

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032323\
 Data File : VY013065.D
 Acq On : 23 Mar 2023 17:12
 Operator : KP/MD
 Sample : 02049-01
 Misc : 5.08g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OK-02-032323

Quant Time: Mar 24 05:05:08 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030223S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 03 01:13:13 2023
 Response via : Initial Calibration

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

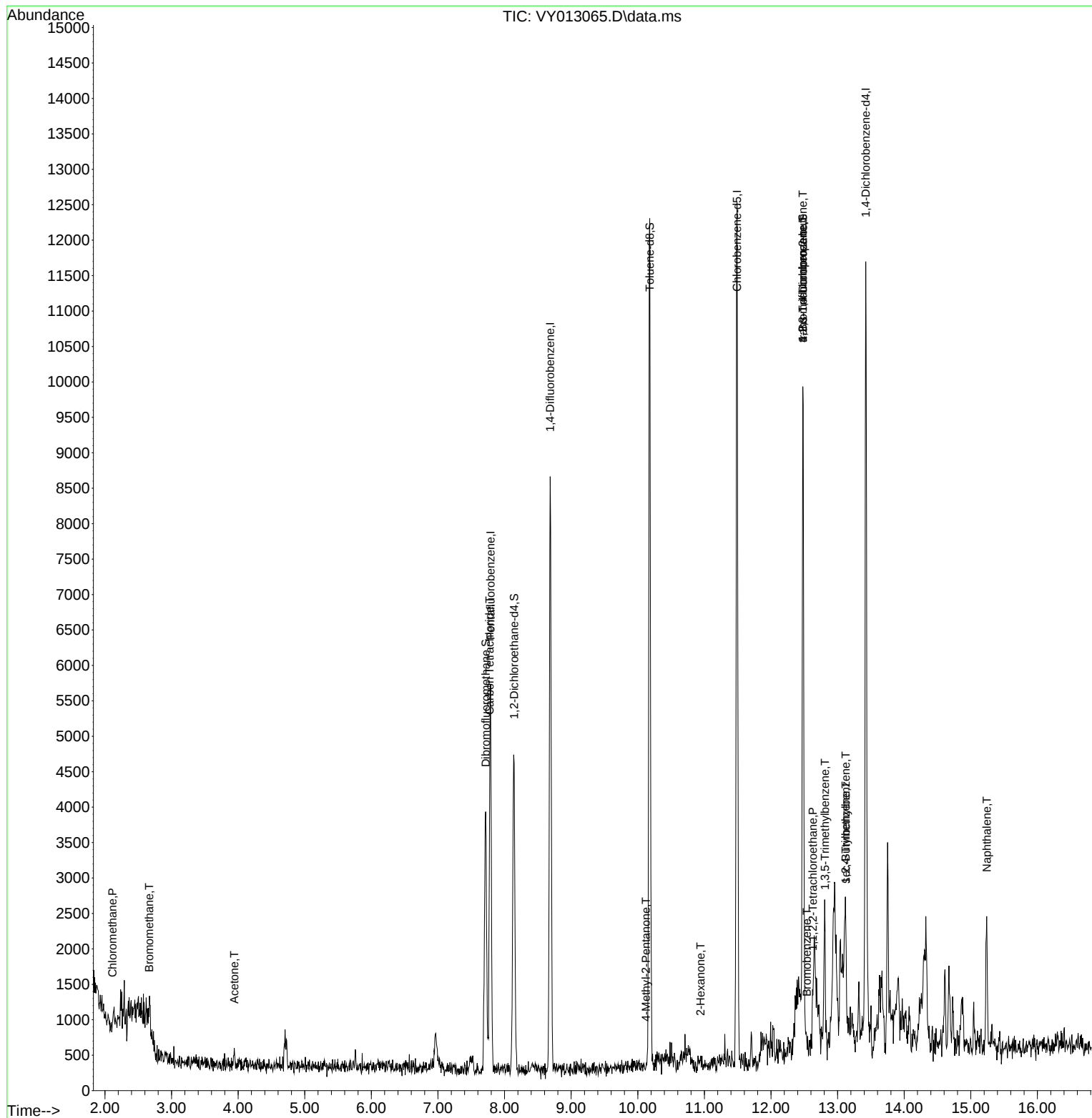
Internal Standards						
1) Pentafluorobenzene	7.789	168	4273	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.685	114	6539	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	6627	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	2758	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	3805	89.687	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 179.380%#	
35) Dibromofluoromethane	7.716	113	2624	66.493	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 132.980%	
50) Toluene-d8	10.179	98	7587	52.590	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 105.180%	
62) 4-Bromofluorobenzene	12.477	95	2662	54.668	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 109.340%	
Target Compounds						
						Qvalue
3) Chloromethane	2.113	50	143	2.840	ug/l	# 42
5) Bromomethane	2.662	94	57	2.032	ug/l	93
16) Acetone	3.942	43	197	11.830	ug/l	# 44
20) Methylene Chloride	4.698	84	137	Below Cal	#	74
38) Carbon Tetrachloride	7.777	117	439	6.428	ug/l	# 12
51) 4-Methyl-2-Pentanone	10.124	43	45	1.116	ug/l	# 38
59) 2-Hexanone	10.941	43	45	1.535	ug/l	# 26
75) 1,1,2,2-Tetrachloroethane	12.630	83	75	1.707	ug/l	# 26
76) 1,2,3-Trichloropropane	12.477	75	1456	44.208	ug/l	# 100
77) Bromobenzene	12.538	156	86	1.811	ug/l	# 1
80) 1,3,5-Trimethylbenzene	12.813	105	410	2.542	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.477	75	1456	91.601	ug/l	# 13
84) 1,2,4-Trimethylbenzene	13.123	105	691	4.381	ug/l	97
85) sec-Butylbenzene	13.123	105	691	3.253	ug/l	# 56
95) Naphthalene	15.239	128	1768	17.309	ug/l	96

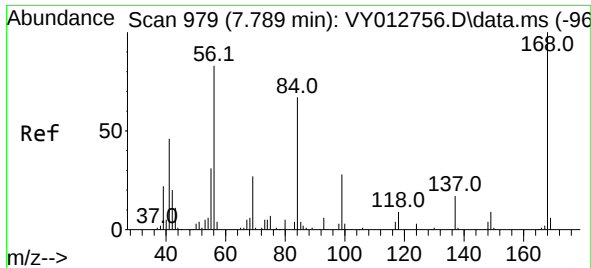
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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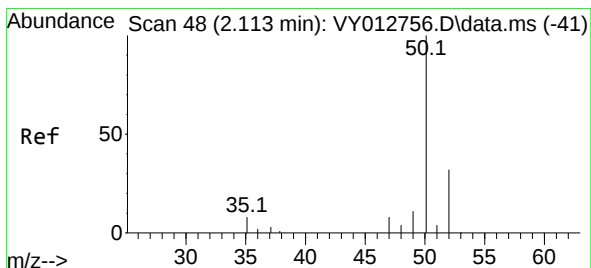
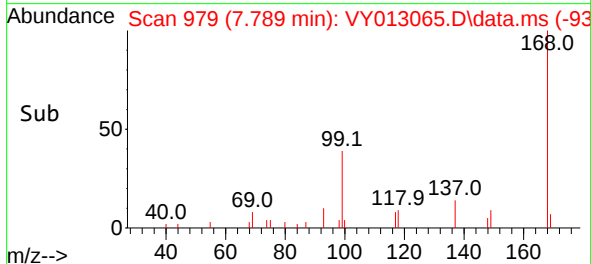
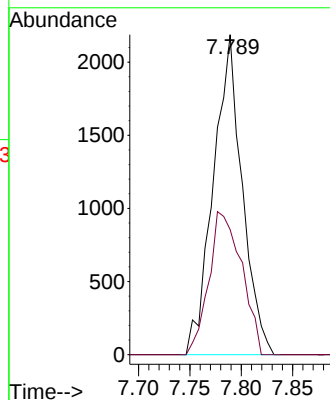
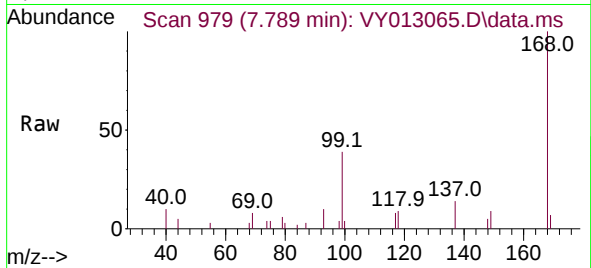




