

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090924\
 Data File : VY019465.D
 Acq On : 09 Sep 2024 15:10
 Operator : SY/MD
 Sample : P3891-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 10 01:48:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 09 16:00:30 2024
 Response via : Initial Calibration

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

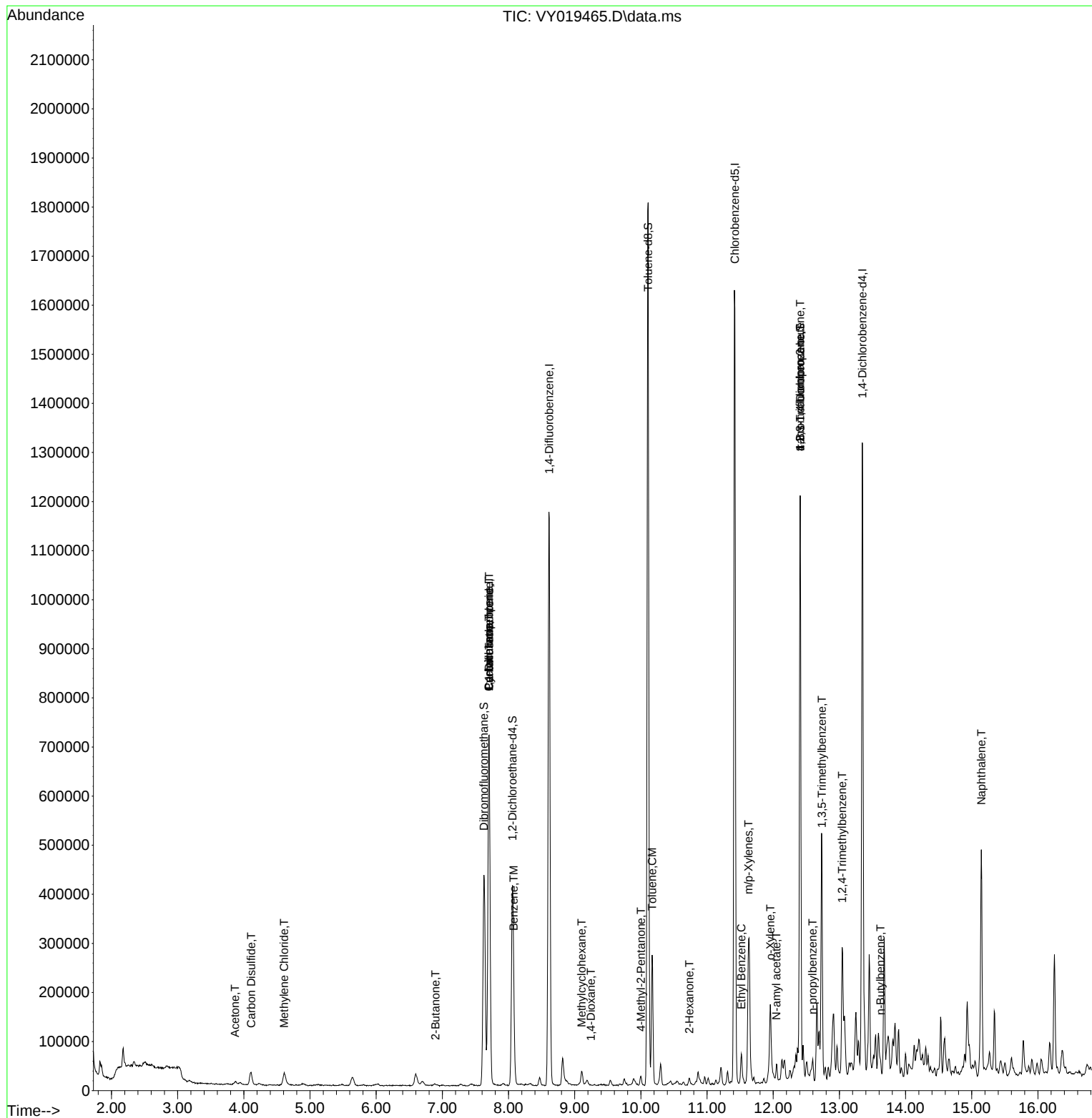
Internal Standards						
1) Pentafluorobenzene	7.707	168	536478	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.616	114	1007166	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	868025	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	309210	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	296826	59.752	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 119.500%	
35) Dibromofluoromethane	7.628	113	312823	54.781	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 109.560%	
50) Toluene-d8	10.109	98	1175183	55.639	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 111.280%	
62) 4-Bromofluorobenzene	12.408	95	384265	47.315	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	= 94.620%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.867	85	490	Below Cal	#	43
13) Acrolein	3.629	56	522	Below Cal	#	1
16) Acetone	3.867	43	10777	9.106	ug/l	# 82
17) Carbon Disulfide	4.110	76	51731	4.023	ug/l	# 93
20) Methylene Chloride	4.610	84	18492	3.426	ug/l	# 83
25) 2-Butanone	6.896	43	1816	1.079	ug/l	# 74
31) Cyclohexane	7.701	56	16631	1.871	ug/l	# 24
36) 1,1-Dichloropropene	7.701	75	43998	5.662	ug/l	# 48
38) Carbon Tetrachloride	7.707	117	57076	6.514	ug/l	# 16
39) Methylcyclohexane	9.103	83	12573	1.216	ug/l	# 85
40) Benzene	8.079	78	77374	3.233	ug/l	95
49) 1,4-Dioxane	9.244	88	44	1.168	ug/l	# 20
51) 4-Methyl-2-Pentanone	10.000	43	12509	2.973	ug/l	93
52) Toluene	10.170	92	107490	6.983	ug/l	99
59) 2-Hexanone	10.731	43	8079	2.619	ug/l	# 19
67) Ethyl Benzene	11.518	91	38559	1.271	ug/l	96
68) m/p-Xylenes	11.627	106	71017	6.191	ug/l	94
69) o-Xylene	11.957	106	34242	3.052	ug/l	94
74) N-amyl acetate	12.048	43	10547	1.729	ug/l	# 50
76) 1,2,3-Trichloropropane	12.408	75	200236	69.090	ug/l	# 100
78) n-propylbenzene	12.597	91	33997	1.279	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	53915	2.956	ug/l	96
81) trans-1,4-Dichloro-2-b...	12.408	75	200236	132.633	ug/l	# 16
84) 1,2,4-Trimethylbenzene	13.042	105	145046	8.035	ug/l	93
89) n-Butylbenzene	13.621	91	24227	1.291	ug/l	# 72
95) Naphthalene	15.145	128	345648	32.896	ug/l	99

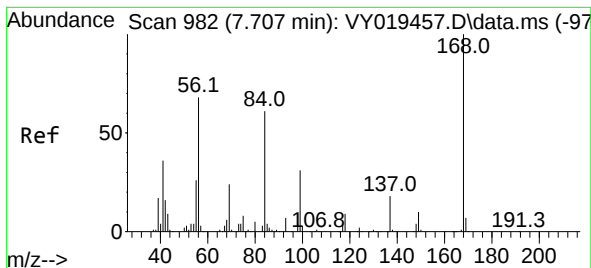
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 10 01:48:35 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
Quant Title : SW846 8260
QLast Update : Mon Sep 09 16:00:30 2024
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.707 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

Instrument :

MSVOA_Y

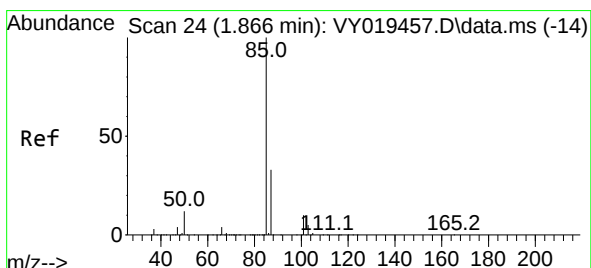
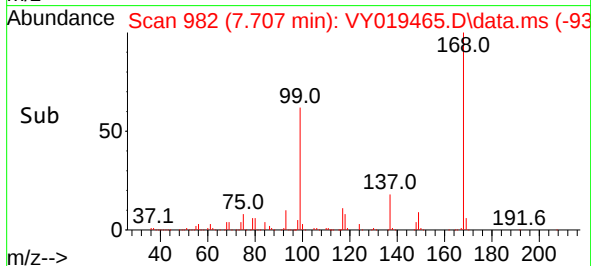
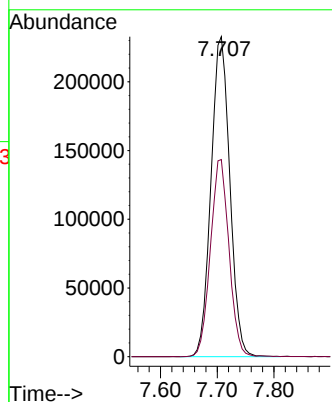
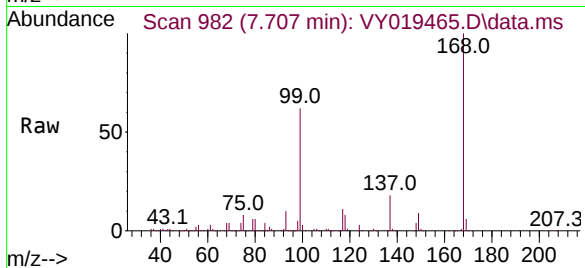
ClientSampleId :

Tgt Ion:168 Resp: 536478

Ion Ratio Lower Upper

168 100

99 61.6 39.1 58.7#



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.867 min Scan# 24

Delta R.T. 0.001 min

Lab File: VY019465.D

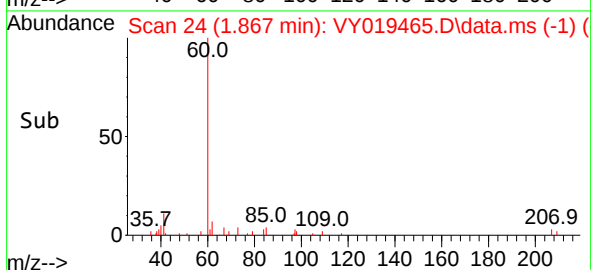
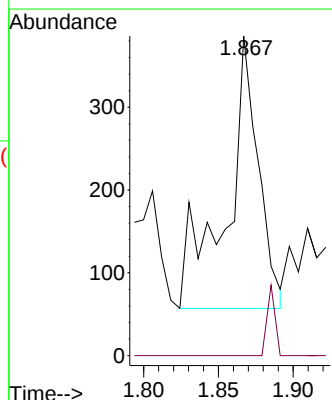
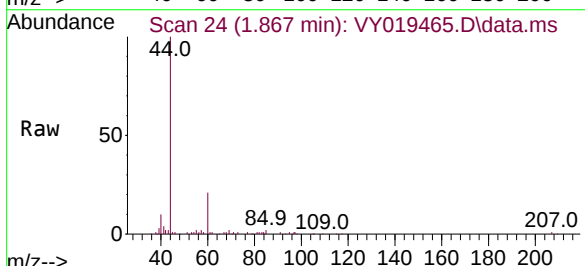
Acq: 09 Sep 2024 15:10

