

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061623\
 Data File : VY014223.D
 Acq On : 16 Jun 2023 23:02
 Operator : KP/MD
 Sample : 03224-05RE
 Misc : 7.51g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-SB-01/02-GRAB-5B2RE

Quant Time: Jun 17 01:52:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060923S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 09 18:07:13 2023
 Response via : Initial Calibration

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

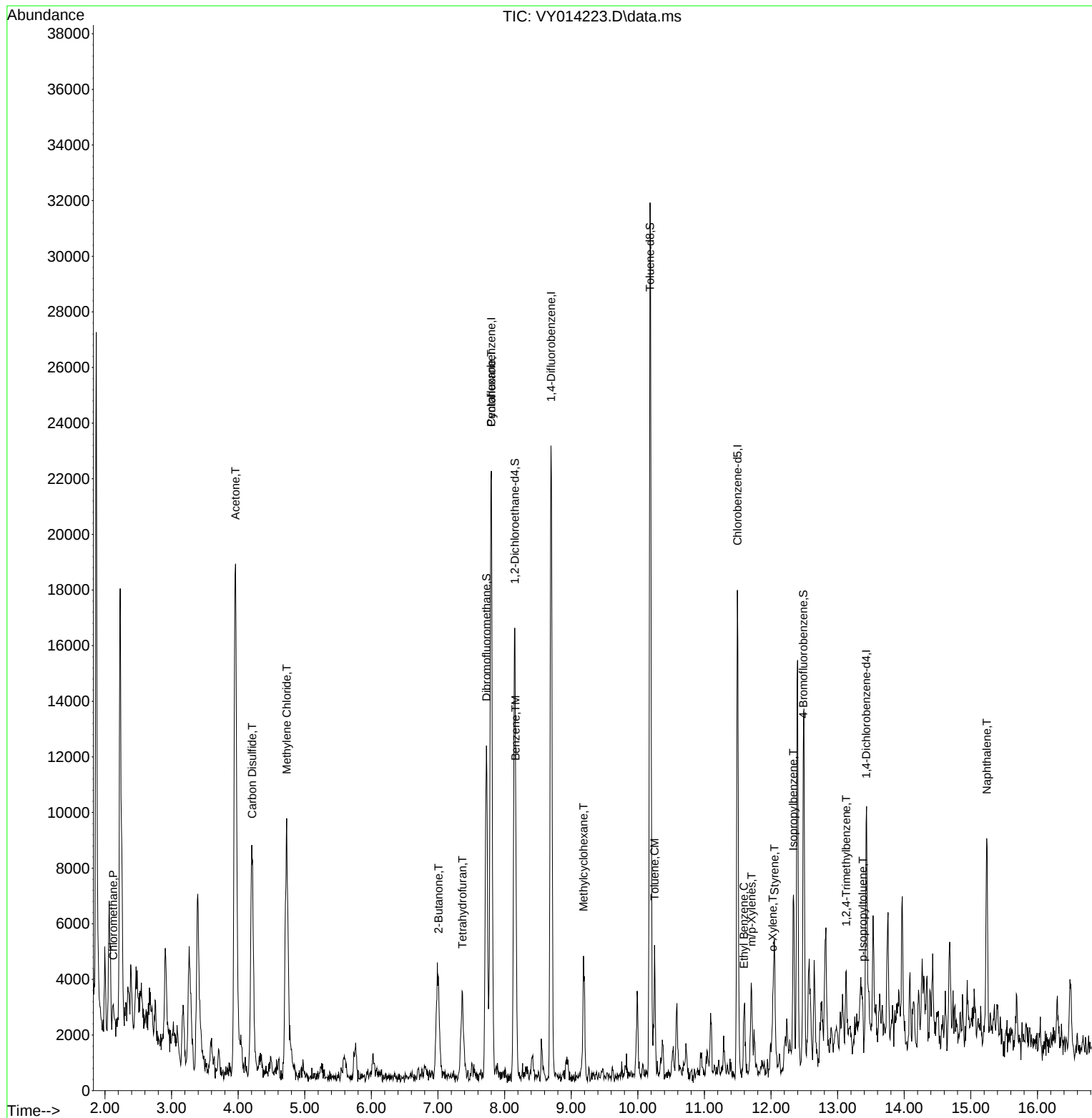
Internal Standards						
1) Pentafluorobenzene	7.801	168	16282	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.697	114	19158	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	9585	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	2486	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.155	65	12997	57.324	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 114.640%	
35) Dibromofluoromethane	7.728	113	7971	58.669	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 117.340%	
50) Toluene-d8	10.185	98	20573	40.503	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 81.000%	
62) 4-Bromofluorobenzene	12.483	95	2713	15.036	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 30.080%	
Target Compounds						Qvalue
3) Chloromethane	2.125	50	852	3.703	ug/l #	53
16) Acetone	3.960	43	32262	472.058	ug/l	99
17) Carbon Disulfide	4.210	76	13227	21.957	ug/l	98
20) Methylene Chloride	4.728	84	6125	26.378	ug/l #	85
25) 2-Butanone	7.008	43	3872	46.025	ug/l	92
29) Tetrahydrofuran	7.368	42	2288	42.890	ug/l #	92
31) Cyclohexane	7.801	56	1132	3.727	ug/l #	74
39) Methylcyclohexane	9.185	83	1319	5.613	ug/l	87
40) Benzene	8.167	78	2082	3.306	ug/l #	89
52) Toluene	10.252	92	1609	4.121	ug/l	98
67) Ethyl Benzene	11.593	91	2076	5.150	ug/l #	88
68) m/p-Xylenes	11.709	106	869	5.604	ug/l	80
69) o-Xylene	12.026	106	774	5.280	ug/l	74
70) Styrene	12.050	104	1929	7.709	ug/l	95
73) Isopropylbenzene	12.337	105	2055	10.836	ug/l	96
84) 1,2,4-Trimethylbenzene	13.129	105	1548	9.630	ug/l	96
86) p-Isopropyltoluene	13.379	119	1086	6.325	ug/l #	87
95) Naphthalene	15.239	128	6376	58.013	ug/l #	96

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

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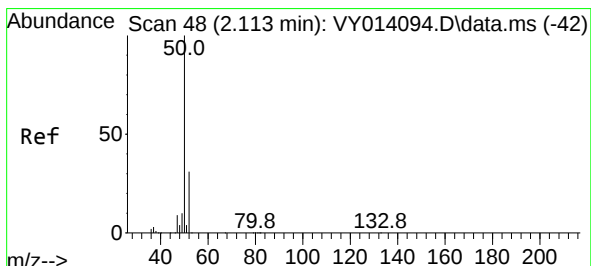
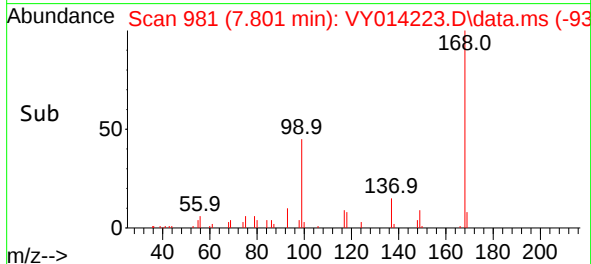
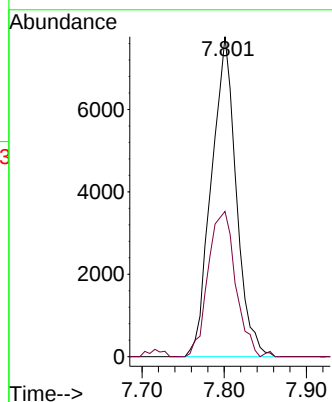
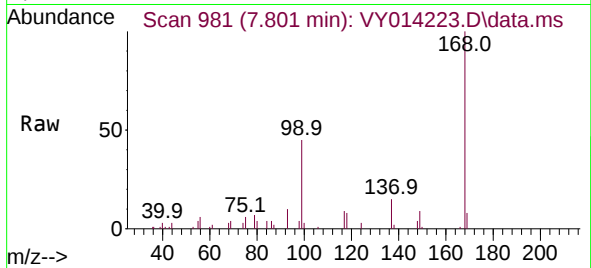