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

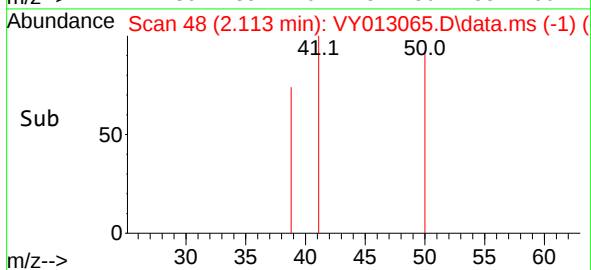
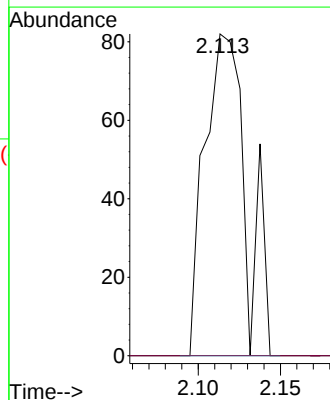
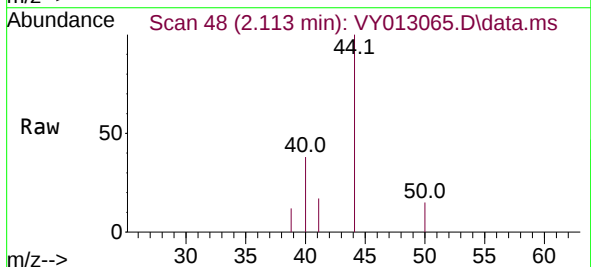
Instrument :
MSVOA_Y
ClientSampleId :
OK-02-032323

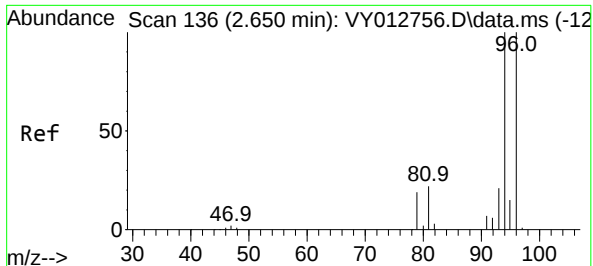
Tgt Ion:168 Resp: 4273
Ion Ratio Lower Upper
168 100
99 39.1 41.7 62.5#



#3
Chloromethane
Concen: 2.840 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.000 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

Tgt Ion: 50 Resp: 143
Ion Ratio Lower Upper
50 100
52 0.0 26.0 39.0#

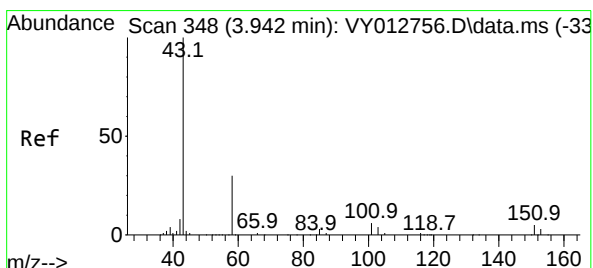
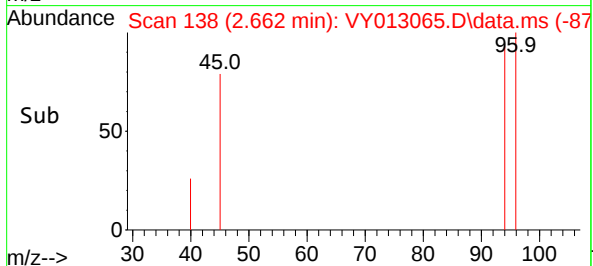
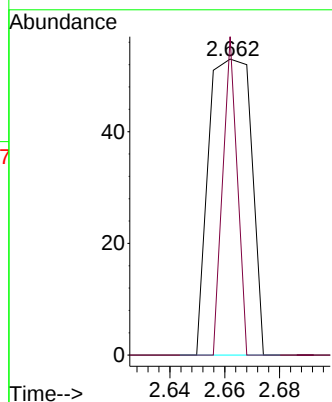
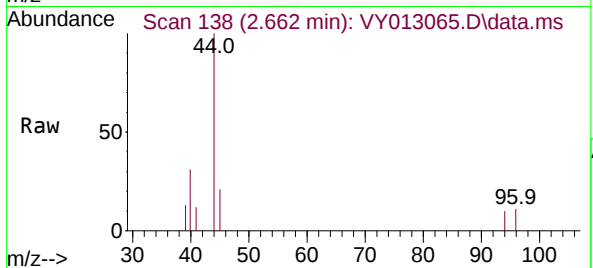




#5
Bromomethane
Concen: 2.032 ug/l
RT: 2.662 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

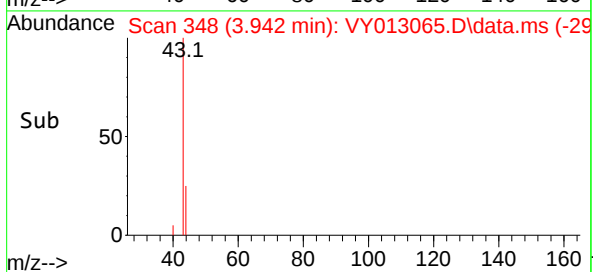
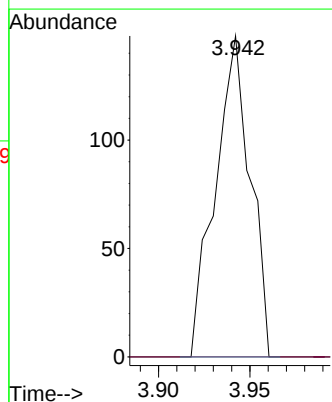
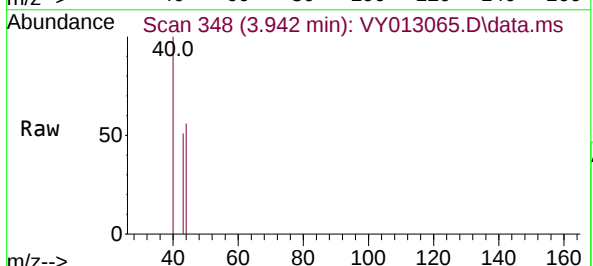
Instrument :
MSVOA_Y
ClientSampleId :
OK-02-032323

