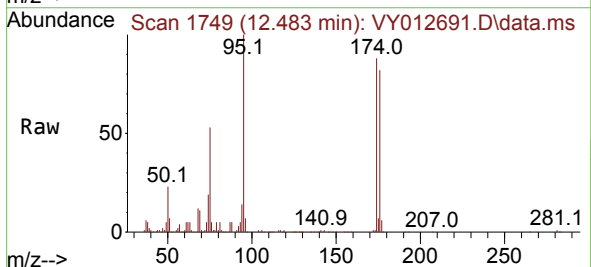
Instrument :
MSVOA_Y
ClientSampleId :
TP-3

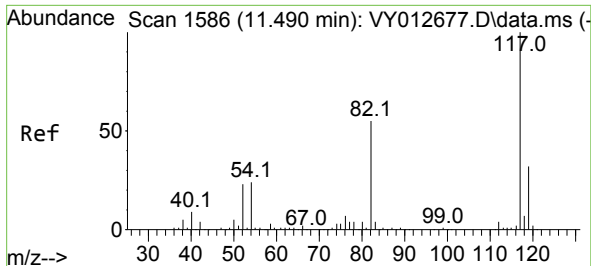
Tgt Ion: 98 Resp: 249481
Ion Ratio Lower Upper
98 100
100 64.1 51.2 76.8



#62
4-Bromofluorobenzene
Concen: 49.135 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VY012691.D
Acq: 22 Feb 2023 15:20

Tgt Ion: 95 Resp: 84518
Ion Ratio Lower Upper
95 100
174 86.6 0.0 172.8
176 83.4 0.0 169.4

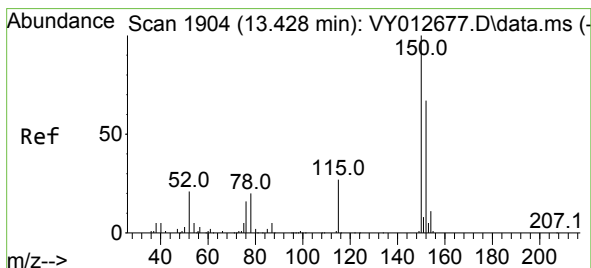
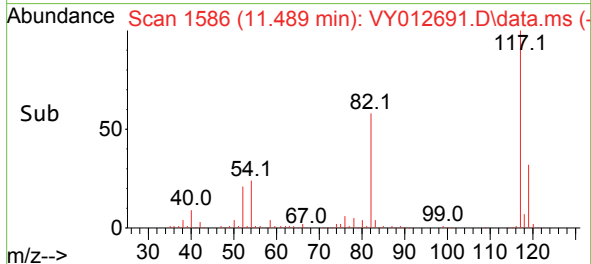
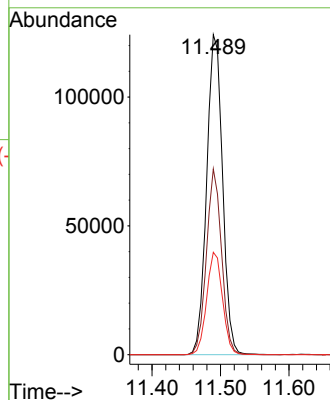
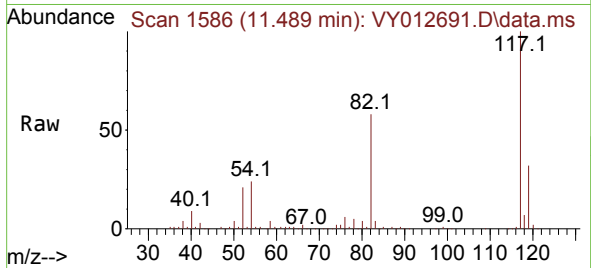




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 11
Delta R.T. -0.001 min
Lab File: VY012691.D
Acq: 22 Feb 2023 15:20