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

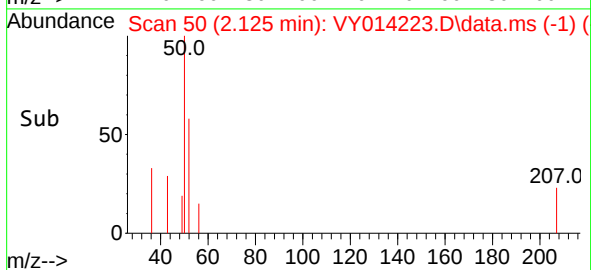
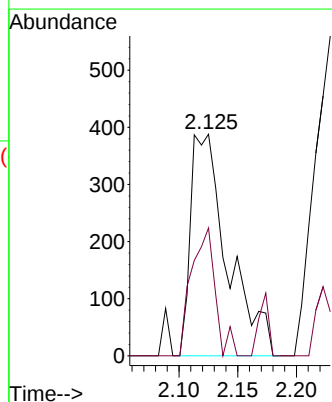
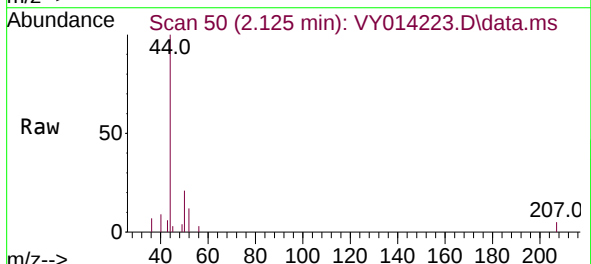
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-01/02-GRAB-5B2RE

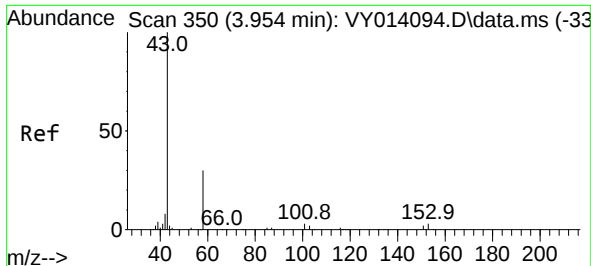
Tgt Ion:168 Resp: 16282
Ion Ratio Lower Upper
168 100
99 45.4 43.4 65.0



#3
Chloromethane
Concen: 3.703 ug/l
RT: 2.125 min Scan# 50
Delta R.T. 0.012 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

Tgt Ion: 50 Resp: 852
Ion Ratio Lower Upper
50 100
52 57.7 25.4 38.2#





#16

Acetone

Concen: 472.058 ug/l

RT: 3.960 min Scan# 31

Delta R.T. 0.006 min

Lab File: VY014223.D

Acq: 16 Jun 2023 23:02

Instrument :

MSVOA_Y

ClientSampleId :

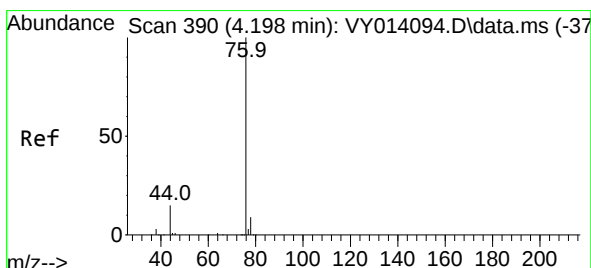
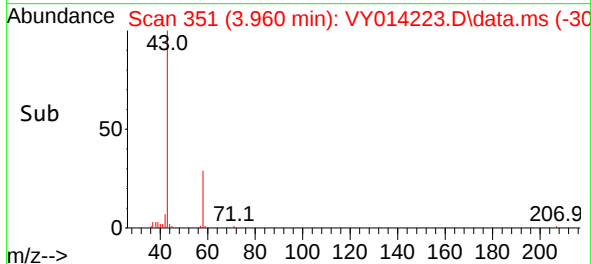
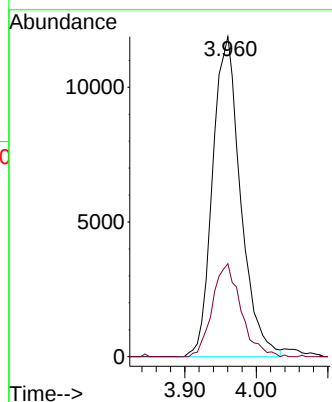
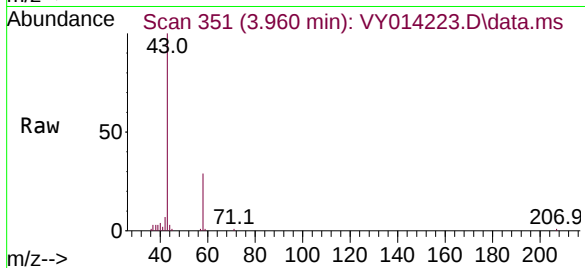
TOTAL-VOC-SB-01/02-GRAB-5B2RE

Tgt Ion: 43 Resp: 32262

Ion Ratio Lower Upper

43 100

58 29.1 22.7 34.1



#17

Carbon Disulfide

Concen: 21.957 ug/l

RT: 4.210 min Scan# 392

Delta R.T. 0.012 min

Lab File: VY014223.D

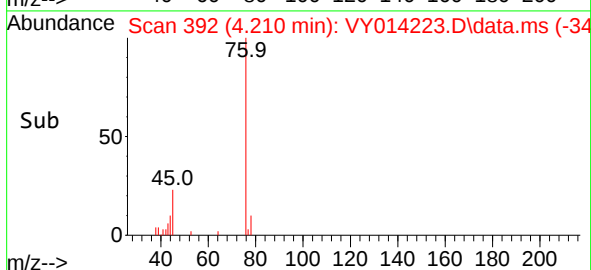
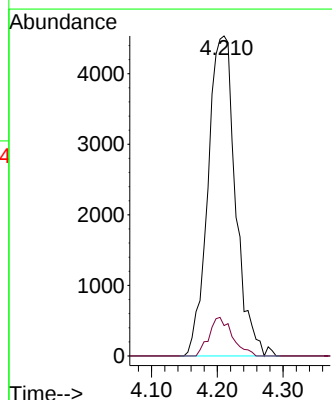
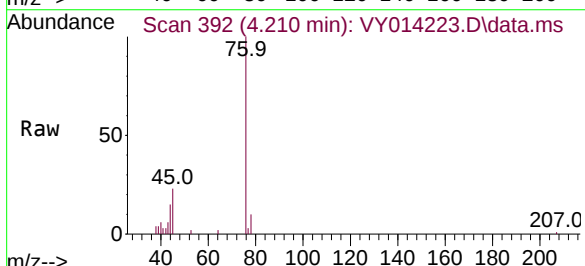
Acq: 16 Jun 2023 23:02

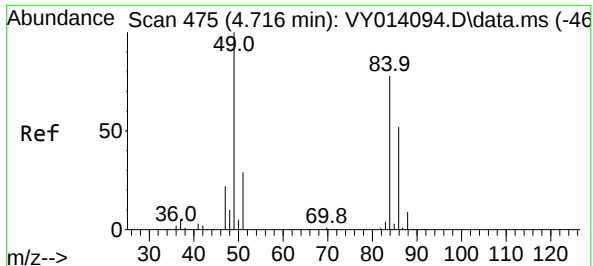
Tgt Ion: 76 Resp: 13227

Ion Ratio Lower Upper

76 100

78 9.5 7.0 10.4

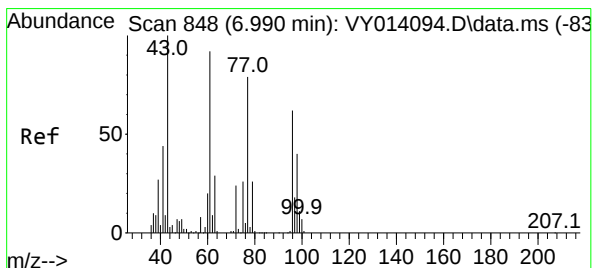
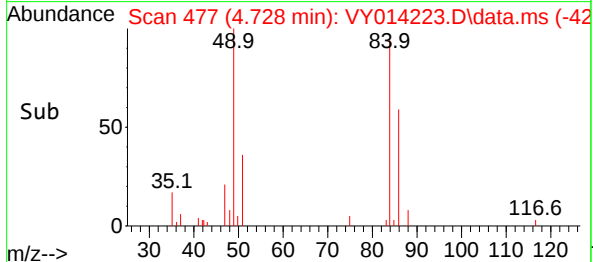
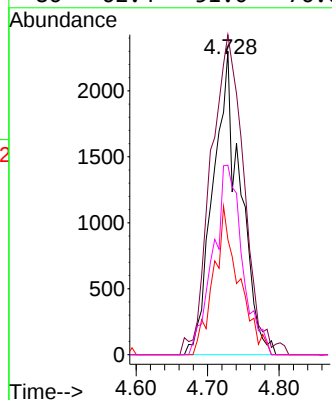
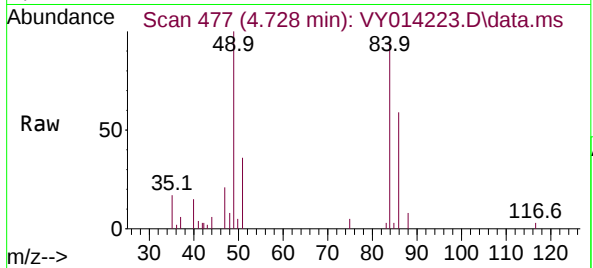