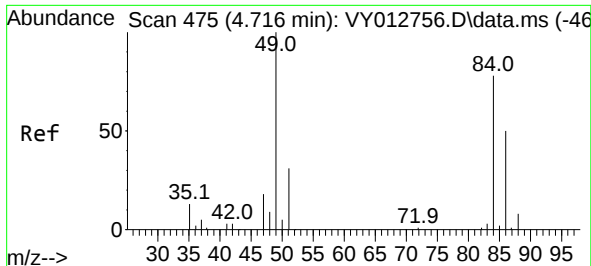
Tgt Ion: 94 Resp: 57
Ion Ratio Lower Upper
94 100
96 107.5 80.3 120.5



#16
Acetone
Concen: 11.830 ug/l
RT: 3.942 min Scan# 348
Delta R.T. 0.000 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

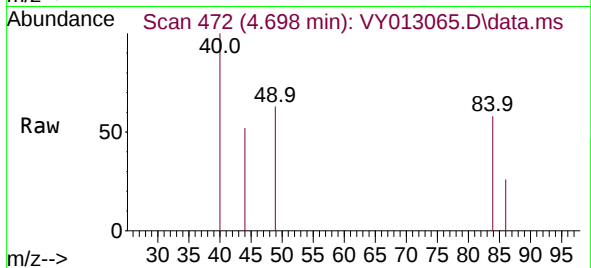
Tgt Ion: 43 Resp: 197
Ion Ratio Lower Upper
43 100
58 0.0 24.2 36.2#



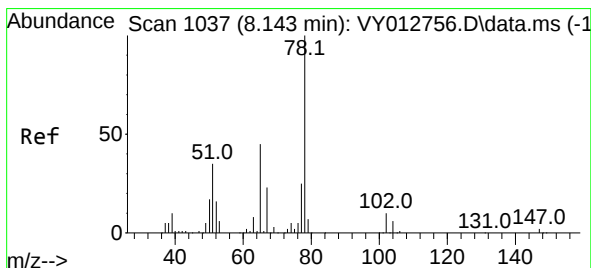
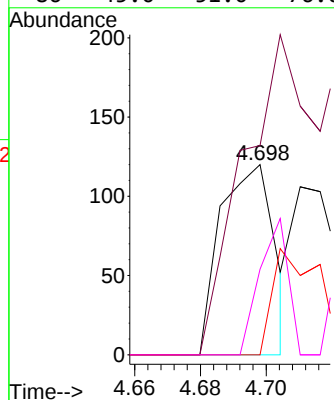
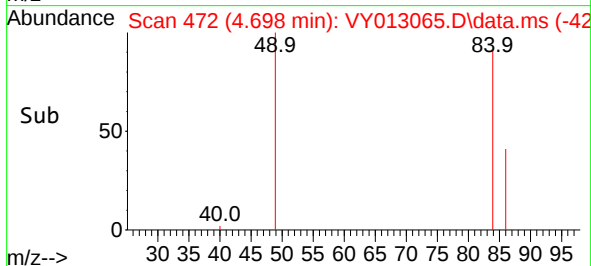


#20
Methylene Chloride
Concen: Below Cal
RT: 4.698 min Scan# 41
Delta R.T. -0.018 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

Instrument :
MSVOA_Y
ClientSampleId :
OK-02-032323

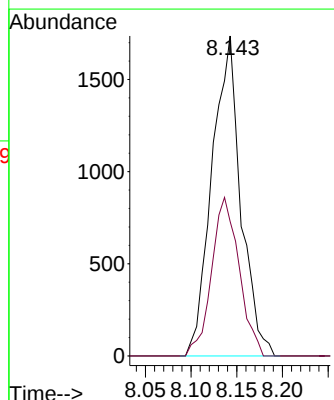
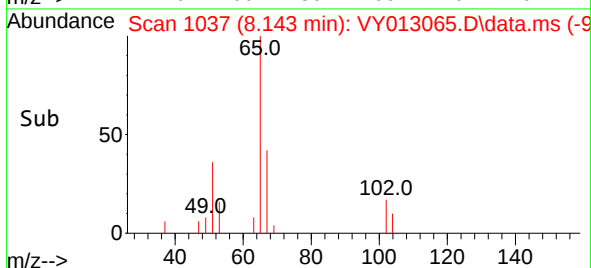
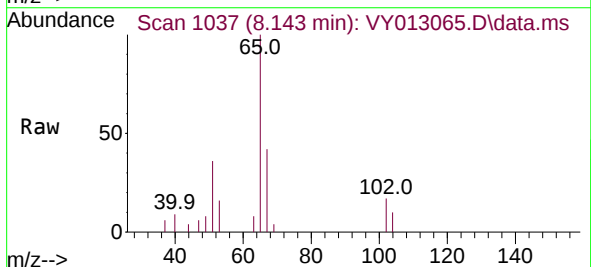


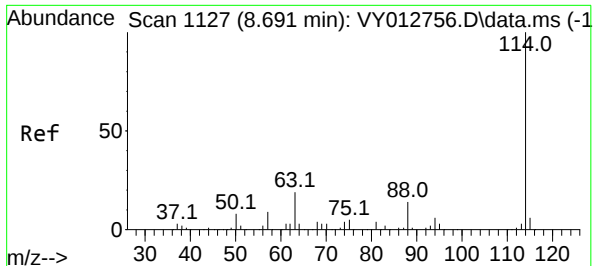
Tgt Ion: 84 Resp: 137
Ion Ratio Lower Upper
84 100
49 110.0 102.6 154.0
51 0.0 31.9 47.9#
86 45.0 51.0 76.6#



#33
1,2-Dichloroethane-d4
Concen: 89.687 ug/l
RT: 8.143 min Scan# 1037
Delta R.T. -0.000 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

Tgt Ion: 65 Resp: 3805
Ion Ratio Lower Upper
65 100
67 47.3 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY013065.D

Acq: 23 Mar 2023 17:12

Instrument :

MSVOA_Y

ClientSampleId :

OK-02-032323

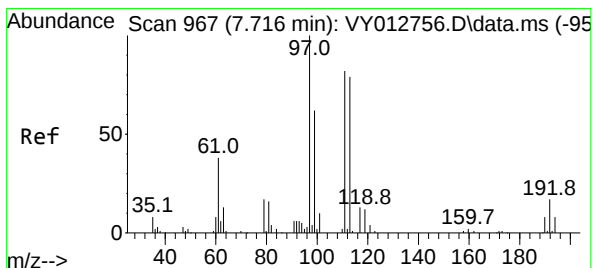
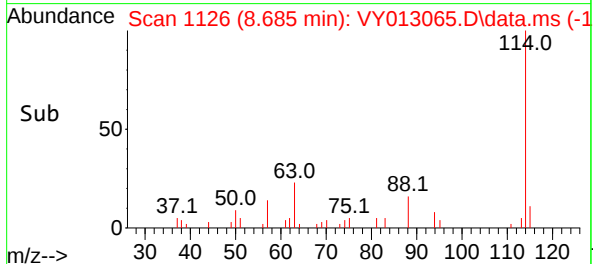
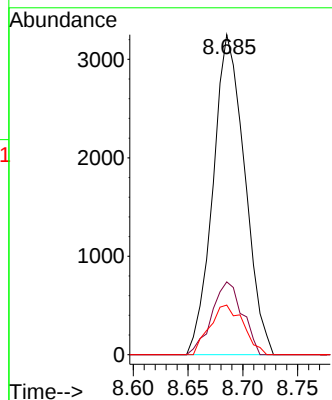
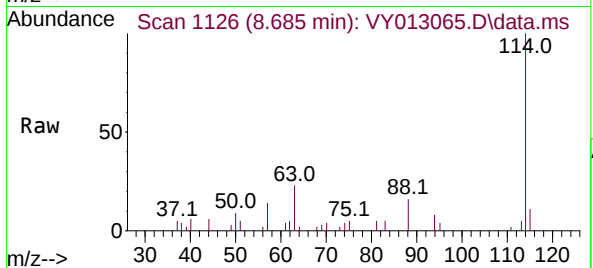
Tgt Ion:114 Resp: 6539