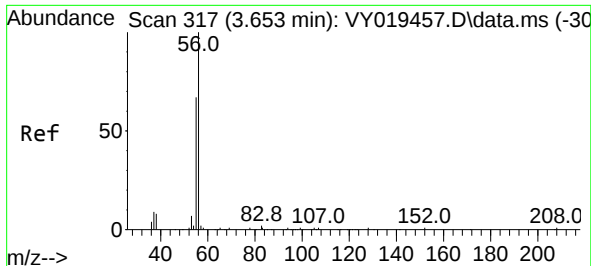
Tgt Ion: 85 Resp: 490

Ion Ratio Lower Upper

85 100

87 0.0 16.0 48.0#





#13

Acrolein

Concen: Below Cal

RT: 3.629 min Scan# 31

Delta R.T. -0.024 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

Instrument :

MSVOA_Y

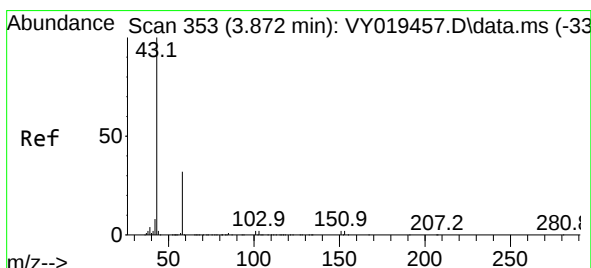
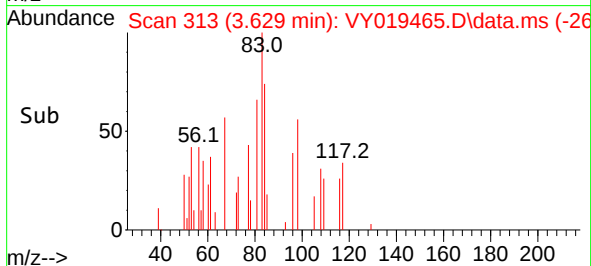
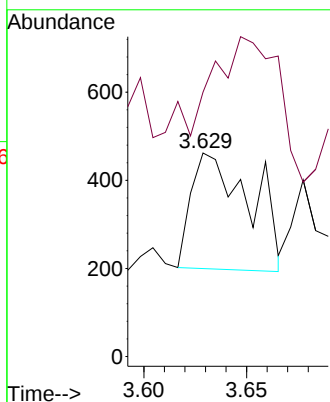
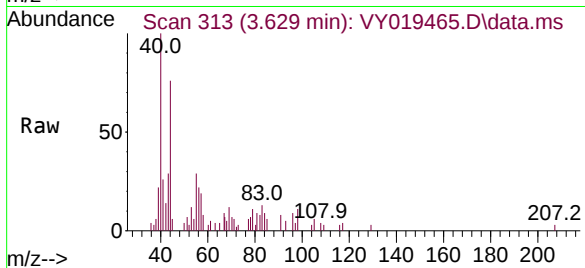
ClientSampleId :

Tgt Ion: 56 Resp: 522

Ion Ratio Lower Upper

56 100

55 192.5 55.7 83.5#



#16

Acetone

Concen: 9.106 ug/l

RT: 3.867 min Scan# 352

Delta R.T. -0.006 min

Lab File: VY019465.D

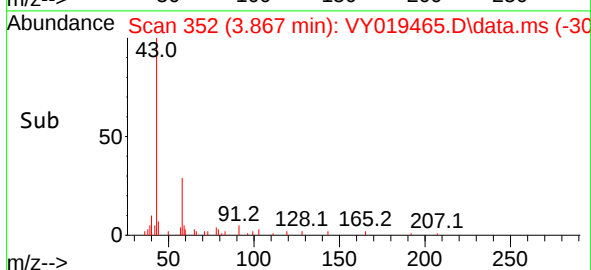
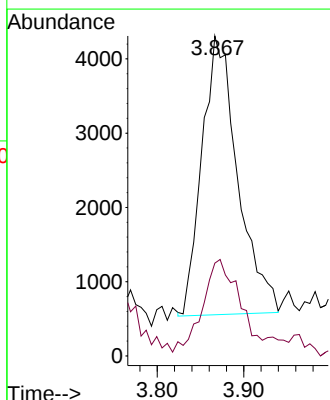
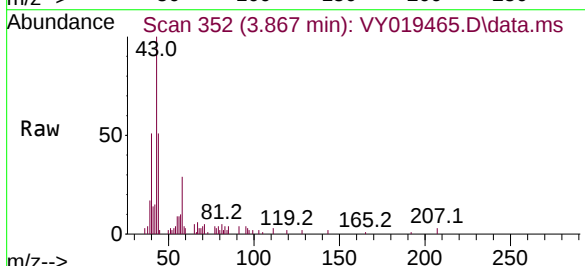
Acq: 09 Sep 2024 15:10

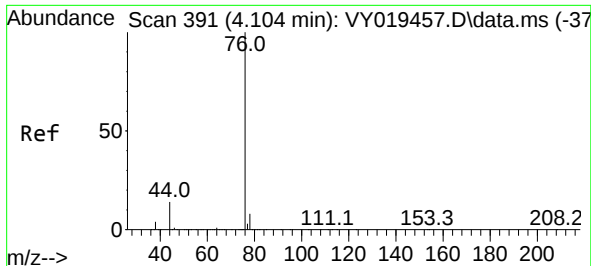
Tgt Ion: 43 Resp: 10777

Ion Ratio Lower Upper

43 100

58 28.4 31.7 47.5#

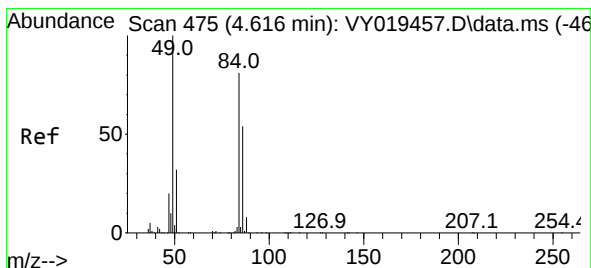
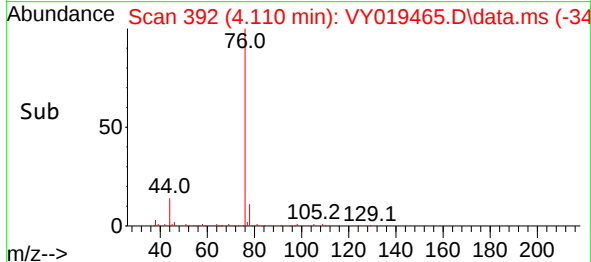
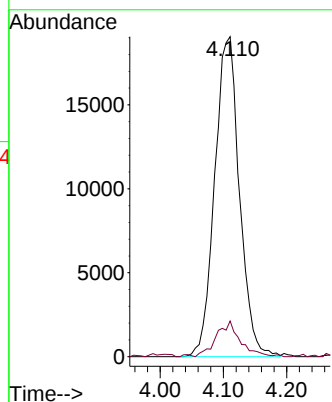
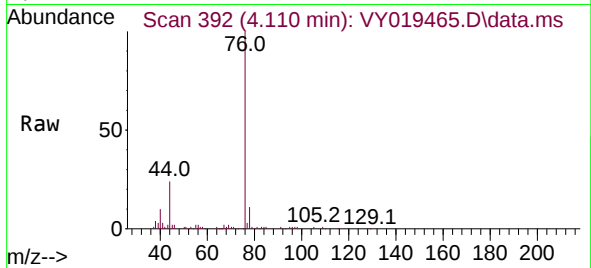




#17
Carbon Disulfide
Concen: 4.023 ug/l
RT: 4.110 min Scan# 391
Delta R.T. 0.006 min
Lab File: VY019465.D
Acq: 09 Sep 2024 15:10

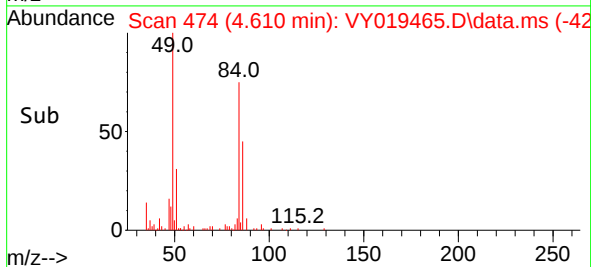
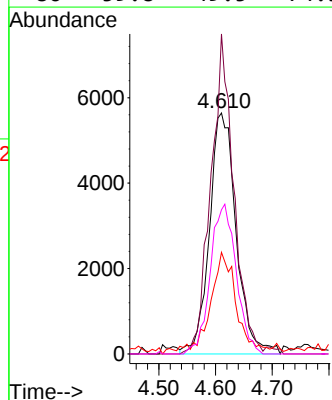
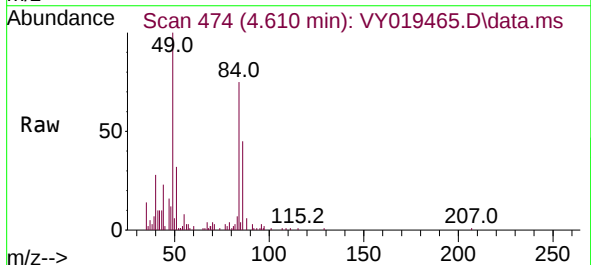
Instrument :
MSVOA_Y
ClientSampleId :

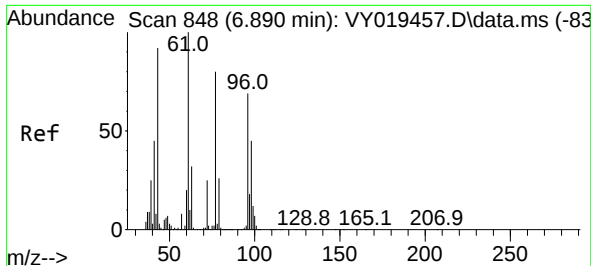
Tgt Ion: 76 Resp: 51731
Ion Ratio Lower Upper
76 100
78 11.1 6.8 10.2#



#20
Methylene Chloride
Concen: 3.426 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY019465.D
Acq: 09 Sep 2024 15:10

Tgt Ion: 84 Resp: 18492
Ion Ratio Lower Upper
84 100
49 132.8 84.4 126.6#
51 40.1 26.0 39.0#
86 59.8 49.5 74.3