#20
Methylene Chloride
Concen: 26.378 ug/l
RT: 4.728 min Scan# 41
Delta R.T. 0.012 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

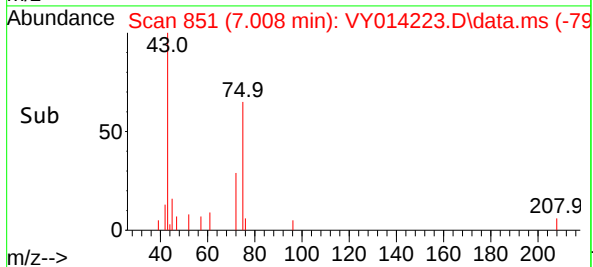
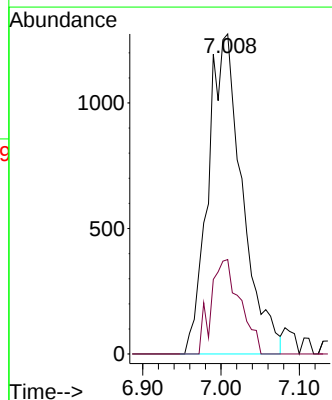
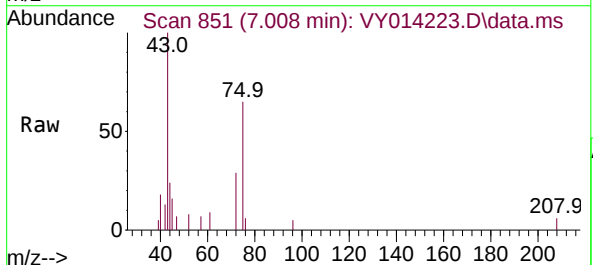
Instrument :
MSVOA_Y
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TOTAL-VOC-SB-01/02-GRAB-5B2RE

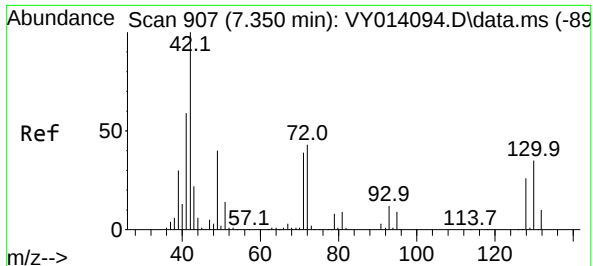
Tgt Ion:	84	Resp:	6125
Ion	Ratio	Lower	Upper
84	100		
49	105.4	106.9	160.3#
51	37.9	33.2	49.8
86	62.4	51.0	76.6



#25
2-Butanone
Concen: 46.025 ug/l
RT: 7.008 min Scan# 851
Delta R.T. 0.018 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

Tgt Ion:	43	Resp:	3872
Ion	Ratio	Lower	Upper
43	100		
72	29.5	20.5	30.7





#29

Tetrahydrofuran

Concen: 42.890 ug/l

RT: 7.368 min Scan# 91

Delta R.T. 0.018 min

Lab File: VY014223.D

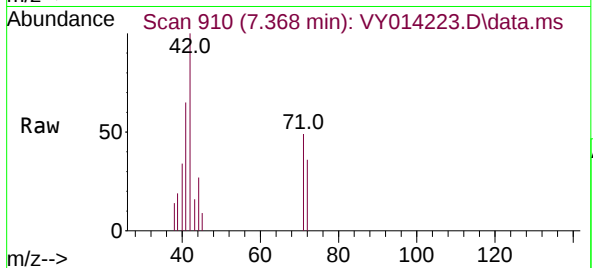
Acq: 16 Jun 2023 23:02

Instrument :

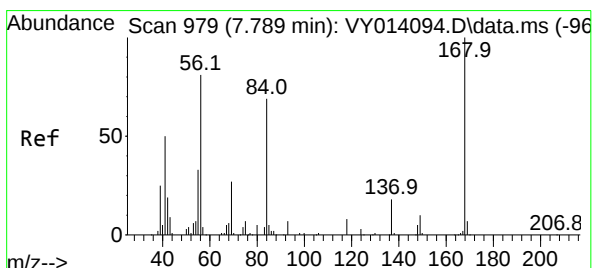
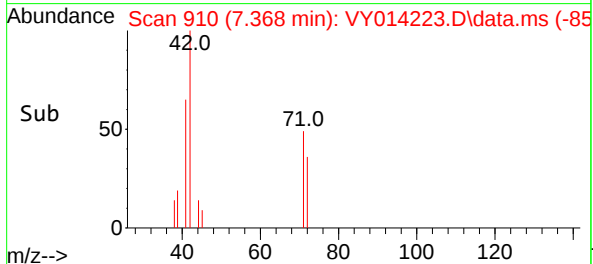
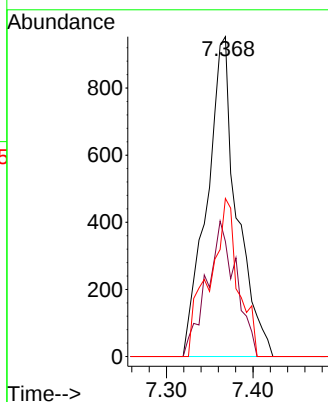
MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-01/02-GRAB-5B2RE



Tgt Ion:	42	Resp:	2288
Ion	Ratio	Lower	Upper
42	100		
72	41.6	32.8	49.2
71	47.7	31.0	46.4



#31

Cyclohexane

Concen: 3.727 ug/l

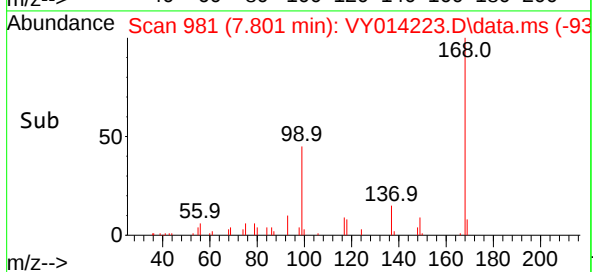
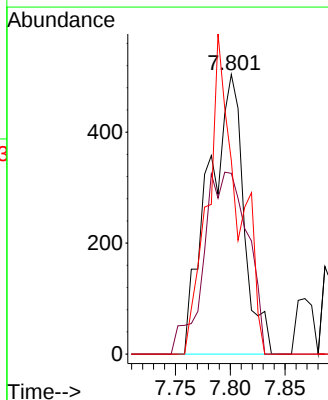
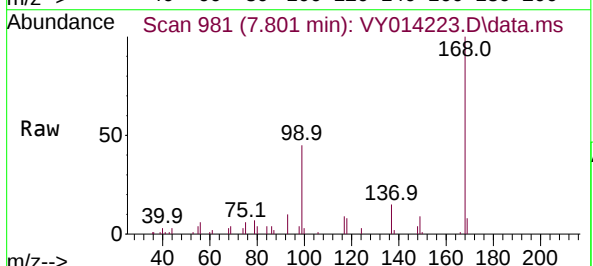
RT: 7.801 min Scan# 981