Ion Ratio Lower Upper

114 100

63 22.8 0.0 37.4

88 15.5 0.0 28.6



#35

Dibromofluoromethane

Concen: 66.493 ug/l

RT: 7.716 min Scan# 967

Delta R.T. 0.000 min

Lab File: VY013065.D

Acq: 23 Mar 2023 17:12

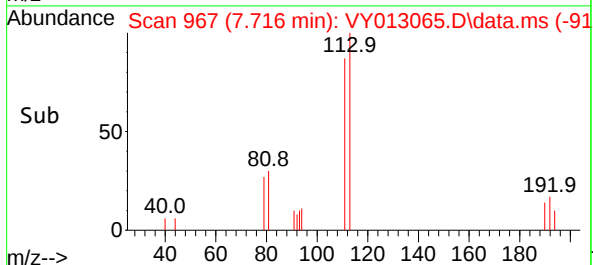
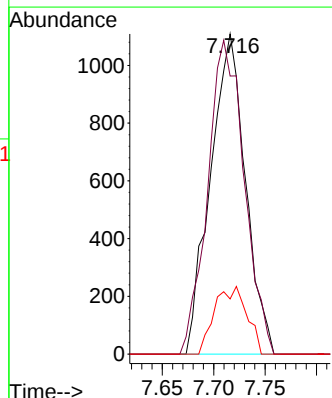
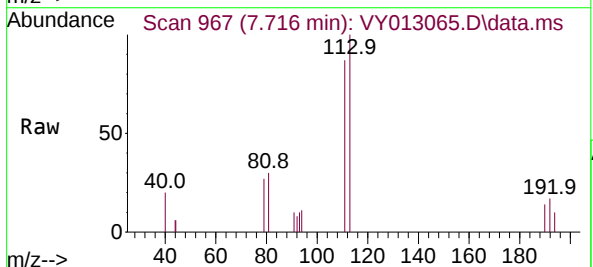
Tgt Ion:113 Resp: 2624

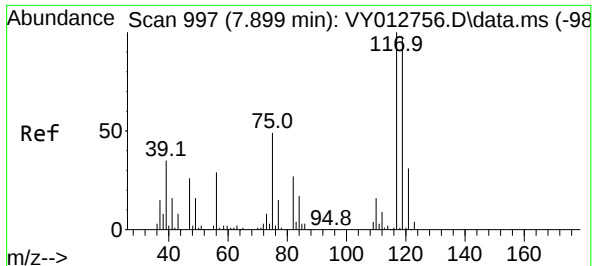
Ion Ratio Lower Upper

113 100

111 102.4 82.2 123.2

192 19.5 16.8 25.2

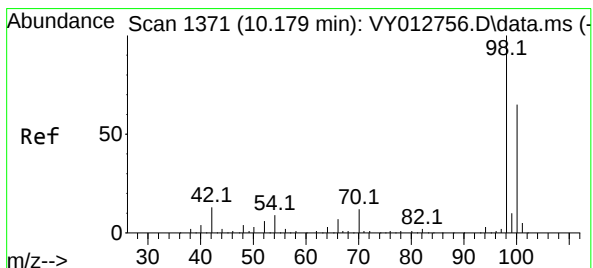
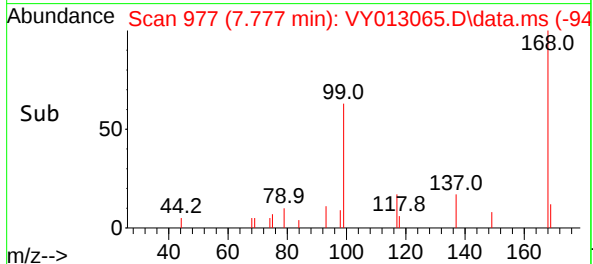
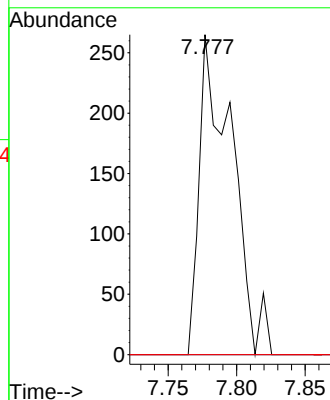
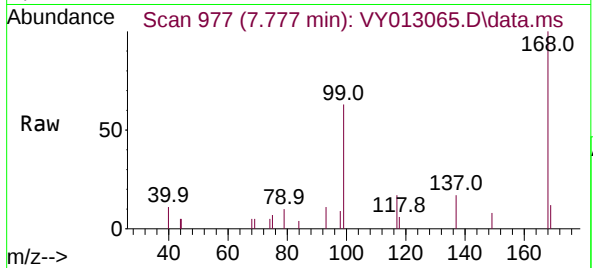




#38
Carbon Tetrachloride
Concen: 6.428 ug/l
RT: 7.777 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

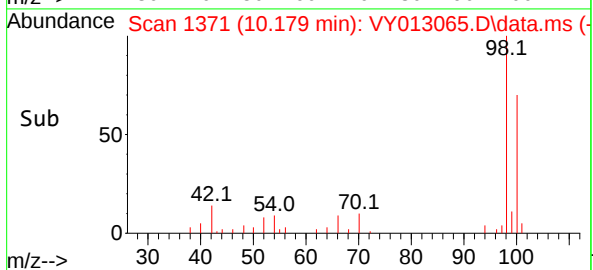
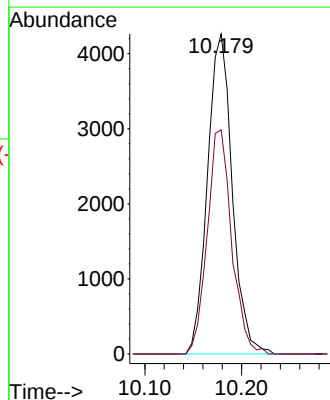
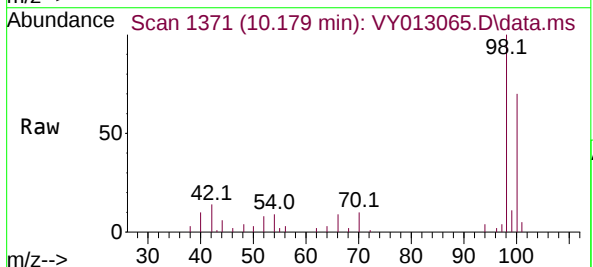
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OK-02-032323

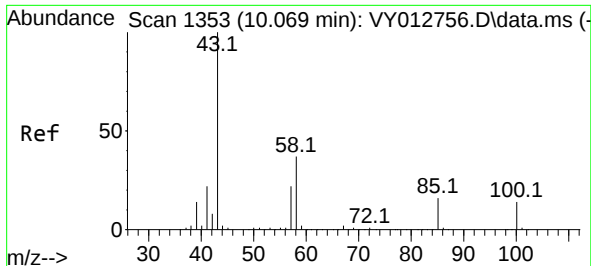
Tgt Ion:117 Resp: 439
Ion Ratio Lower Upper
117 100
119 0.0 77.2 115.8#
121 0.0 24.7 37.1#