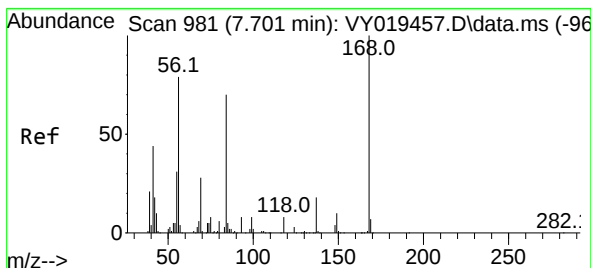
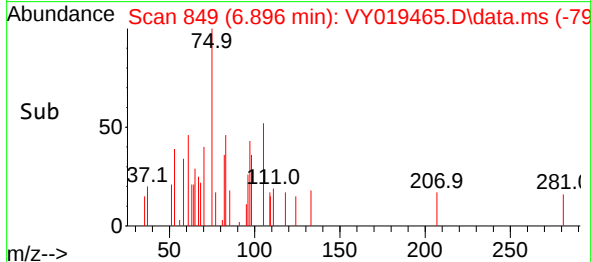
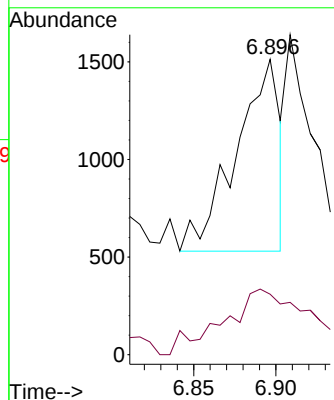
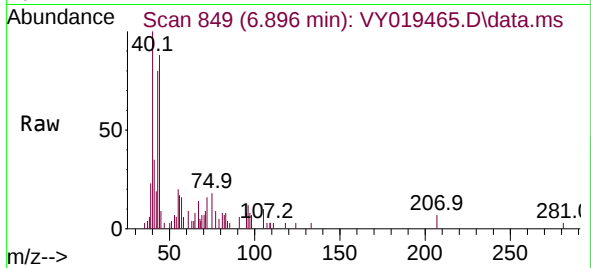




#25
2-Butanone
Concen: 1.079 ug/l
RT: 6.896 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY019465.D
Acq: 09 Sep 2024 15:10

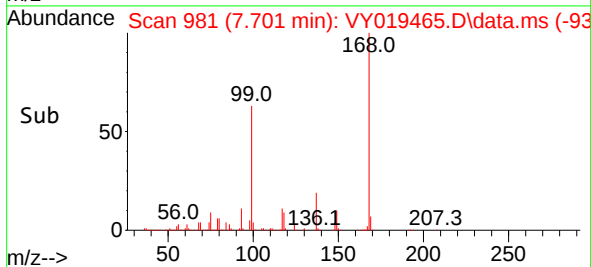
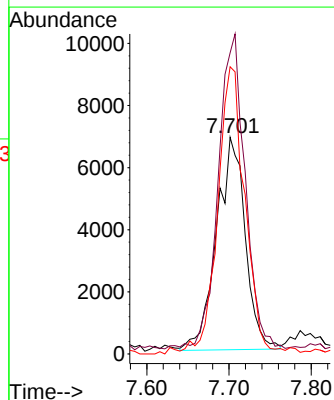
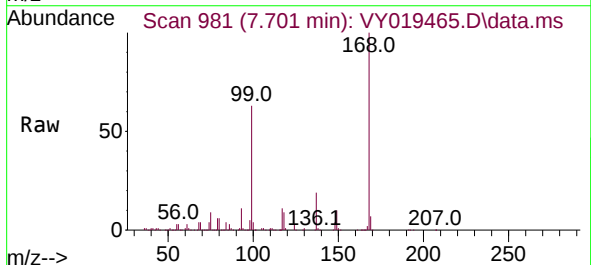
Instrument :
MSVOA_Y
ClientSampleId :

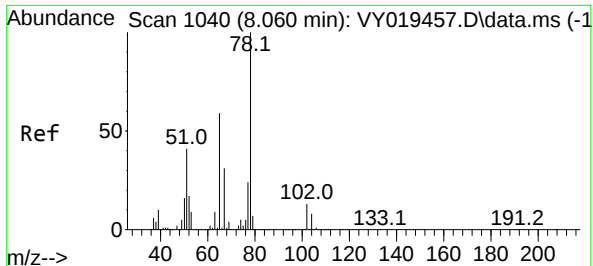
Tgt Ion: 43 Resp: 1816
Ion Ratio Lower Upper
43 100
72 18.9 27.3 40.9#



#31
Cyclohexane
Concen: 1.871 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY019465.D
Acq: 09 Sep 2024 15:10

Tgt Ion: 56 Resp: 16631
Ion Ratio Lower Upper
56 100
69 139.4 28.7 43.1#
84 134.8 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 59.752 ug/l

RT: 8.061 min Scan# 11040

Delta R.T. 0.000 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

Instrument :

MSVOA_Y

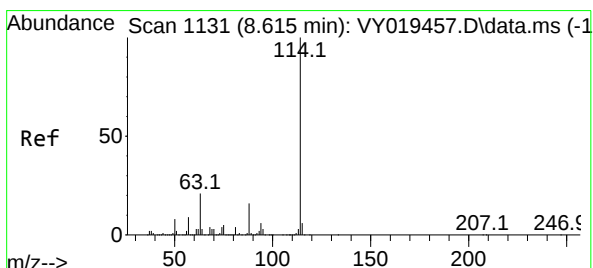
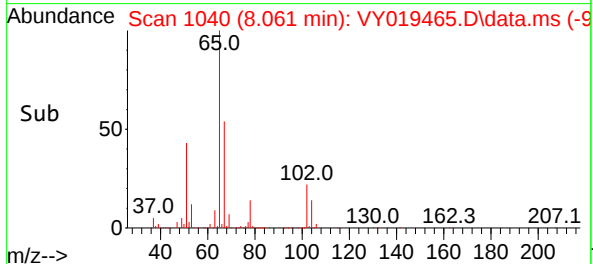
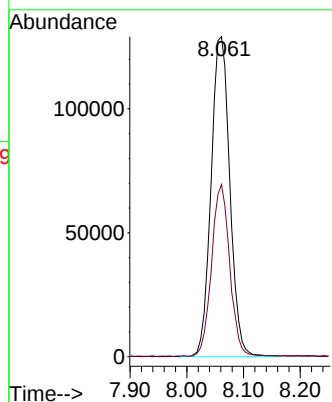
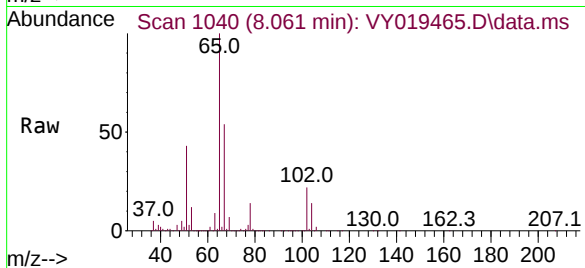
ClientSampleId :

Tgt Ion: 65 Resp: 296826

Ion Ratio Lower Upper

65 100

67 51.8 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

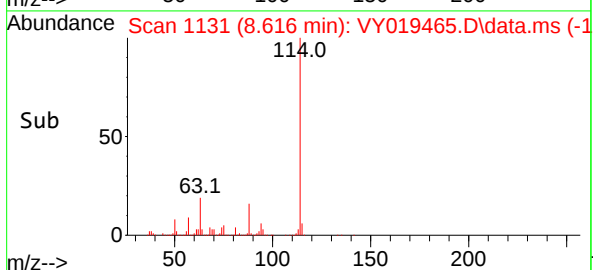
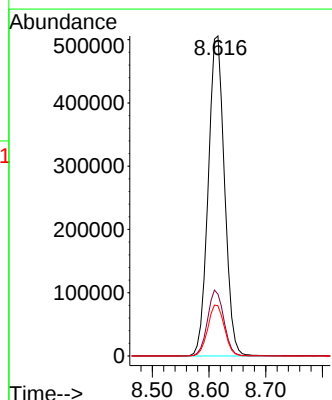
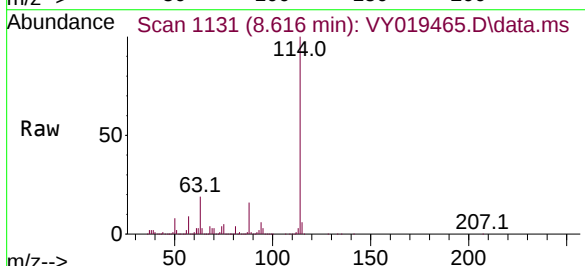
Tgt Ion: 114 Resp: 1007166

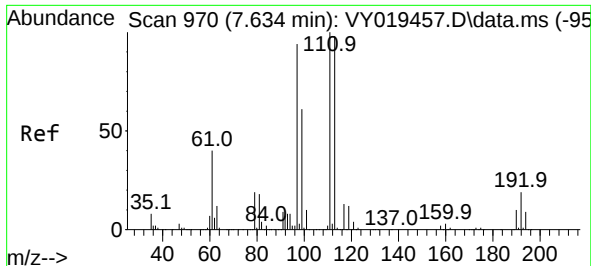
Ion Ratio Lower Upper

114 100

63 19.3 0.0 35.0

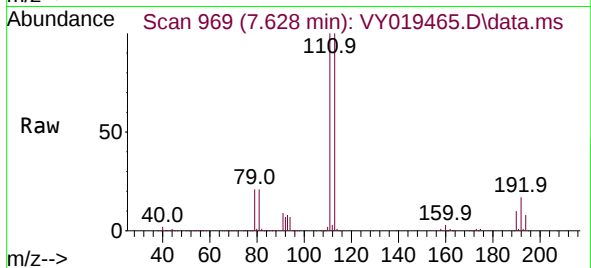
88 15.7 0.0 27.2





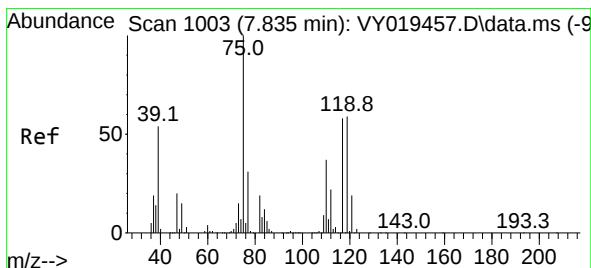
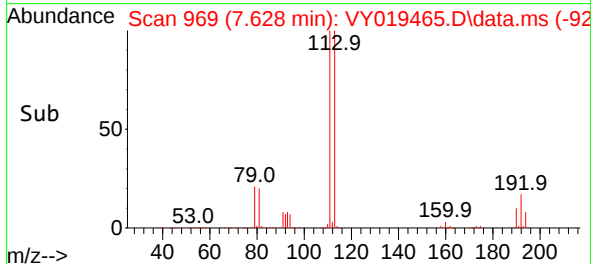
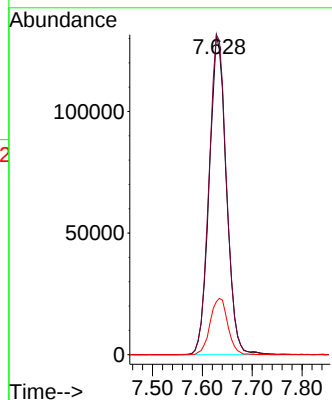
#35
 Dibromofluoromethane
 Concen: 54.781 ug/l
 RT: 7.628 min Scan# 910
 Delta R.T. -0.006 min
 Lab File: VY019465.D
 Acq: 09 Sep 2024 15:10