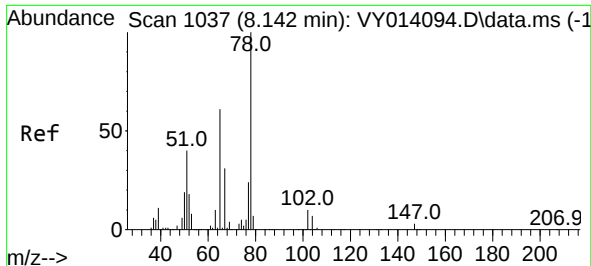
Delta R.T. 0.012 min

Lab File: VY014223.D

Acq: 16 Jun 2023 23:02

Tgt Ion:	56	Resp:	1132
Ion	Ratio	Lower	Upper
56	100		
69	64.7	27.8	41.6
84	69.2	66.4	99.6





#33

1,2-Dichloroethane-d4

Concen: 57.324 ug/l

RT: 8.155 min Scan# 1

Delta R.T. 0.013 min

Lab File: VY014223.D

Acq: 16 Jun 2023 23:02

Instrument :

MSVOA_Y

ClientSampleId :

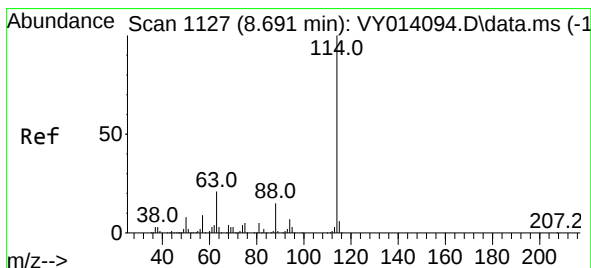
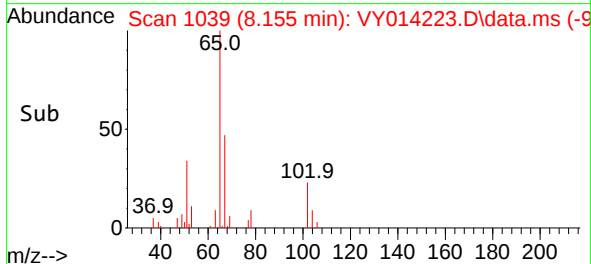
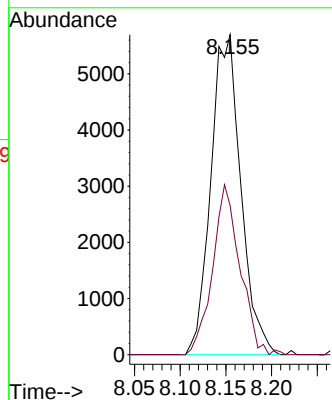
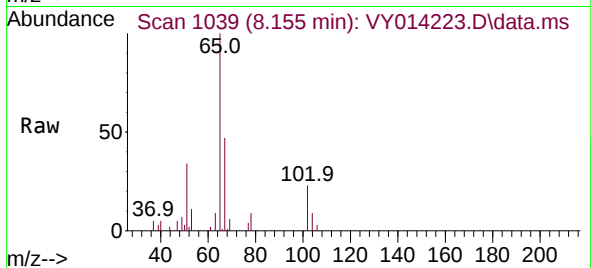
TOTAL-VOC-SB-01/02-GRAB-5B2RE

Tgt Ion: 65 Resp: 12997

Ion Ratio Lower Upper

65 100

67 48.6 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.697 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VY014223.D

Acq: 16 Jun 2023 23:02

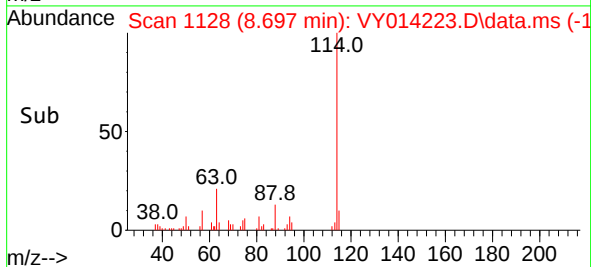
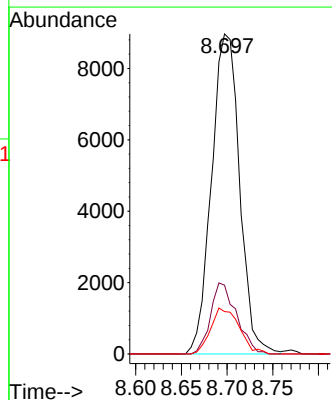
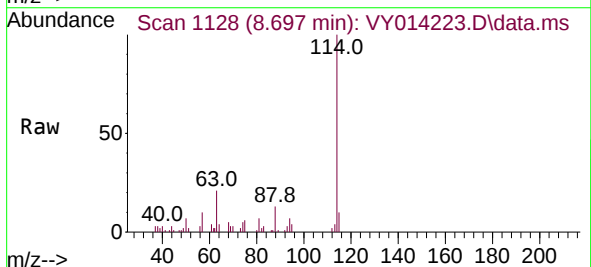
Tgt Ion: 114 Resp: 19158

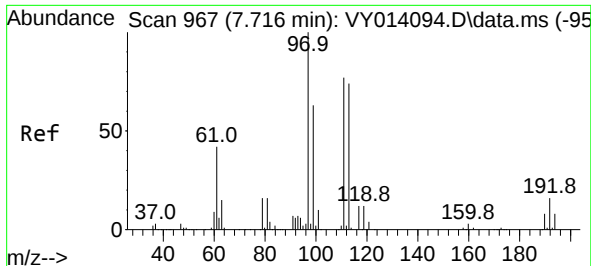
Ion Ratio Lower Upper

114 100

63 21.5 0.0 42.4

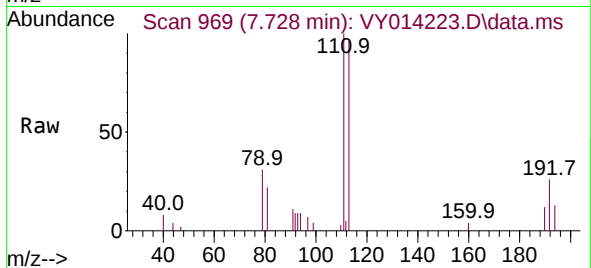
88 13.2 0.0 30.6



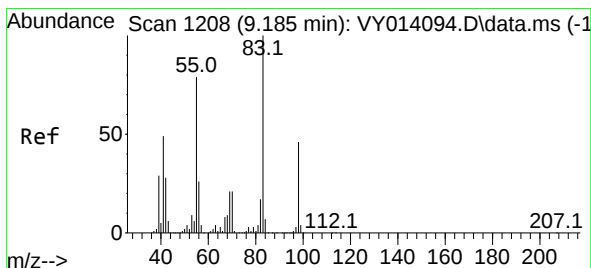
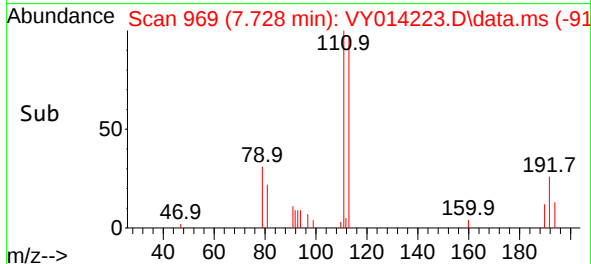
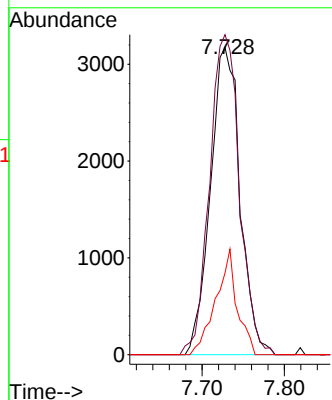