#50
Toluene-d8
Concen: 52.590 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

Tgt Ion: 98 Resp: 7587
Ion Ratio Lower Upper
98 100
100 69.2 50.9 76.3





#51

4-Methyl-2-Pentanone

Concen: 1.116 ug/l

RT: 10.124 min Scan# 11

Delta R.T. 0.055 min

Lab File: VY013065.D

Acq: 23 Mar 2023 17:12

Instrument :

MSVOA_Y

ClientSampleId :

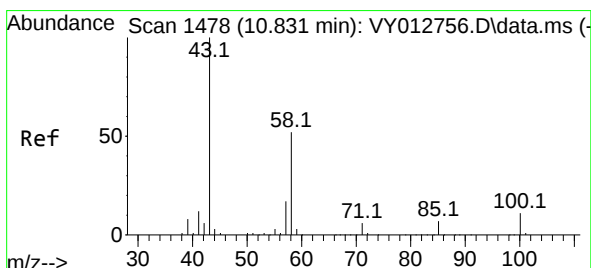
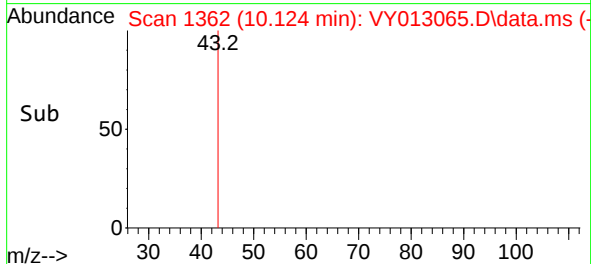
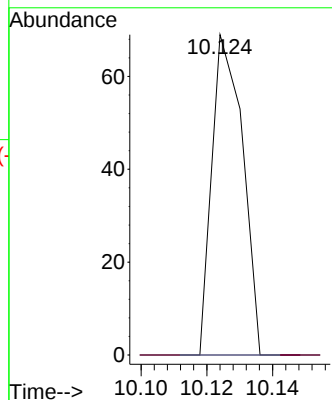
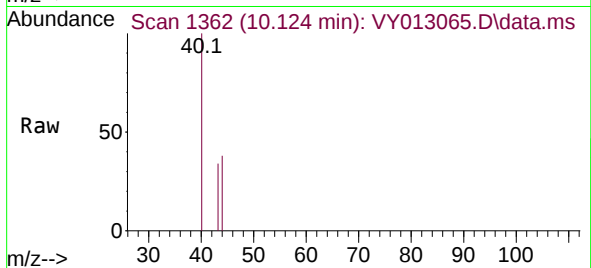
OK-02-032323

Tgt Ion: 43 Resp: 45

Ion Ratio Lower Upper

43 100

58 0.0 29.8 44.6#



#59

2-Hexanone

Concen: 1.535 ug/l

RT: 10.941 min Scan# 1496

Delta R.T. 0.110 min

Lab File: VY013065.D

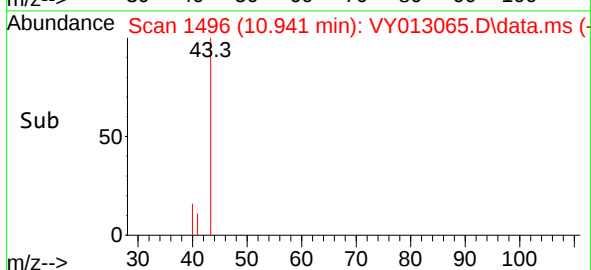
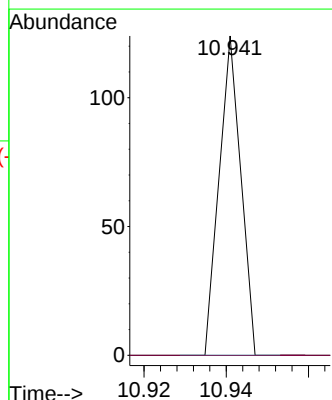
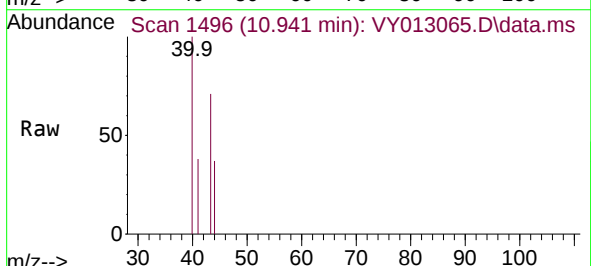
Acq: 23 Mar 2023 17:12

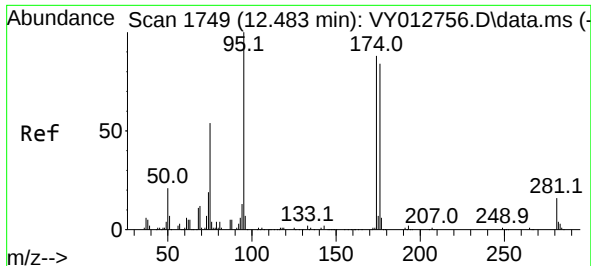
Tgt Ion: 43 Resp: 45

Ion Ratio Lower Upper

43 100

58 0.0 25.9 77.8#

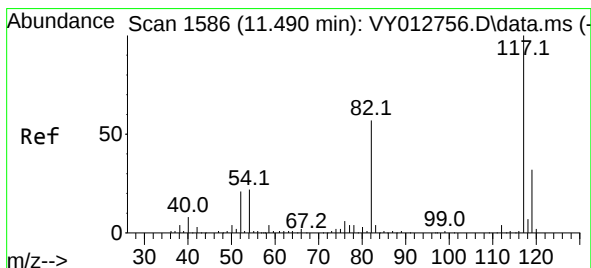
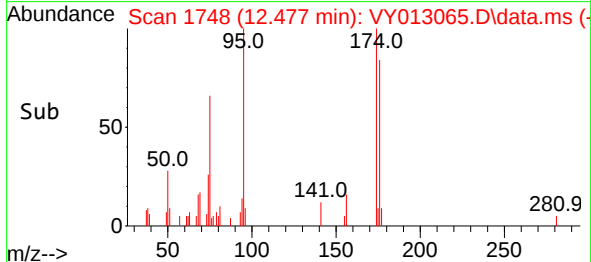
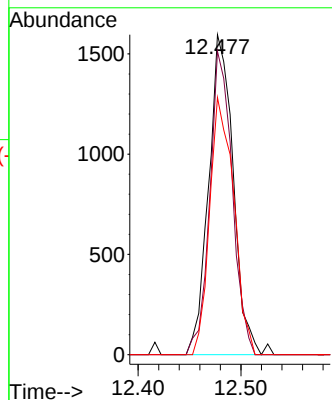
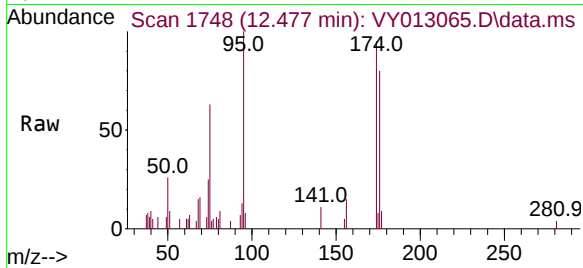




#62
4-Bromofluorobenzene
Concen: 54.668 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