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:113 Resp: 312823

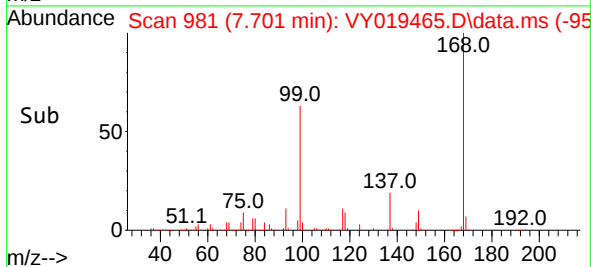
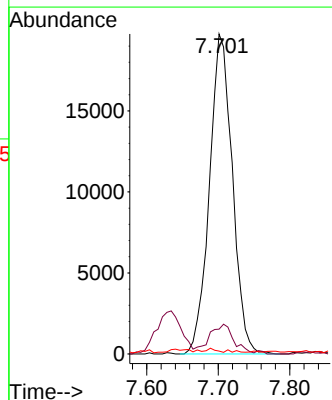
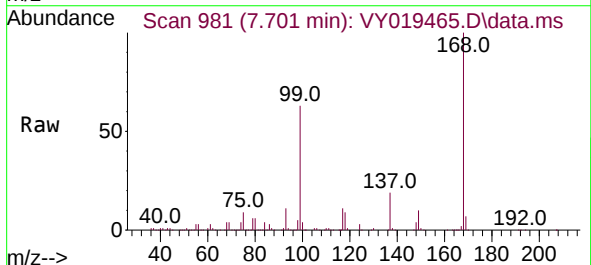
Ion	Ratio	Lower	Upper
113	100		
111	102.6	82.2	123.4
192	18.2	15.9	23.9

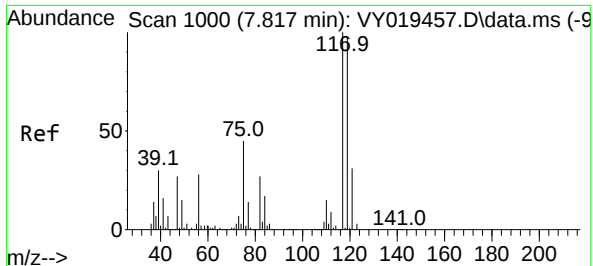


#36
 1,1-Dichloropropene
 Concen: 5.662 ug/l
 RT: 7.701 min Scan# 981
 Delta R.T. -0.134 min
 Lab File: VY019465.D
 Acq: 09 Sep 2024 15:10

Tgt Ion: 75 Resp: 43998

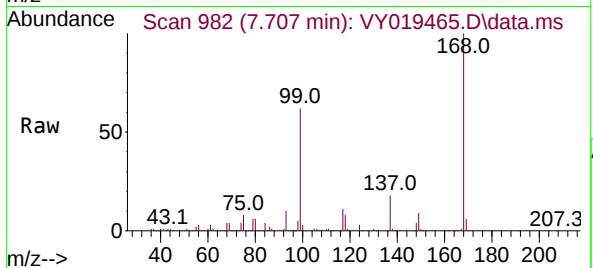
Ion	Ratio	Lower	Upper
75	100		
110	9.6	19.0	57.0#
77	0.0	25.3	37.9#



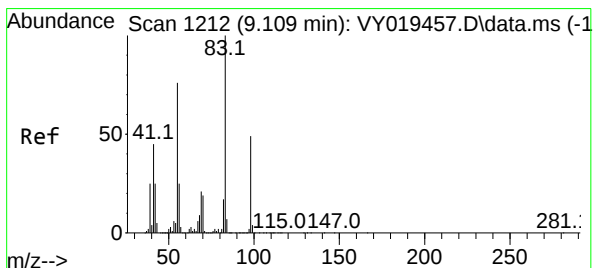
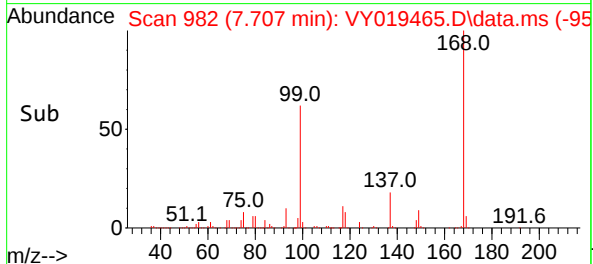
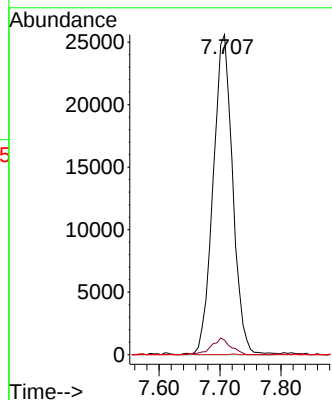


#38
Carbon Tetrachloride
Concen: 6.514 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.109 min
Lab File: VY019465.D
Acq: 09 Sep 2024 15:10

Instrument :
MSVOA_Y
ClientSampleId :

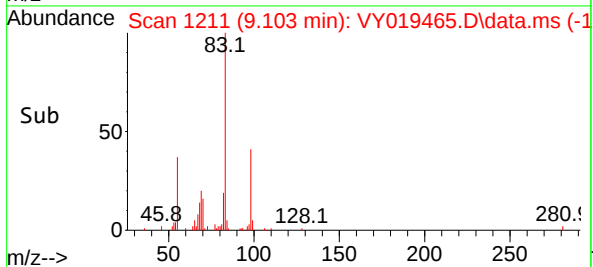
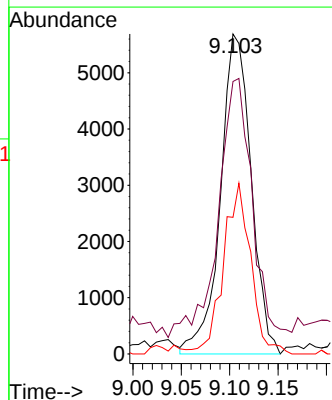
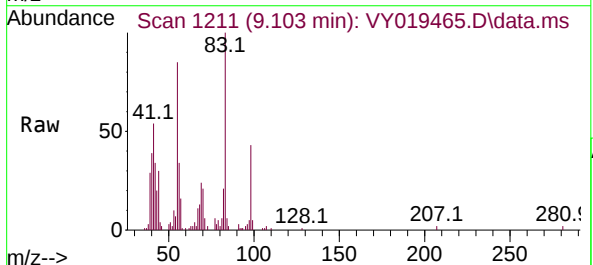


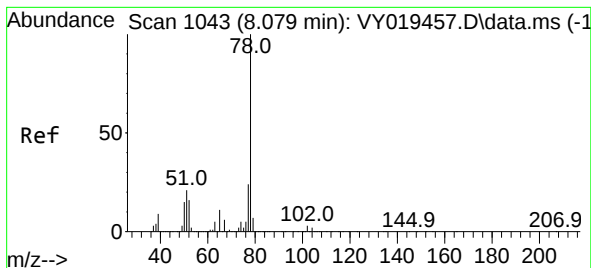
Tgt Ion:117 Resp: 57076
Ion Ratio Lower Upper
117 100
119 4.6 75.8 113.6#
121 0.0 24.0 36.0#



#39
Methylcyclohexane
Concen: 1.216 ug/l
RT: 9.103 min Scan# 1211
Delta R.T. -0.006 min
Lab File: VY019465.D
Acq: 09 Sep 2024 15:10

Tgt Ion: 83 Resp: 12573
Ion Ratio Lower Upper
83 100
55 77.4 51.5 77.3#
98 41.1 40.5 60.7





#40

Benzene

Concen: 3.233 ug/l

RT: 8.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

Instrument :

MSVOA_Y

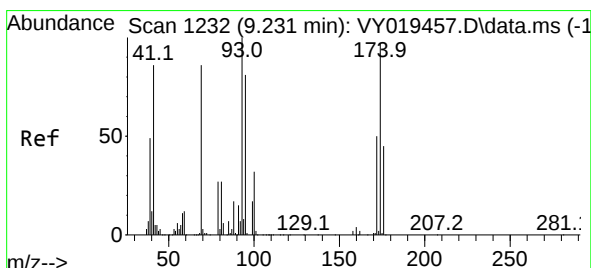
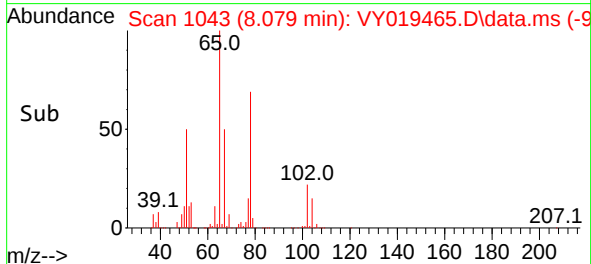
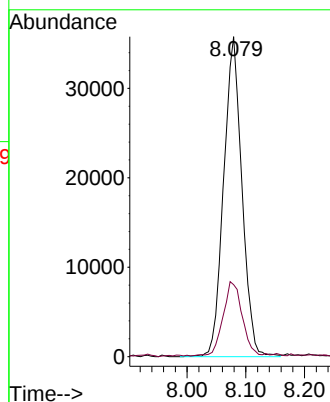
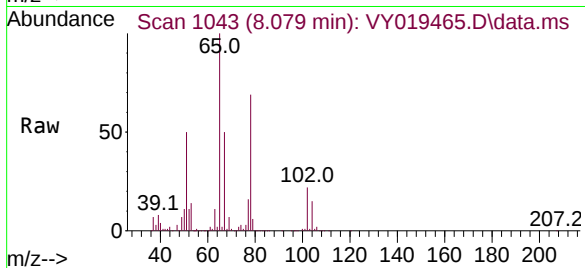
ClientSampleId :