#35
Dibromofluoromethane
Concen: 58.669 ug/l
RT: 7.728 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY014223.D
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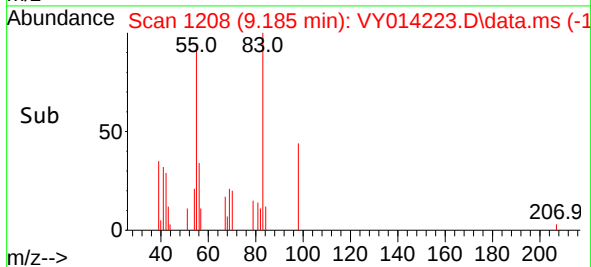
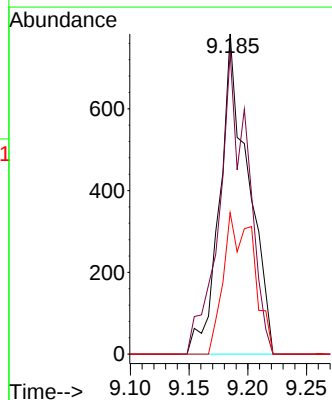
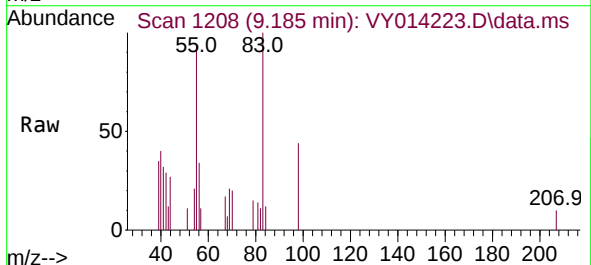


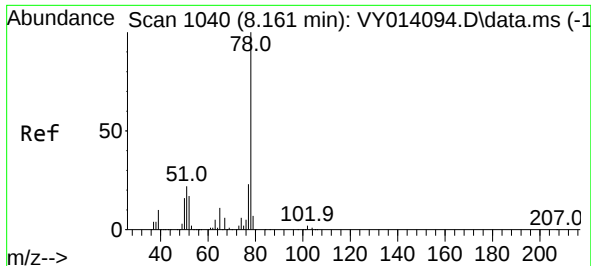
Tgt Ion:113 Resp: 7971
Ion Ratio Lower Upper
113 100
111 104.6 81.3 121.9
192 24.6 16.9 25.3



#39
Methylcyclohexane
Concen: 5.613 ug/l
RT: 9.185 min Scan# 1208
Delta R.T. -0.000 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

Tgt Ion: 83 Resp: 1319
Ion Ratio Lower Upper
83 100
55 94.3 63.0 94.4
98 44.2 37.4 56.2

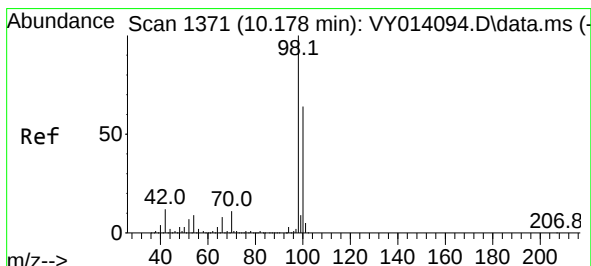
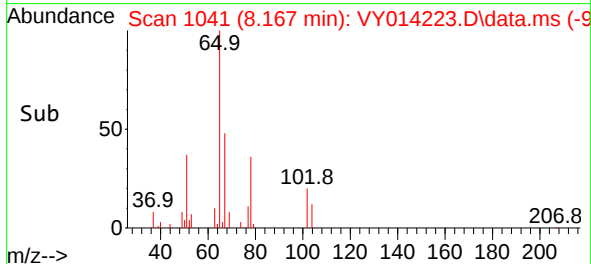
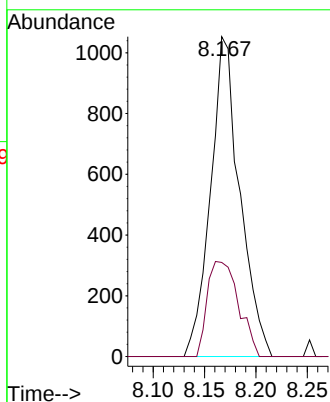
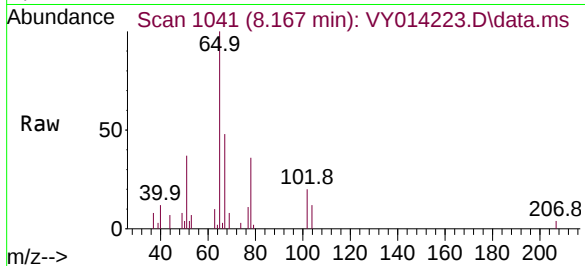




#40
Benzene
Concen: 3.306 ug/l
RT: 8.167 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

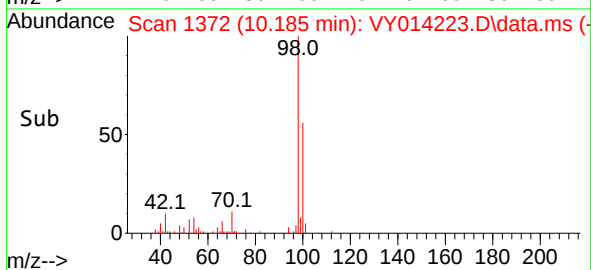
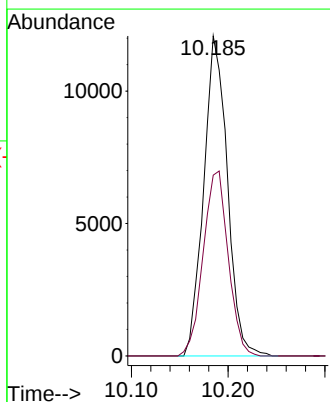
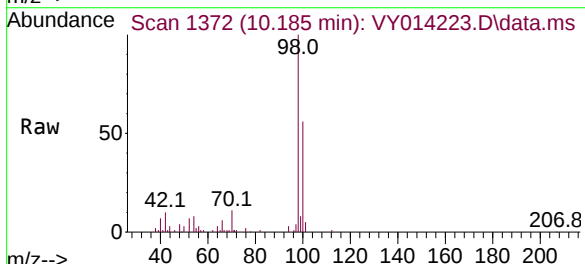
Instrument :
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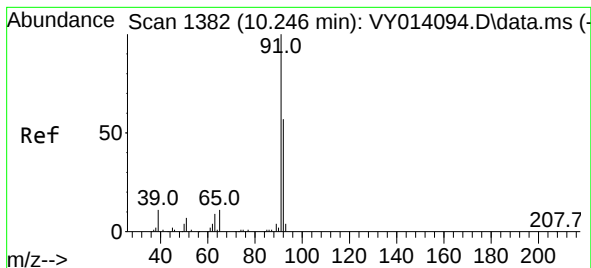
Tgt Ion: 78 Resp: 2082
Ion Ratio Lower Upper
78 100
77 29.4 19.0 28.6#



#50
Toluene-d8
Concen: 40.503 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.007 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

Tgt Ion: 98 Resp: 20573
Ion Ratio Lower Upper
98 100
100 61.1 50.1 75.1





#52

Toluene

Concen: 4.121 ug/l

RT: 10.252 min Scan# 1383

Delta R.T. 0.006 min

Lab File: VY014223.D

Acq: 16 Jun 2023 23:02

Instrument :

MSVOA_Y

ClientSampleId :

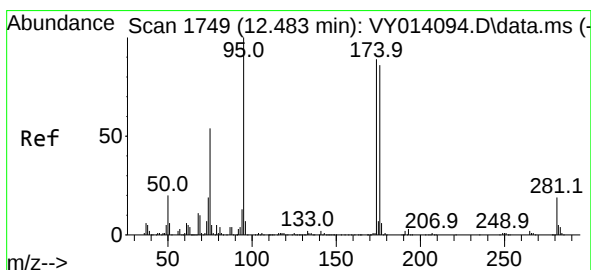
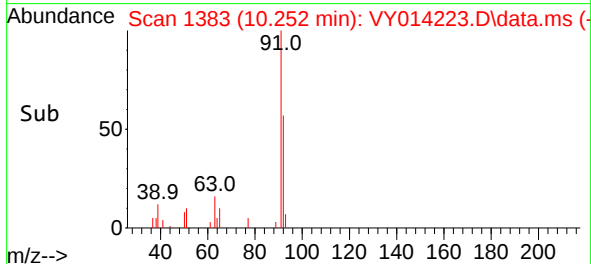
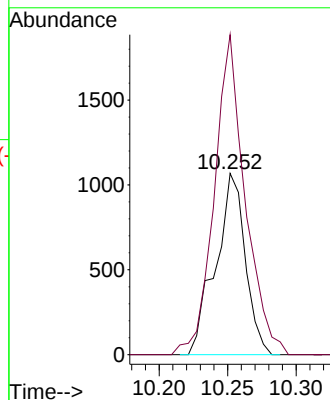
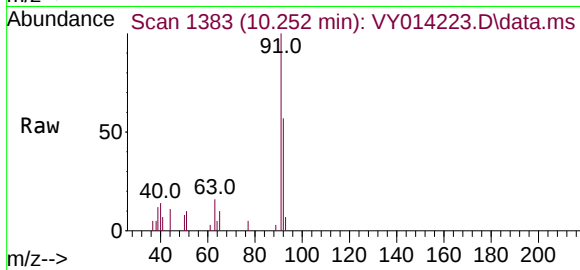
TOTAL-VOC-SB-01/02-GRAB-5B2RE