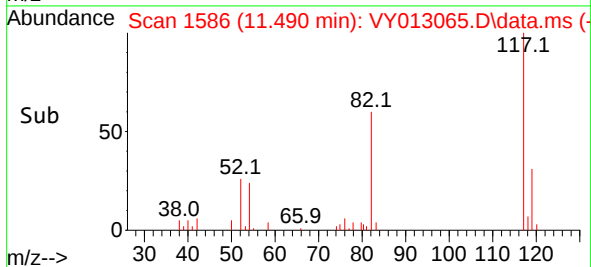
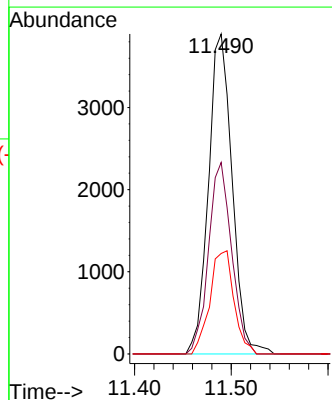
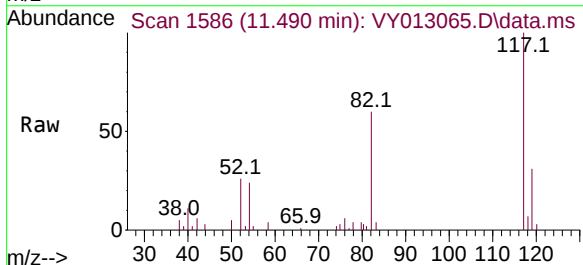
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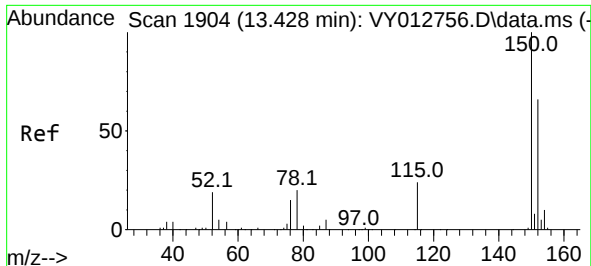
Tgt Ion:	95	Resp:	2662
Ion	Ratio	Lower	Upper
95	100		
174	86.3	0.0	176.6
176	78.3	0.0	170.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

Tgt Ion:	117	Resp:	6627
Ion	Ratio	Lower	Upper
117	100		
82	59.8	45.4	68.0
119	31.4	25.6	38.4

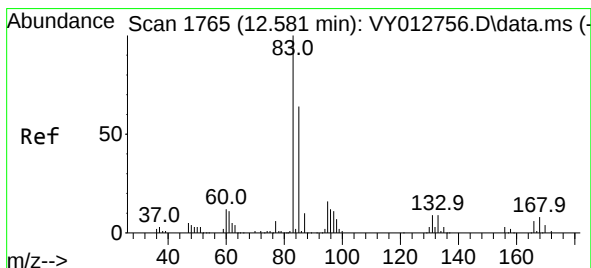
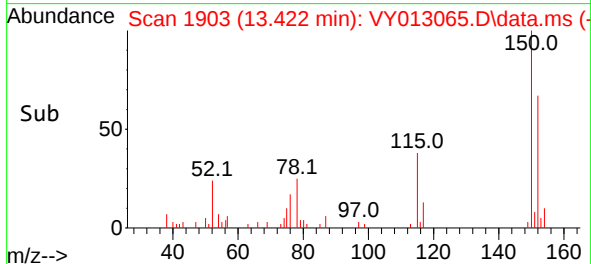
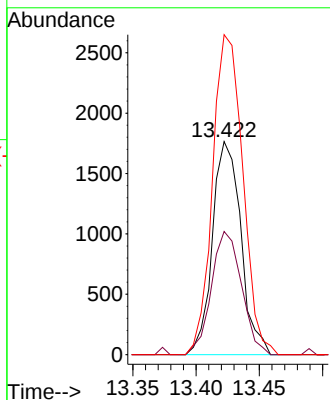
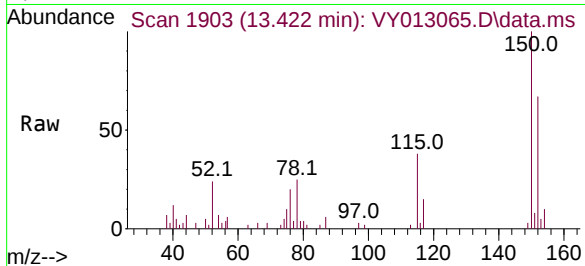




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.422 min Scan# 1904
 Delta R.T. -0.006 min
 Lab File: VY013065.D
 Acq: 23 Mar 2023 17:12

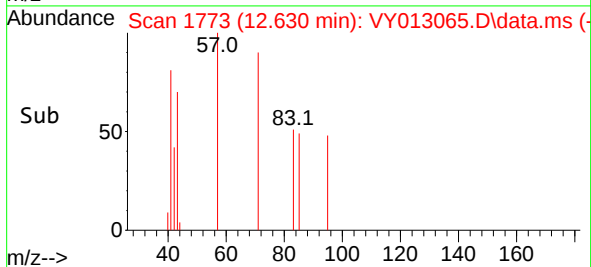
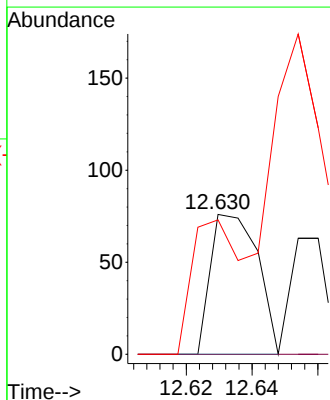
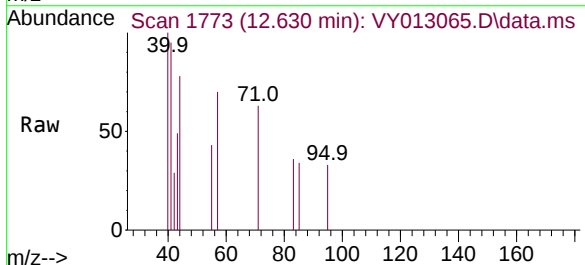
Instrument :
 MSVOA_Y
 ClientSampleId :
 OK-02-032323

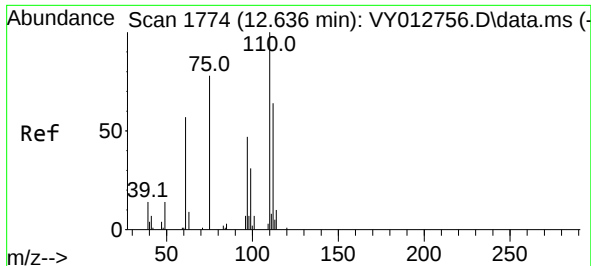
Tgt Ion:152 Resp: 2758
 Ion Ratio Lower Upper
 152 100
 115 61.2 27.1 81.3
 150 159.8 0.0 347.8



#75
 1,1,2,2-Tetrachloroethane
 Concen: 1.707 ug/l
 RT: 12.630 min Scan# 1773
 Delta R.T. 0.049 min
 Lab File: VY013065.D
 Acq: 23 Mar 2023 17:12

Tgt Ion: 83 Resp: 75
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.1 15.2#
 85 0.0 31.8 95.3#