Tgt Ion: 78 Resp: 77374

Ion Ratio Lower Upper

78 100

77 22.1 19.5 29.3



#49

1,4-Dioxane

Concen: 1.168 ug/l

RT: 9.244 min Scan# 1234

Delta R.T. 0.013 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

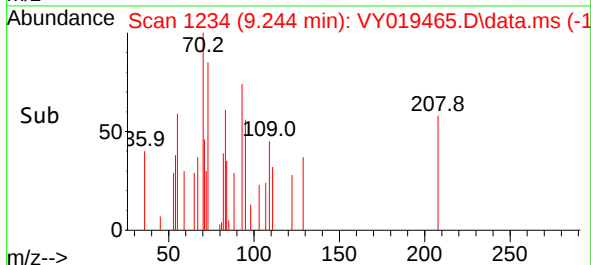
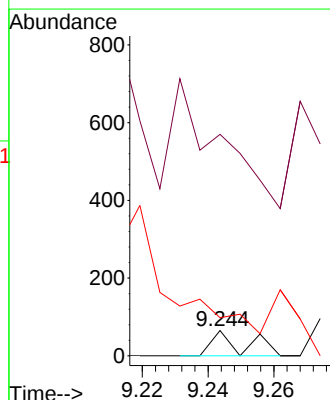
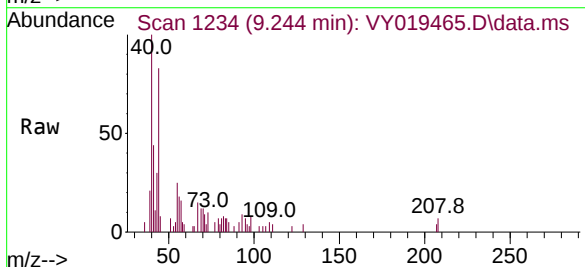
Tgt Ion: 88 Resp: 44

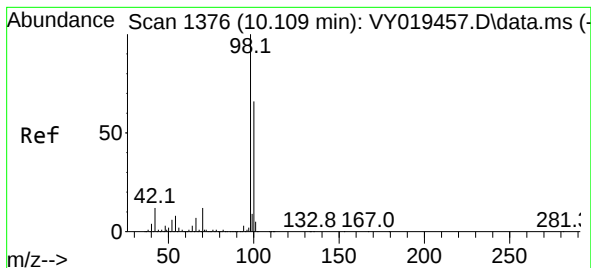
Ion Ratio Lower Upper

88 100

43 740.9 0.0 0.0#

58 0.0 49.3 73.9#





#50

Toluene-d8

Concen: 55.639 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

Instrument :

MSVOA_Y

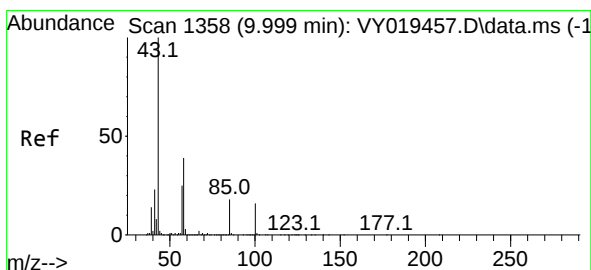
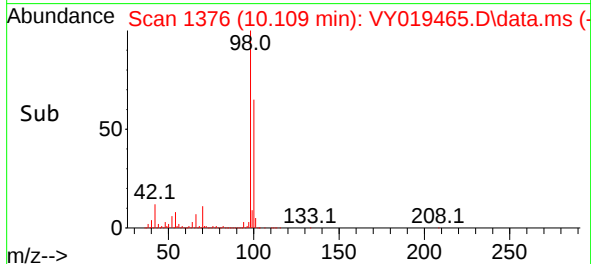
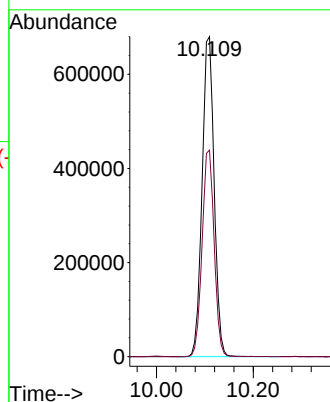
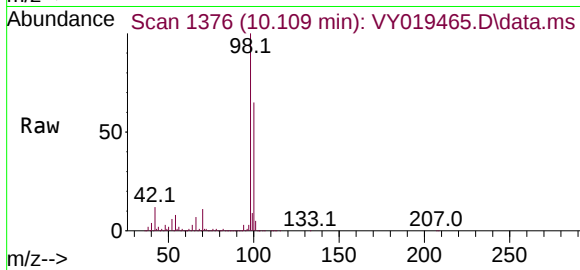
ClientSampleId :

Tgt Ion: 98 Resp: 1175183

Ion Ratio Lower Upper

98 100

100 64.7 52.0 78.0



#51

4-Methyl-2-Pentanone

Concen: 2.973 ug/l

RT: 10.000 min Scan# 1358

Delta R.T. 0.000 min

Lab File: VY019465.D

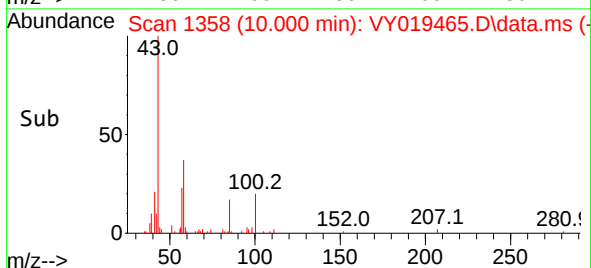
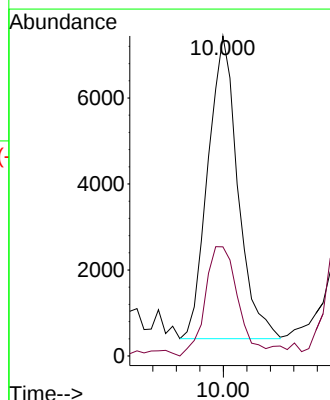
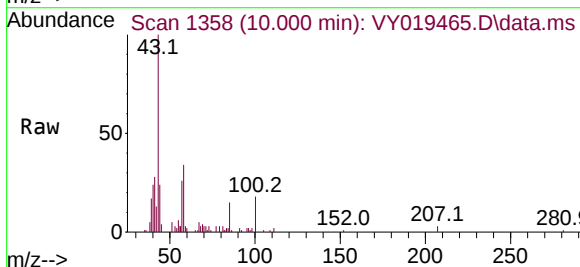
Acq: 09 Sep 2024 15:10

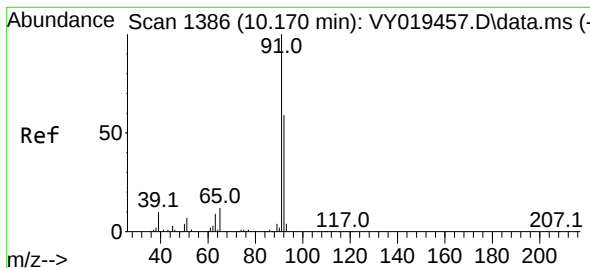
Tgt Ion: 43 Resp: 12509

Ion Ratio Lower Upper

43 100

58 39.7 35.7 53.5





#52

Toluene

Concen: 6.983 ug/l

RT: 10.170 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

Instrument :

MSVOA_Y

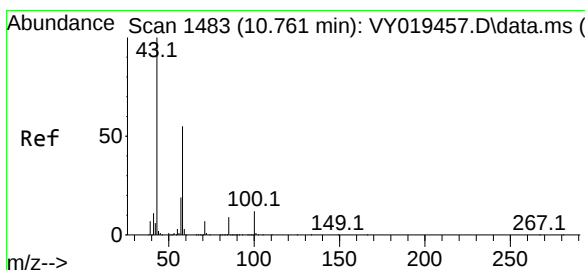
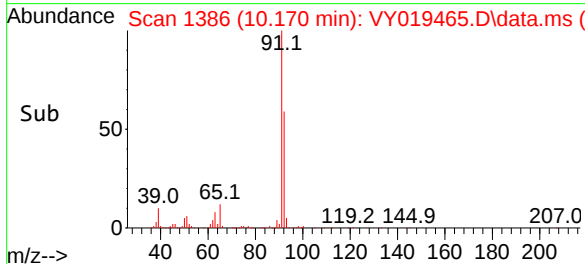
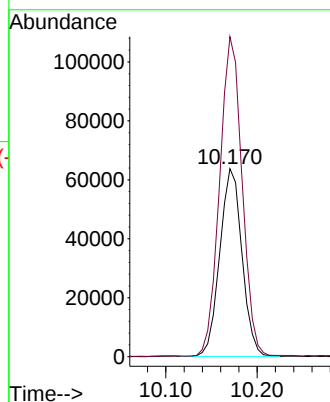
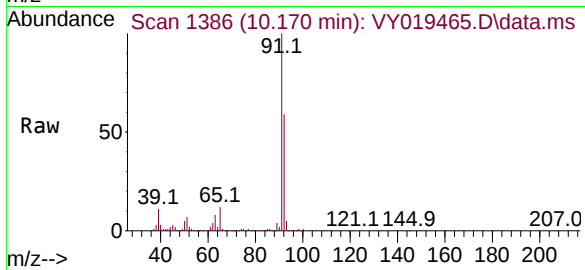
ClientSampleId :

Tgt Ion: 92 Resp: 107490

Ion Ratio Lower Upper

92 100

91 172.4 139.0 208.6



#59

2-Hexanone

Concen: 2.619 ug/l

RT: 10.731 min Scan# 1478

Delta R.T. -0.030 min

Lab File: VY019465.D

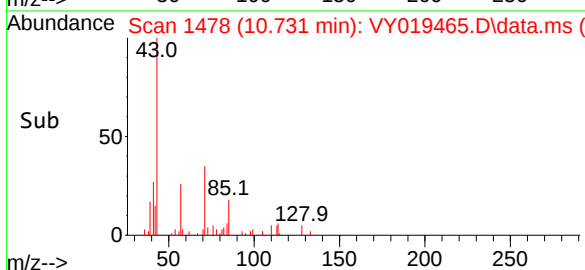
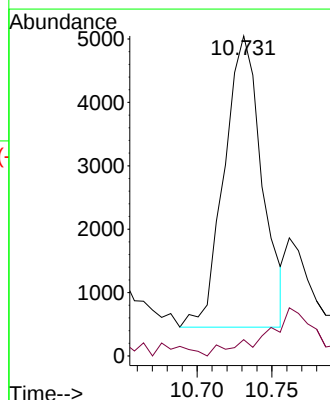
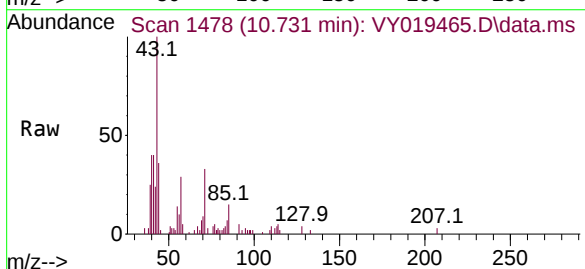
Acq: 09 Sep 2024 15:10