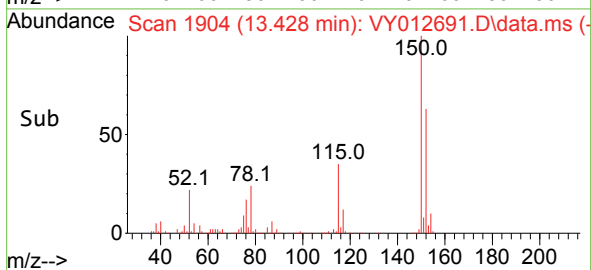
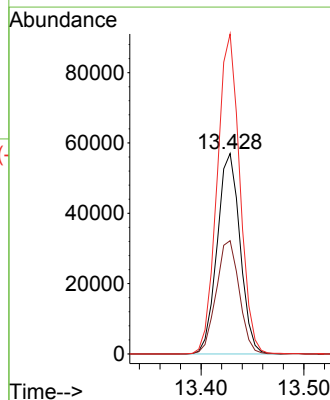
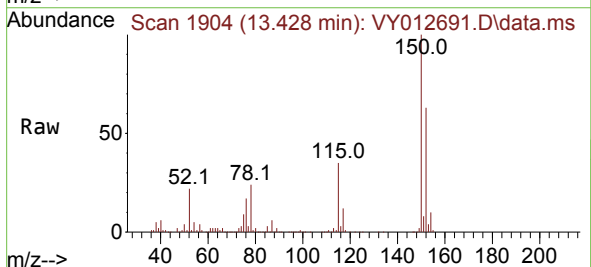
Instrument :
MSVOA_Y
ClientSampleId :
TP-3

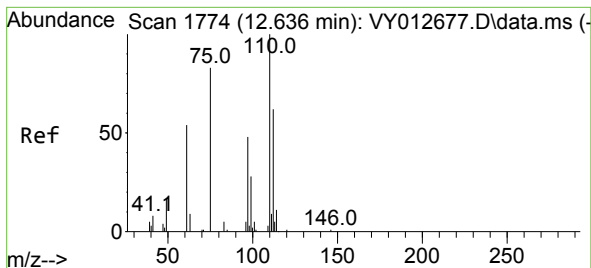
Tgt Ion:117 Resp: 200892
Ion Ratio Lower Upper
117 100
82 58.1 44.1 66.1
119 32.0 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY012691.D
Acq: 22 Feb 2023 15:20

Tgt Ion:152 Resp: 88052
Ion Ratio Lower Upper
152 100
115 57.0 28.7 86.3
150 158.1 0.0 347.6





#76

1,2,3-Trichloropropane

Concen: 40.999 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. -0.153 min

Lab File: VY012691.D

Acq: 22 Feb 2023 15:20

Instrument :

MSVOA_Y

ClientSampleId :

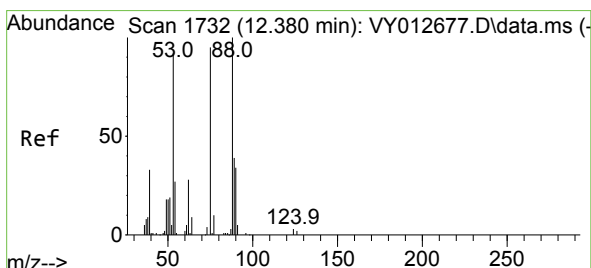
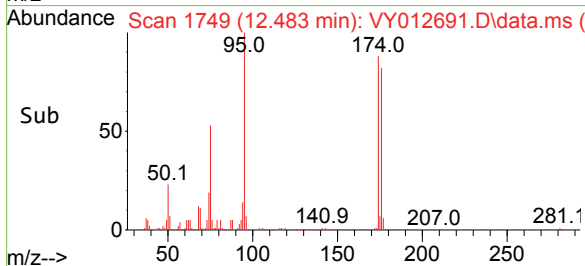
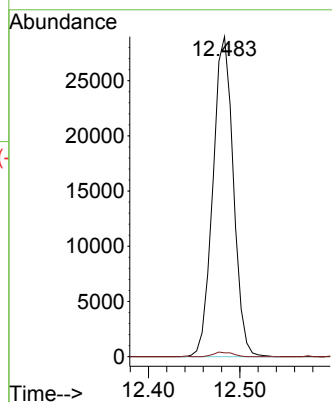
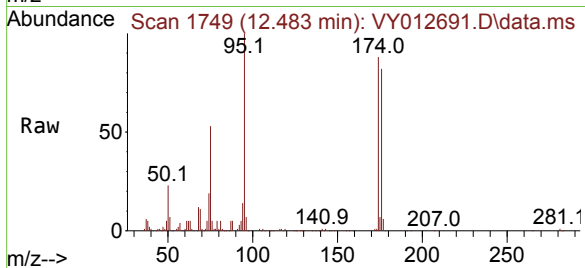
TP-3

Tgt Ion: 75 Resp: 45005

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 86.855 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.103 min

Lab File: VY012691.D

Acq: 22 Feb 2023 15:20

Tgt Ion: 75 Resp: 45005

Ion Ratio Lower Upper

75 100

53 0.3 80.4 120.6#

89 0.0 36.5 54.7#