Tgt Ion: 92 Resp: 1609

Ion Ratio Lower Upper

92 100

91 183.2 143.8 215.6



#62

4-Bromofluorobenzene

Concen: 15.036 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VY014223.D

Acq: 16 Jun 2023 23:02

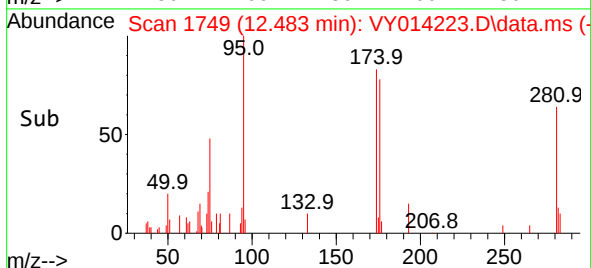
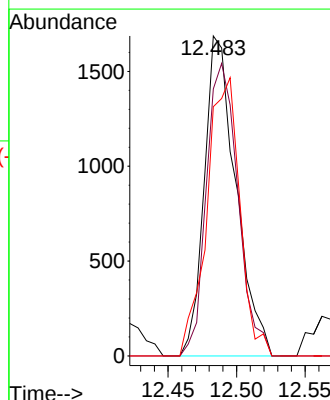
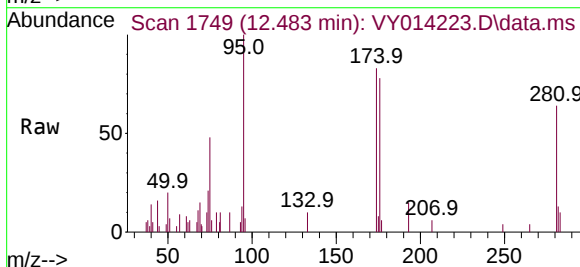
Tgt Ion: 95 Resp: 2713

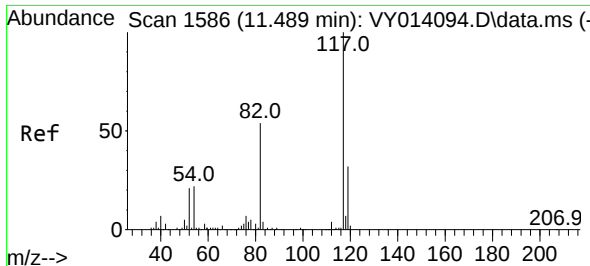
Ion Ratio Lower Upper

95 100

174 91.1 0.0 178.2

176 90.3 0.0 173.8

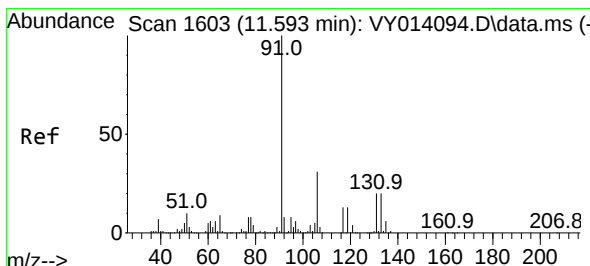
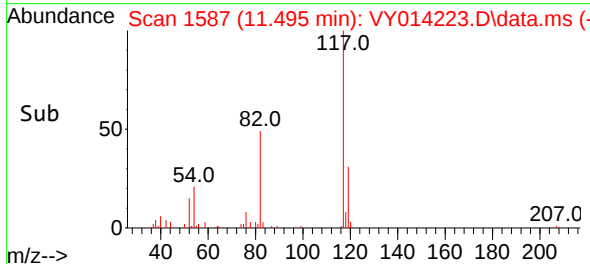
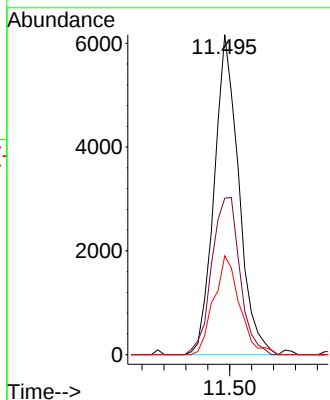
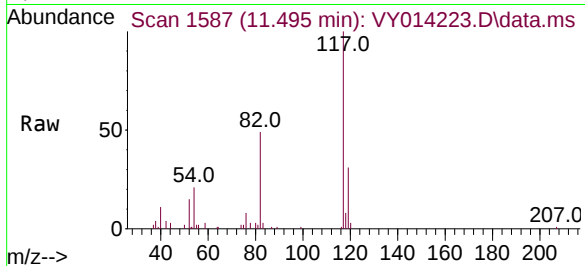




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

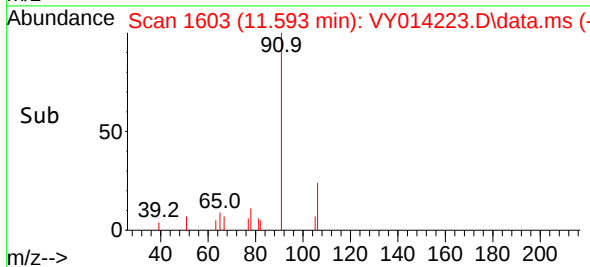
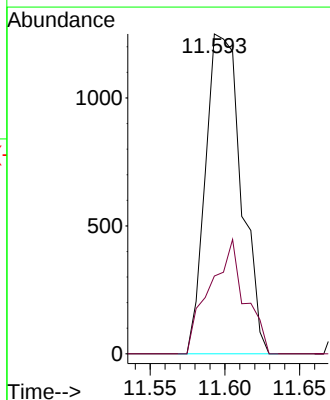
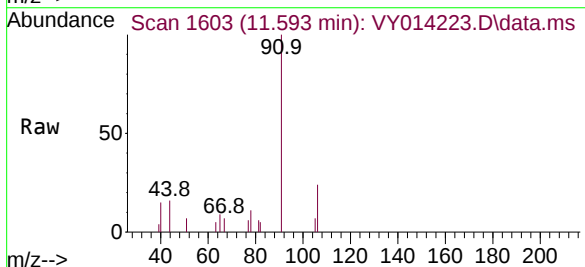
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-01/02-GRAB-5B2RE

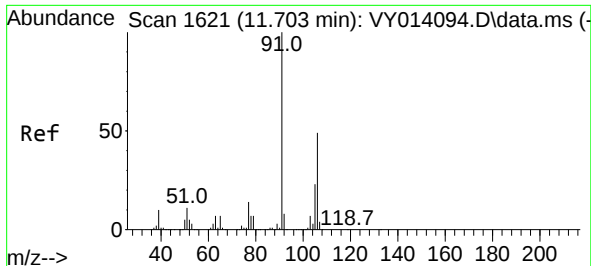
Tgt Ion:	117	Resp:	9585
Ion	Ratio	Lower	Upper
117	100		
82	48.9	43.4	65.0
119	30.9	26.3	39.5



#67
Ethyl Benzene
Concen: 5.150 ug/l
RT: 11.593 min Scan# 1603
Delta R.T. -0.000 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