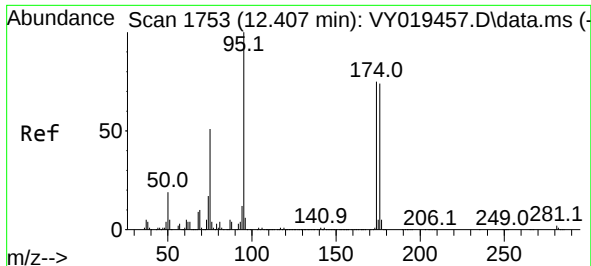
Tgt Ion: 43 Resp: 8079

Ion Ratio Lower Upper

43 100

58 0.0 31.4 94.0#

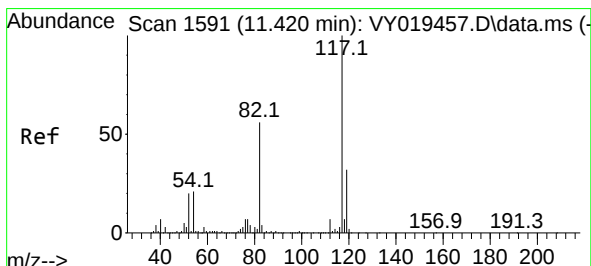
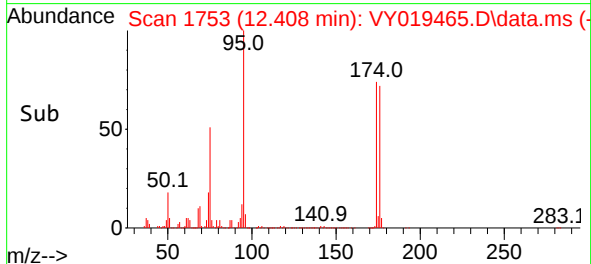
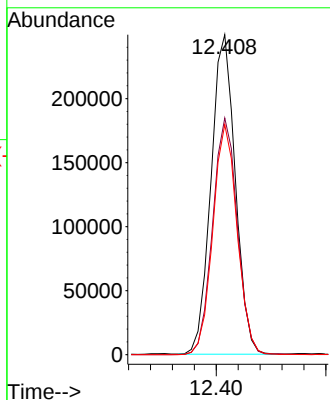
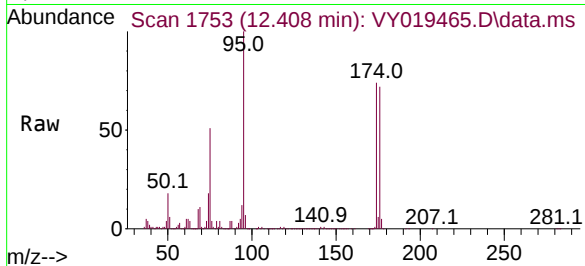




#62
4-Bromofluorobenzene
Concen: 47.315 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY019465.D
Acq: 09 Sep 2024 15:10

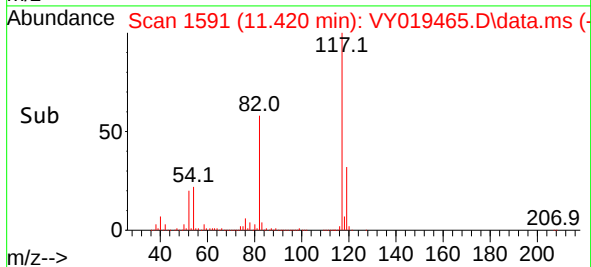
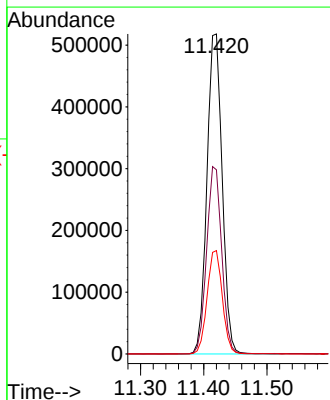
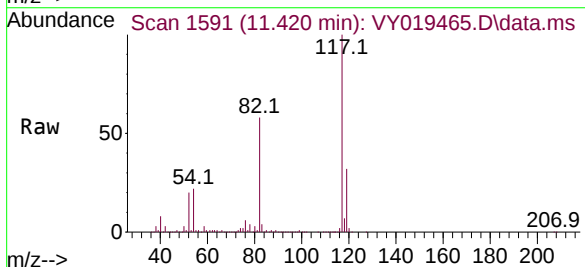
Instrument :
MSVOA_Y
ClientSampleId :

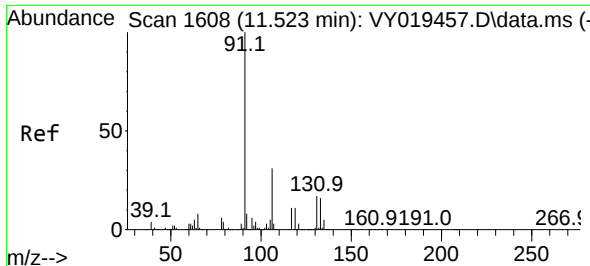
Tgt Ion: 95 Resp: 384265
Ion Ratio Lower Upper
95 100
174 75.1 0.0 175.6
176 72.0 0.0 171.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY019465.D
Acq: 09 Sep 2024 15:10

Tgt Ion: 117 Resp: 868025
Ion Ratio Lower Upper
117 100
82 57.5 42.4 63.6
119 32.3 25.9 38.9





#67

Ethyl Benzene

Concen: 1.271 ug/l

RT: 11.518 min Scan# 1607

Delta R.T. -0.006 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

Instrument :

MSVOA_Y

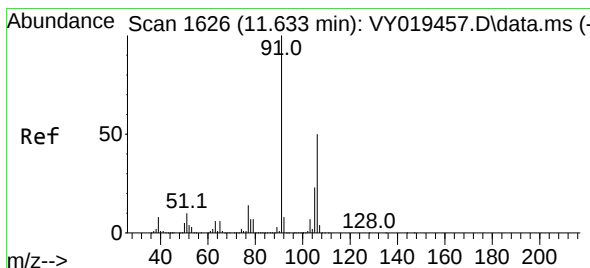
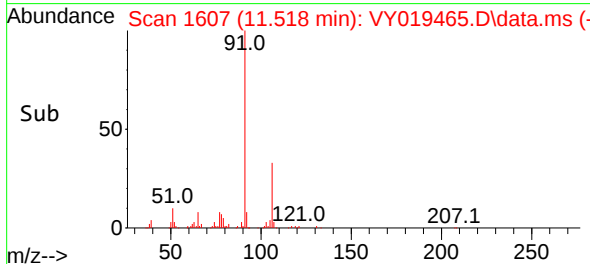
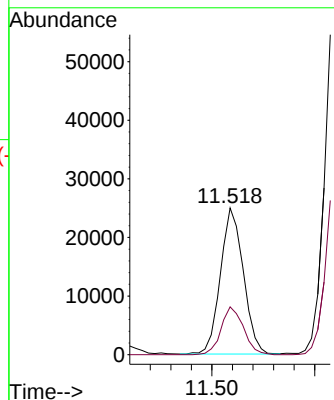
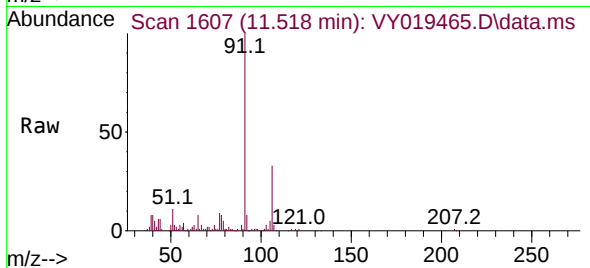
ClientSampleId :

Tgt Ion: 91 Resp: 38559

Ion Ratio Lower Upper

91 100

106 32.8 24.5 36.7



#68

m/p-Xylenes

Concen: 6.191 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. -0.006 min

Lab File: VY019465.D

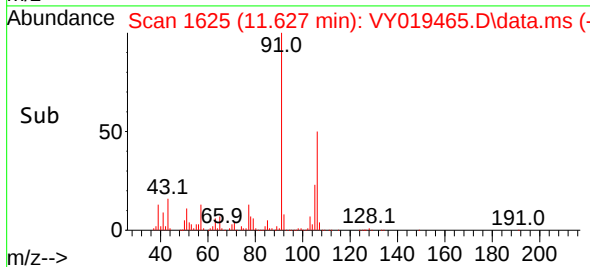
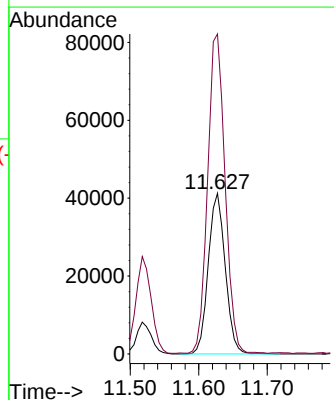
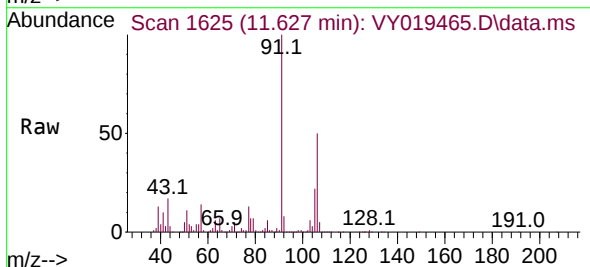
Acq: 09 Sep 2024 15:10

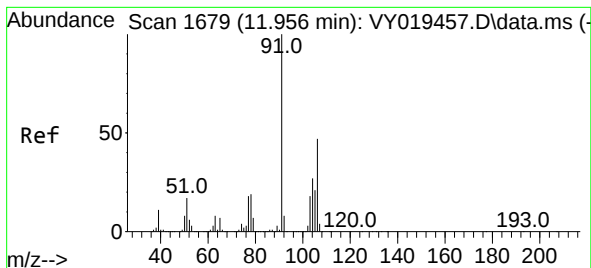
Tgt Ion: 106 Resp: 71017

Ion Ratio Lower Upper

106 100

91 204.1 156.0 234.0





#69

o-Xylene

Concen: 3.052 ug/l

RT: 11.957 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

Instrument :