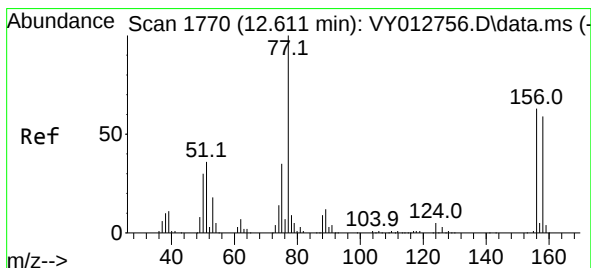
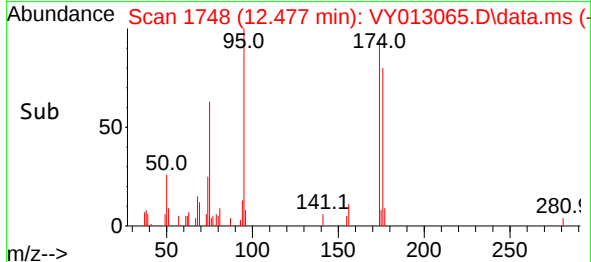
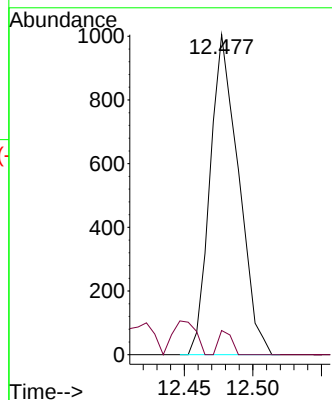
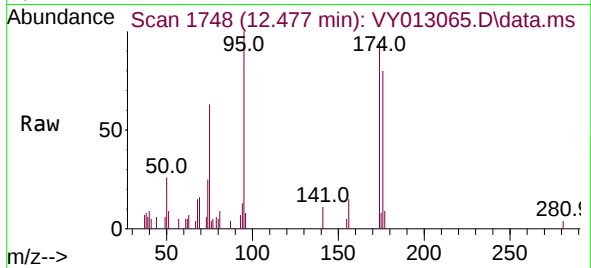




#76
1,2,3-Trichloropropane
Concen: 44.208 ug/l
RT: 12.477 min Scan# 1758
Delta R.T. -0.158 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

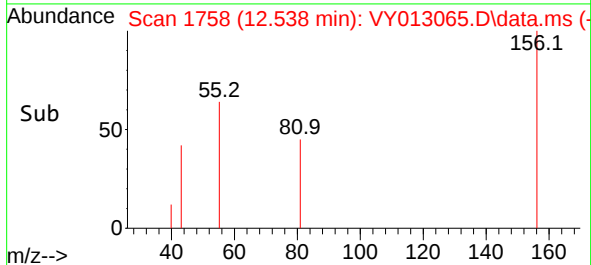
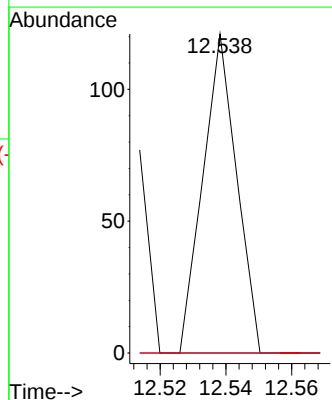
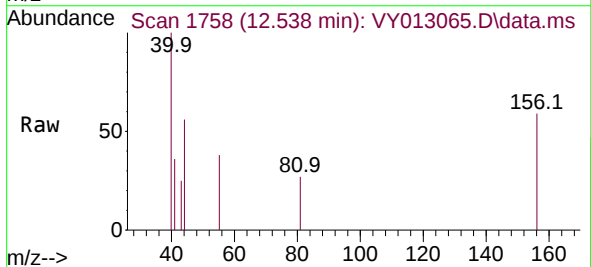
Instrument :
MSVOA_Y
ClientSampleId :
OK-02-032323

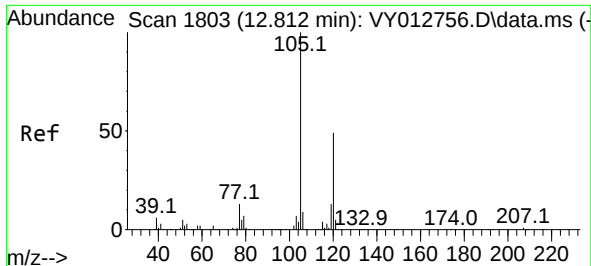
Tgt Ion: 75 Resp: 1456
Ion Ratio Lower Upper
75 100
77 3.4 0.0 0.0#



#77
Bromobenzene
Concen: 1.811 ug/l
RT: 12.538 min Scan# 1758
Delta R.T. -0.073 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

Tgt Ion: 156 Resp: 86
Ion Ratio Lower Upper
156 100
77 0.0 94.0 282.1#
158 0.0 48.1 144.4#

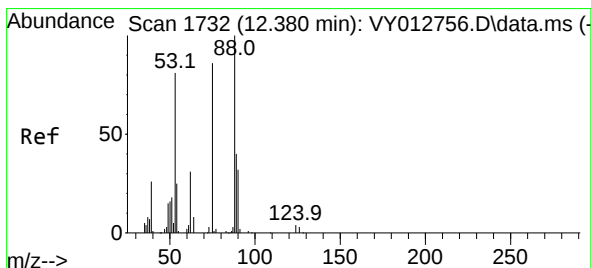
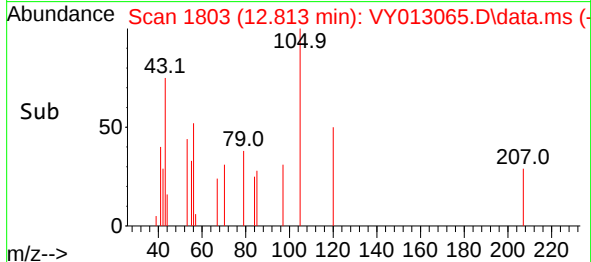
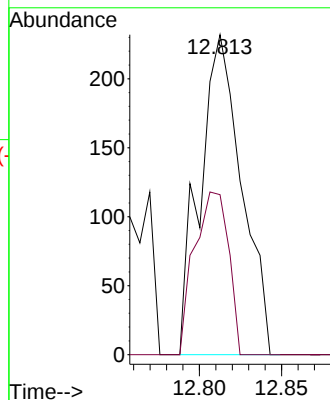
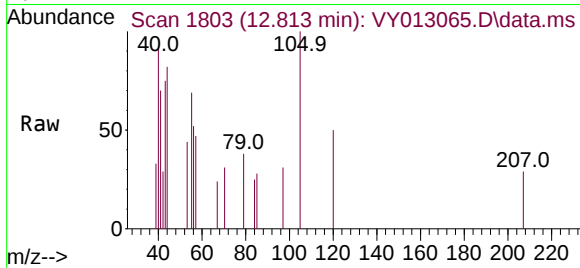




#80
 1,3,5-Trimethylbenzene
 Concen: 2.542 ug/l
 RT: 12.813 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VY013065.D
 Acq: 23 Mar 2023 17:12