Tgt Ion:	91	Resp:	2076
Ion	Ratio	Lower	Upper
91	100		
106	24.3	24.6	36.8#

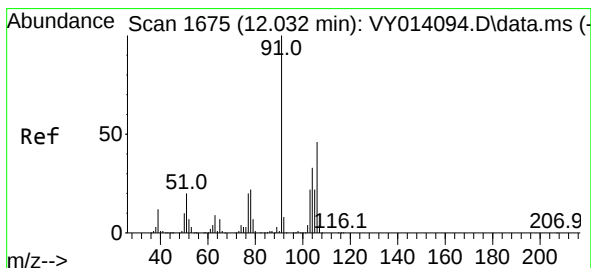
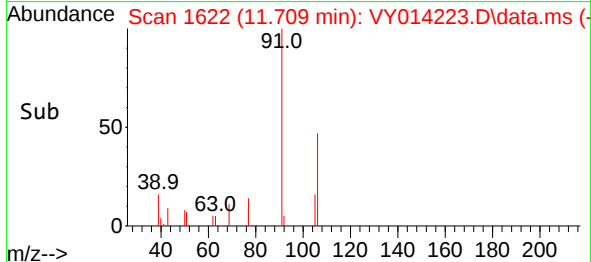
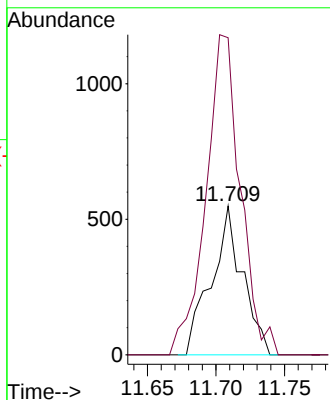
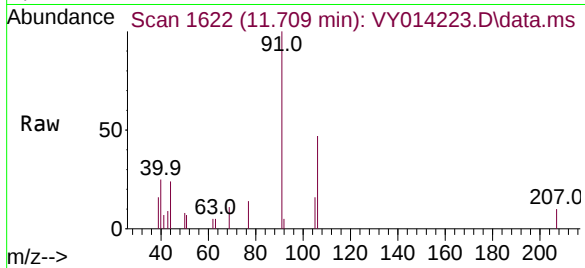




#68
m/p-Xylenes
Concen: 5.604 ug/l
RT: 11.709 min Scan# 1622
Delta R.T. 0.006 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

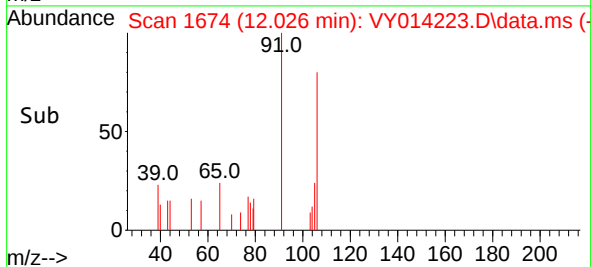
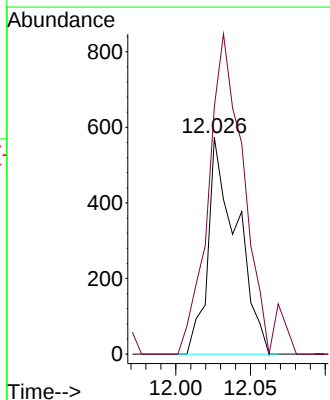
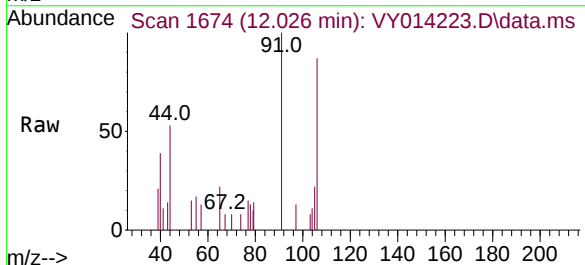
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-01/02-GRAB-5B2RE

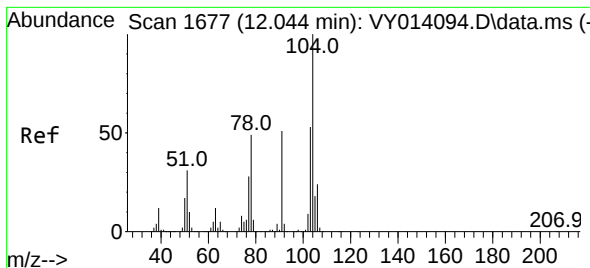
Tgt Ion:106 Resp: 869
Ion Ratio Lower Upper
106 100
91 238.2 166.1 249.1



#69
o-Xylene
Concen: 5.280 ug/l
RT: 12.026 min Scan# 1674
Delta R.T. -0.006 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

Tgt Ion:106 Resp: 774
Ion Ratio Lower Upper
106 100
91 175.5 108.1 324.3





#70

Styrene

Concen: 7.709 ug/l

RT: 12.050 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY014223.D

Acq: 16 Jun 2023 23:02

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-01/02-GRAB-5B2RE

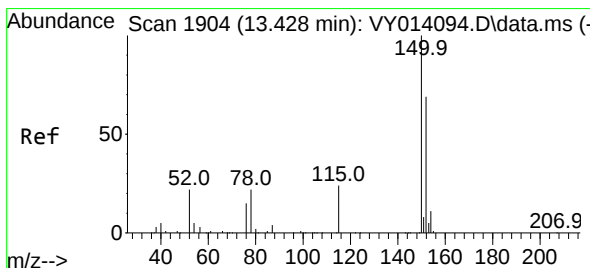
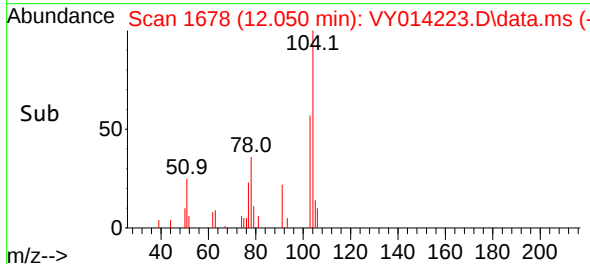
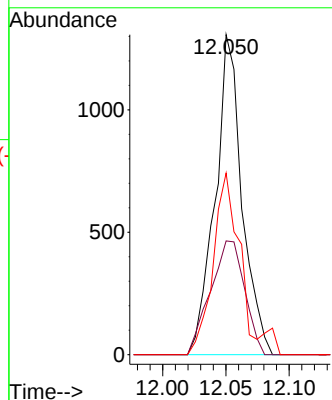
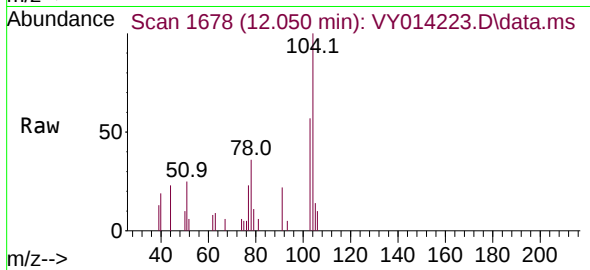
Tgt Ion:104 Resp: 1929

Ion Ratio Lower Upper

104 100

78 45.3 41.5 62.3

103 55.0 44.6 67.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1904

Delta R.T. -0.000 min

Lab File: VY014223.D

Acq: 16 Jun 2023 23:02

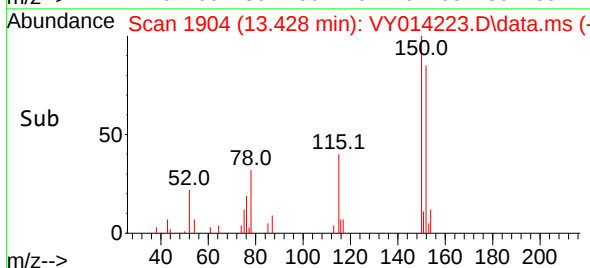
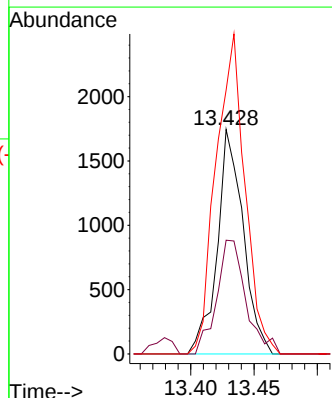
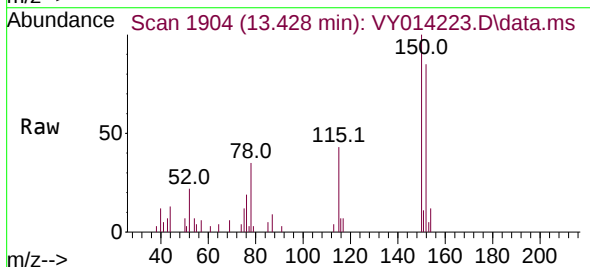
Tgt Ion:152 Resp: 2486