MSVOA_Y

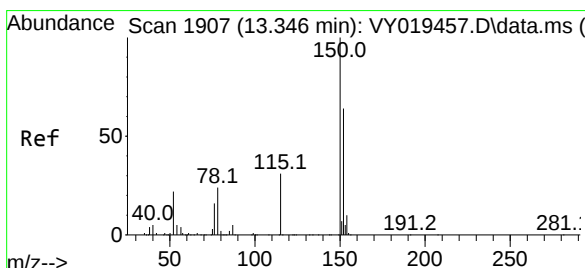
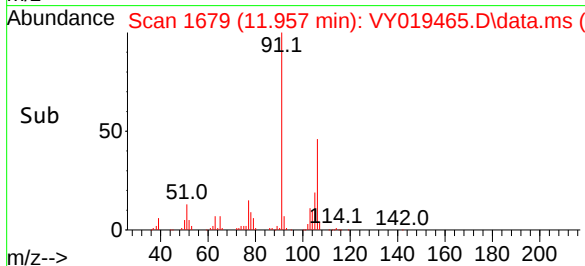
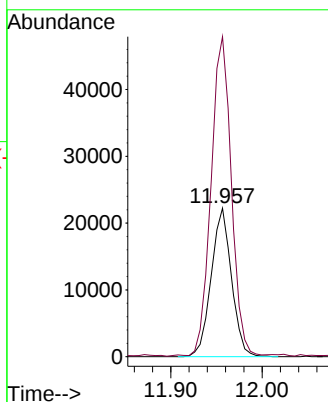
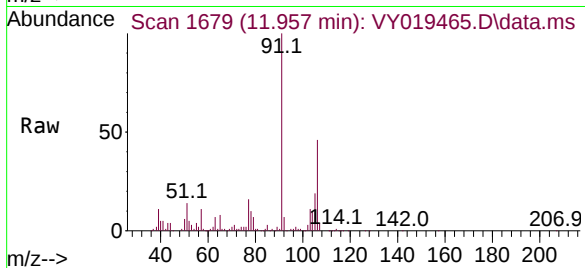
ClientSampleId :

Tgt Ion:106 Resp: 34242

Ion Ratio Lower Upper

106 100

91 215.8 103.6 310.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

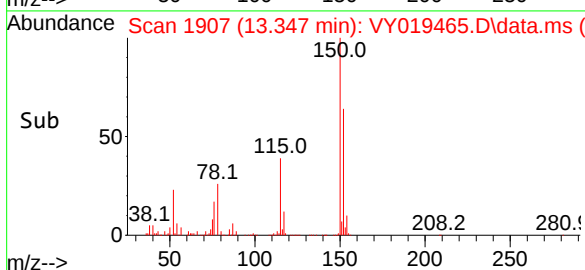
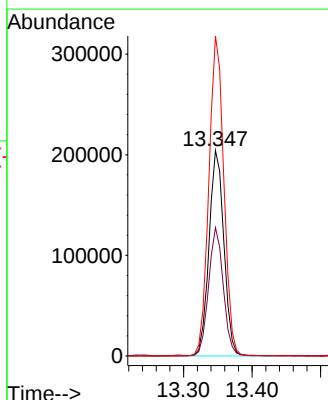
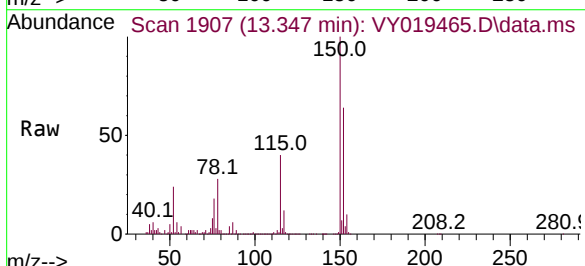
Tgt Ion:152 Resp: 309210

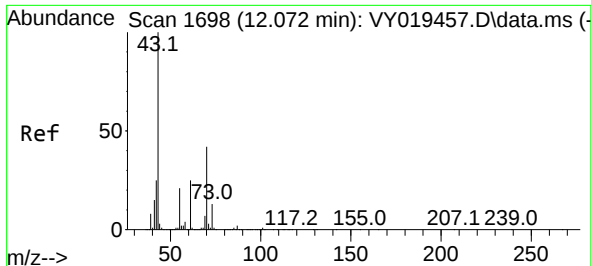
Ion Ratio Lower Upper

152 100

115 61.4 28.2 84.7

150 156.3 0.0 345.6

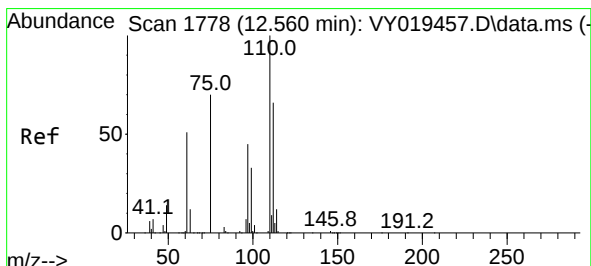
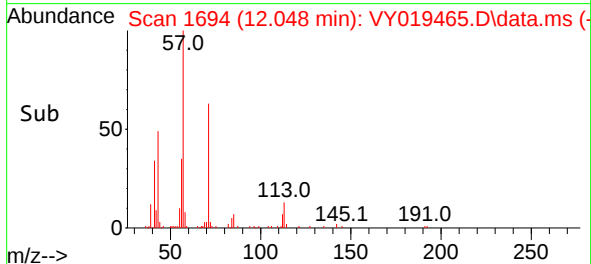
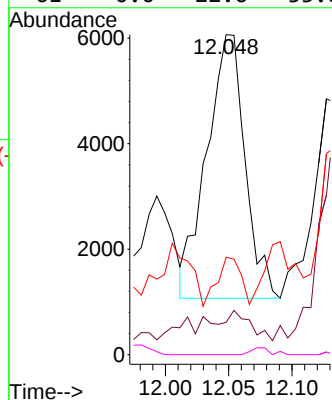
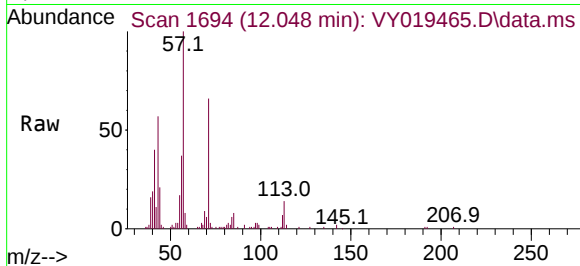




#74
N-amy1 acetate
Concen: 1.729 ug/l
RT: 12.048 min Scan# 1753
Delta R.T. -0.024 min
Lab File: VY019465.D
Acq: 09 Sep 2024 15:10

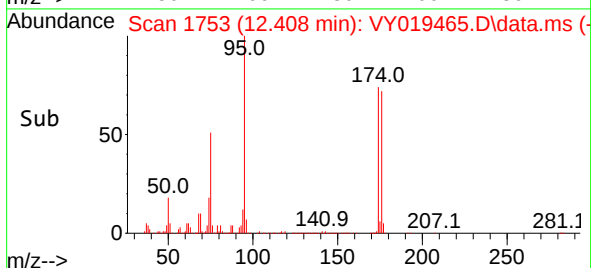
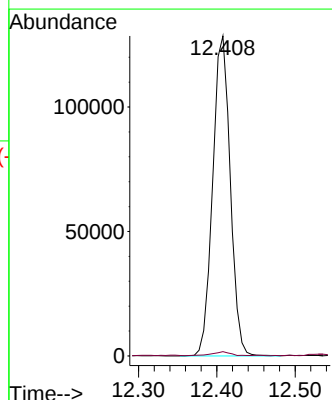
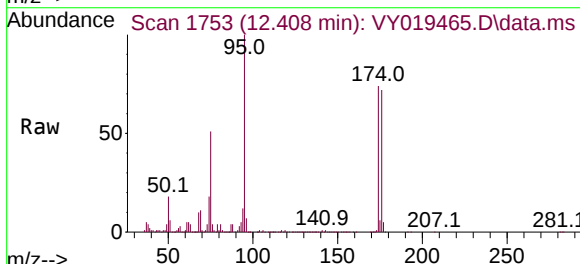
Instrument :
MSVOA_Y
ClientSampleId :

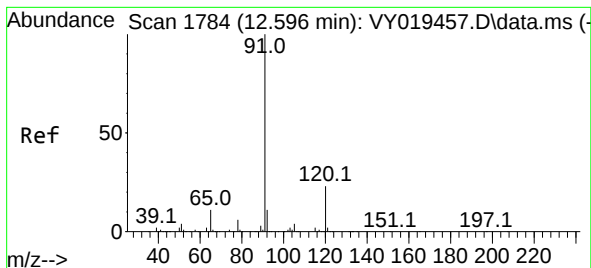
Tgt Ion: 43 Resp: 10547
Ion Ratio Lower Upper
43 100
70 10.9 41.4 62.2#
55 11.4 23.3 34.9#
61 0.0 22.6 33.8#



#76
1,2,3-Trichloropropane
Concen: 69.090 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY019465.D
Acq: 09 Sep 2024 15:10

Tgt Ion: 75 Resp: 200236
Ion Ratio Lower Upper
75 100
77 1.3 0.0 0.0#





#78

n-propylbenzene

Concen: 1.279 ug/l

RT: 12.597 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

Instrument :

MSVOA_Y

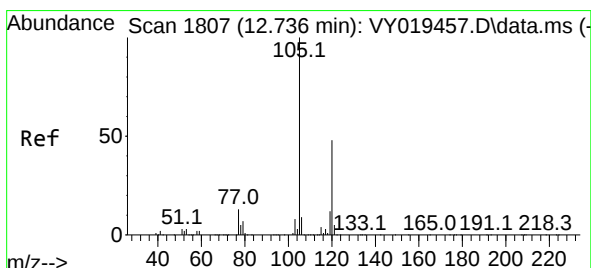
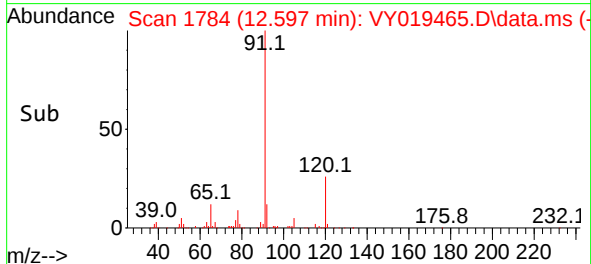
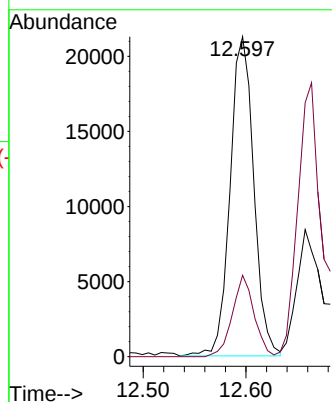
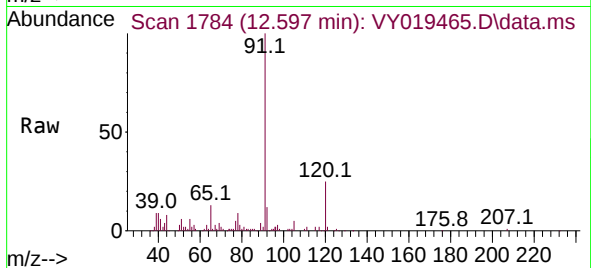
ClientSampleId :