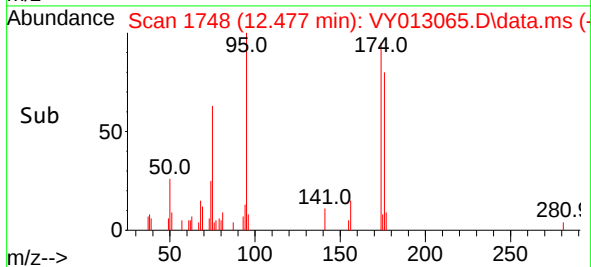
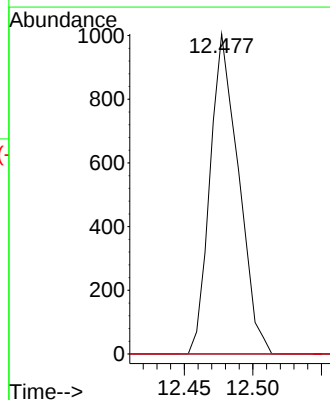
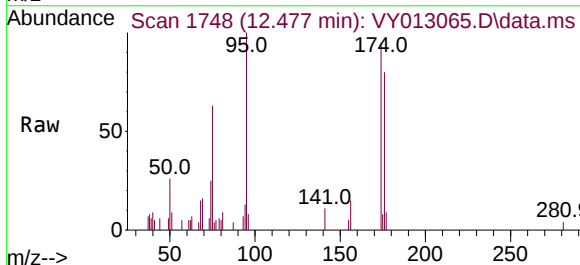
Instrument :
 MSVOA_Y
 ClientSampleId :
 OK-02-032323

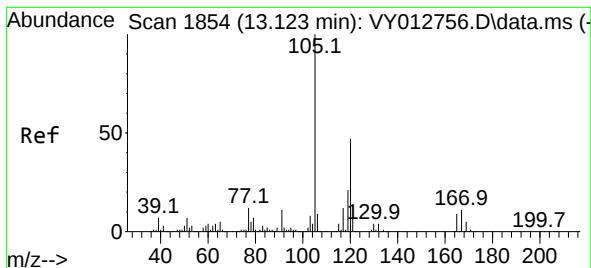
Tgt Ion:105 Resp: 410
 Ion Ratio Lower Upper
 105 100
 120 41.2 24.8 74.4



#81
 trans-1,4-Dichloro-2-butene
 Concen: 91.601 ug/l
 RT: 12.477 min Scan# 1748
 Delta R.T. 0.098 min
 Lab File: VY013065.D
 Acq: 23 Mar 2023 17:12

Tgt Ion: 75 Resp: 1456
 Ion Ratio Lower Upper
 75 100
 53 0.0 73.4 110.0#
 89 0.0 36.6 55.0#





#84

1,2,4-Trimethylbenzene

Concen: 4.381 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. 0.000 min

Lab File: VY013065.D

Acq: 23 Mar 2023 17:12

Instrument :

MSVOA_Y

ClientSampleId :

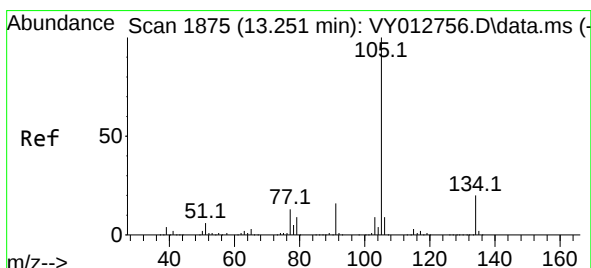
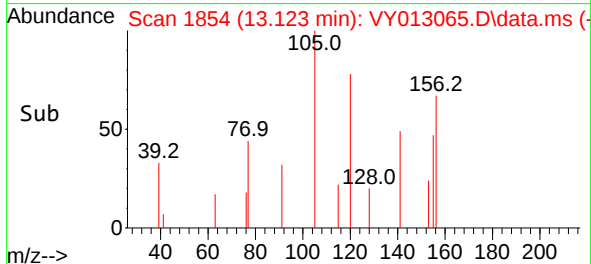
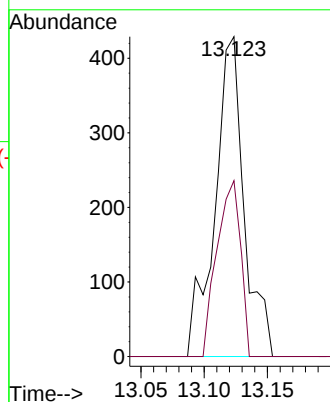
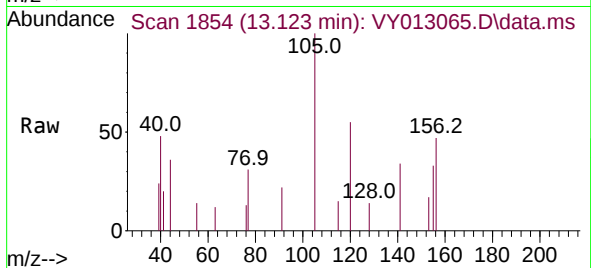
OK-02-032323

Tgt Ion:105 Resp: 691

Ion Ratio Lower Upper

105 100

120 44.3 23.0 69.0



#85

sec-Butylbenzene

Concen: 3.253 ug/l

RT: 13.123 min Scan# 1854

Delta R.T. -0.128 min

Lab File: VY013065.D

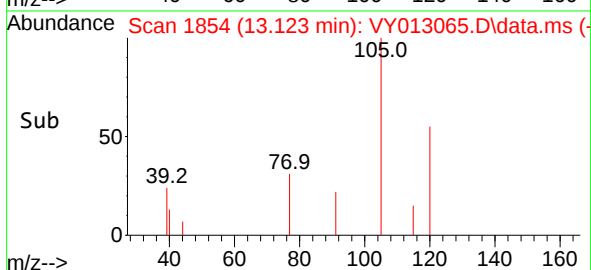
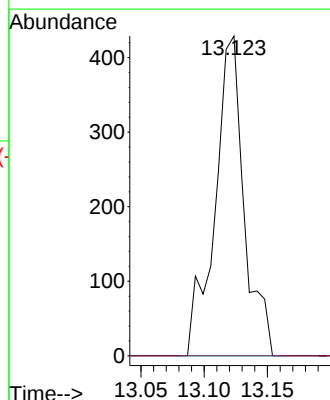
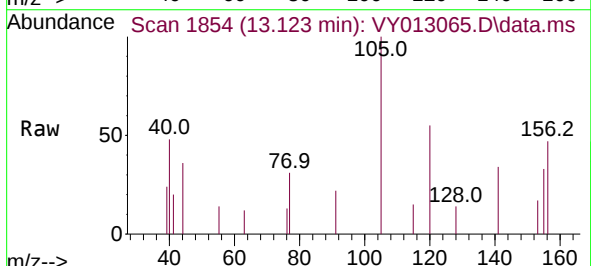
Acq: 23 Mar 2023 17:12

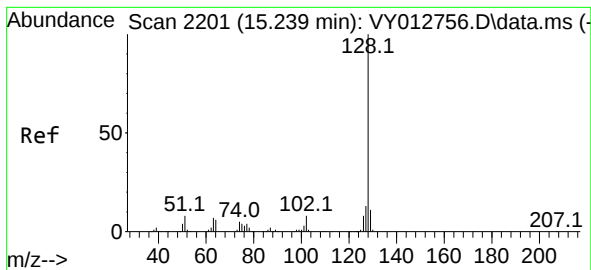
Tgt Ion:105 Resp: 691

Ion Ratio Lower Upper

105 100

134 0.0 10.4 31.1#





#95
Naphthalene
Concen: 17.309 ug/l
RT: 15.239 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY013065.D
Acq: 23 Mar 2023 17:12

Instrument :
MSVOA_Y
ClientSampleId :
OK-02-032323

Tgt Ion:	128	Resp:	1768
Ion	Ratio	Lower	Upper
128	100		
127	15.3	10.3	15.5
129	10.6	8.6	13.0