Tgt Ion: 91 Resp: 33997

Ion Ratio Lower Upper

91 100

120 23.4 11.5 34.4



#80

1,3,5-Trimethylbenzene

Concen: 2.956 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY019465.D

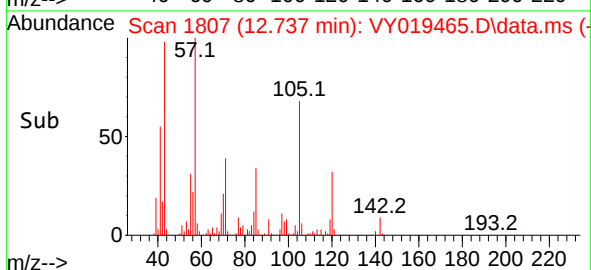
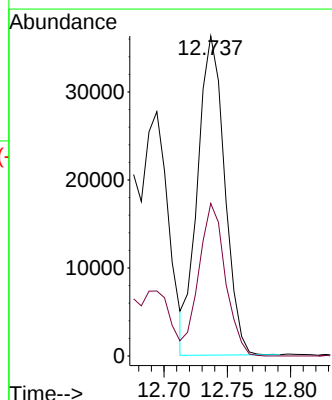
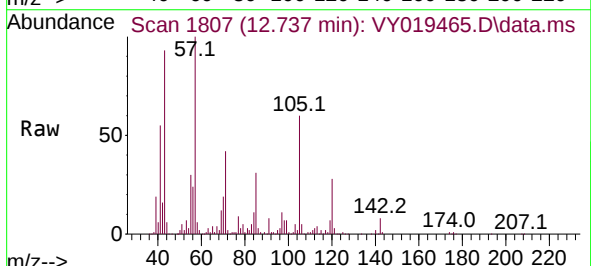
Acq: 09 Sep 2024 15:10

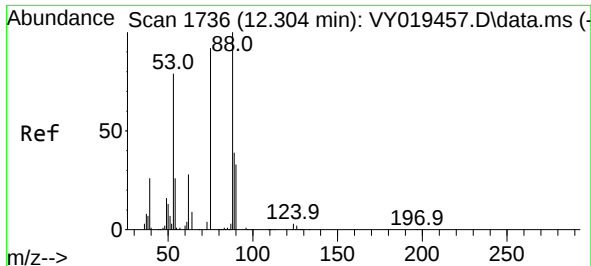
Tgt Ion: 105 Resp: 53915

Ion Ratio Lower Upper

105 100

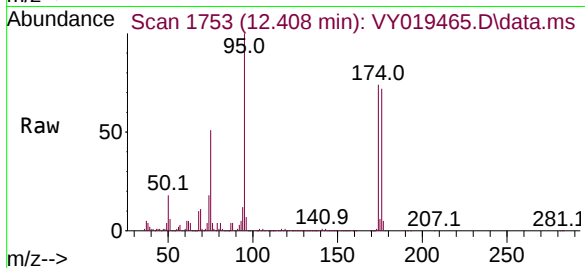
120 47.0 25.1 75.2



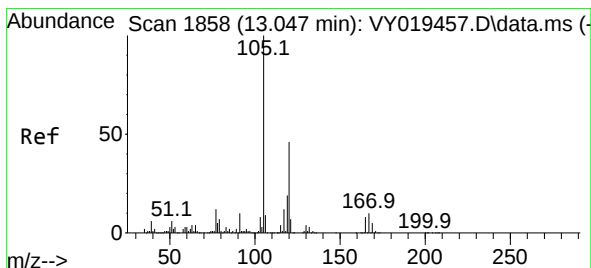
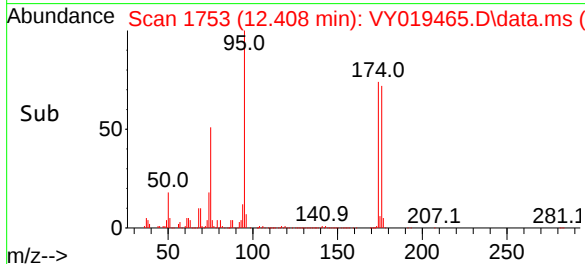
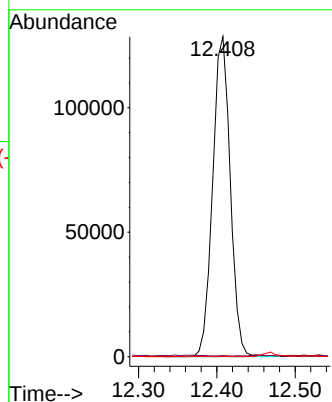


#81
trans-1,4-Dichloro-2-butene
Concen: 132.633 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY019465.D
Acq: 09 Sep 2024 15:10

Instrument :
MSVOA_Y
ClientSampleId :

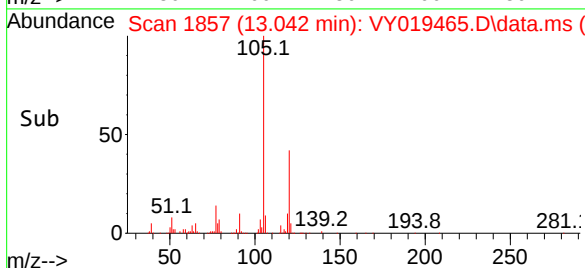
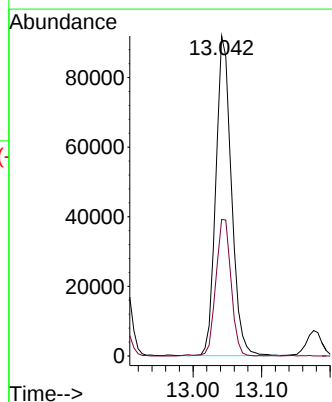
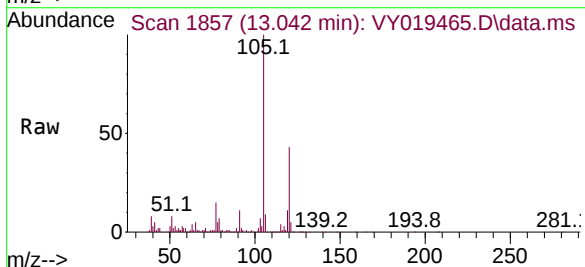


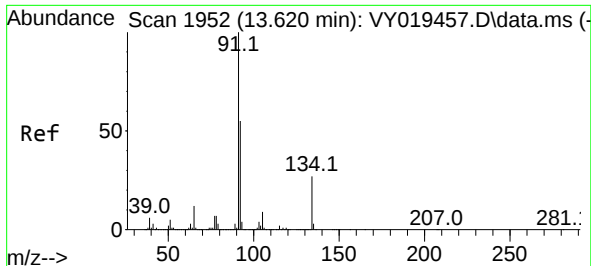
Tgt Ion: 75 Resp: 200236
Ion Ratio Lower Upper
75 100
53 0.1 66.8 100.2#
89 0.0 35.8 53.6#



#84
1,2,4-Trimethylbenzene
Concen: 8.035 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.006 min
Lab File: VY019465.D
Acq: 09 Sep 2024 15:10

Tgt Ion:105 Resp: 145046
Ion Ratio Lower Upper
105 100
120 41.5 23.2 69.6





#89

n-Butylbenzene

Concen: 1.291 ug/l

RT: 13.621 min Scan# 1952

Delta R.T. 0.000 min

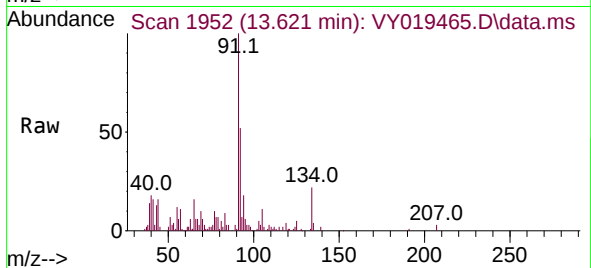
Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

Instrument :

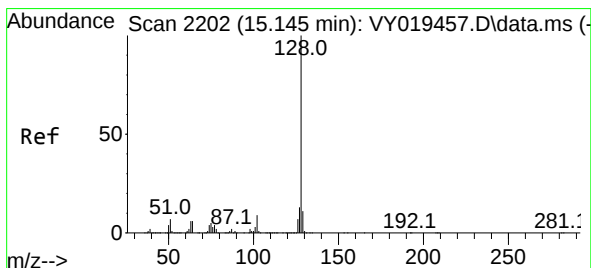
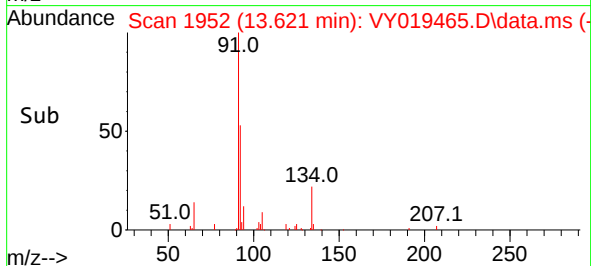
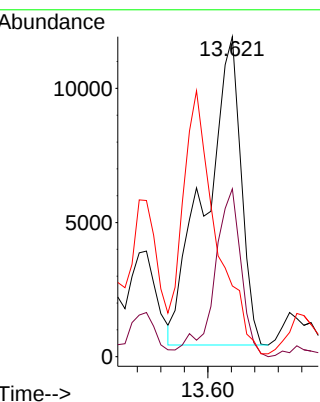
MSVOA_Y

ClientSampleId :



Tgt Ion: 91 Resp: 24227

Ion	Ratio	Lower	Upper
91	100		
92	40.7	26.6	79.7
134	0.0	12.9	38.7



#95

Naphthalene

Concen: 32.896 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. 0.000 min

Lab File: VY019465.D

Acq: 09 Sep 2024 15:10

Tgt Ion: 128 Resp: 345648

Ion	Ratio	Lower	Upper
128	100		
127	12.8	10.6	16.0
129	10.4	8.6	13.0