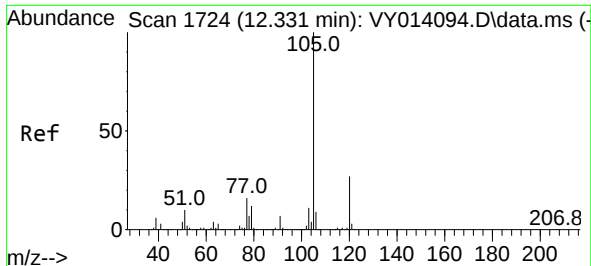
Ion Ratio Lower Upper

152 100

115 57.1 28.8 86.5

150 159.2 0.0 348.8

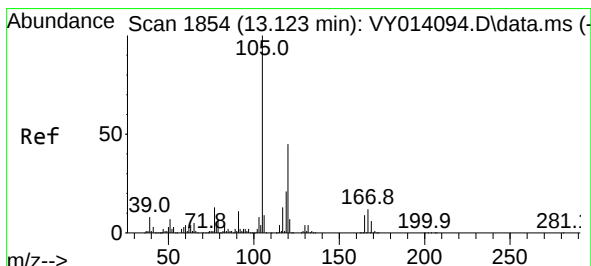
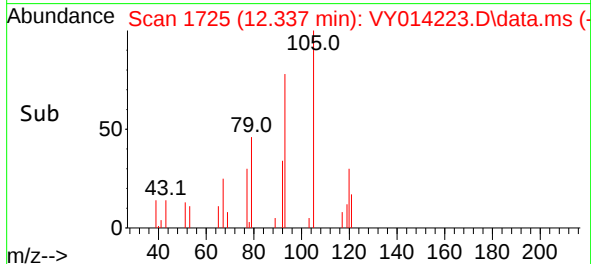
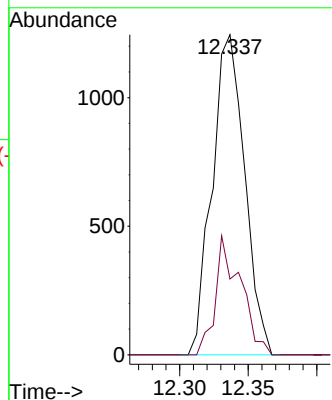
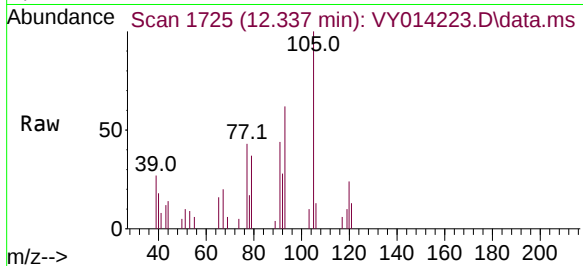




#73
Isopropylbenzene
Concen: 10.836 ug/l
RT: 12.337 min Scan# 1725
Delta R.T. 0.006 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

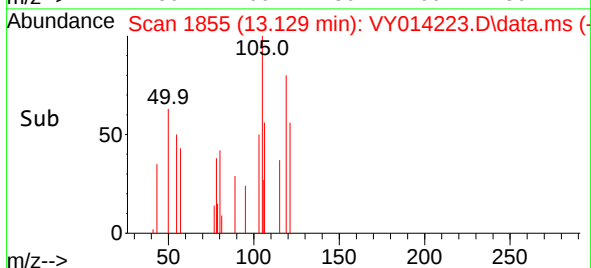
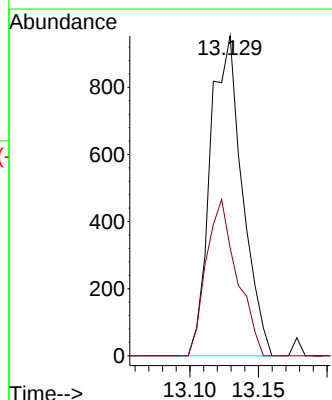
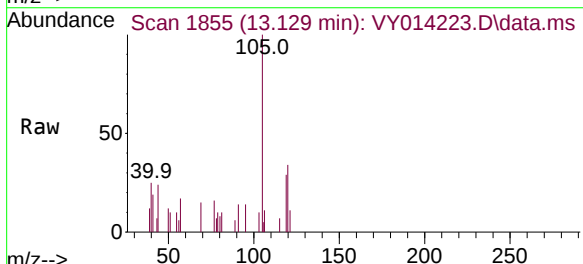
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-01/02-GRAB-5B2RE

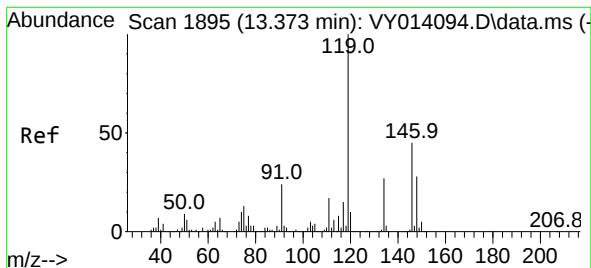
Tgt Ion:105 Resp: 2055
Ion Ratio Lower Upper
105 100
120 28.8 13.3 39.9



#84
1,2,4-Trimethylbenzene
Concen: 9.630 ug/l
RT: 13.129 min Scan# 1855
Delta R.T. 0.006 min
Lab File: VY014223.D
Acq: 16 Jun 2023 23:02

Tgt Ion:105 Resp: 1548
Ion Ratio Lower Upper
105 100
120 47.0 22.2 66.6





#86

p-Isopropyltoluene

Concen: 6.325 ug/l

RT: 13.379 min Scan# 1895

Delta R.T. 0.006 min

Lab File: VY014223.D

Acq: 16 Jun 2023 23:02

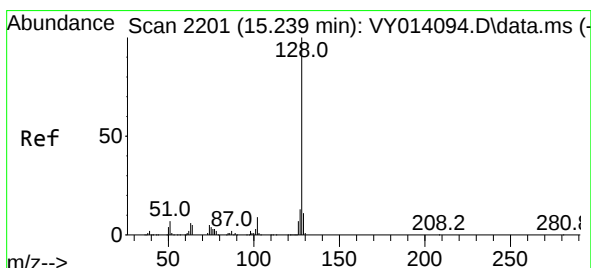
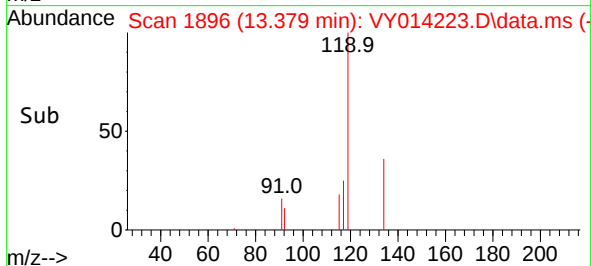
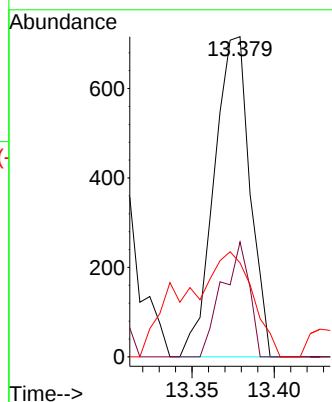
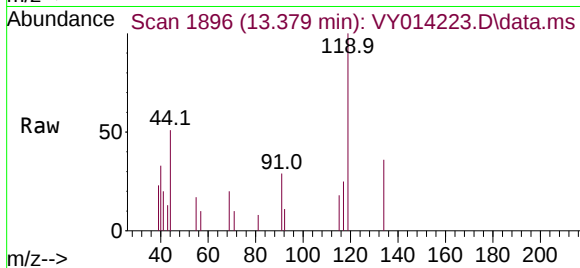
Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-01/02-GRAB-5B2RE

Tgt Ion:	119	Resp:	1086
Ion	Ratio	Lower	Upper
119	100		
134	27.1	13.3	39.8
91	38.1	12.4	37.4#



#95

Naphthalene

Concen: 58.013 ug/l

RT: 15.239 min Scan# 2201

Delta R.T. -0.000 min

Lab File: VY014223.D

Acq: 16 Jun 2023 23:02

Tgt Ion:	128	Resp:	6376
Ion	Ratio	Lower	Upper
128	100		
127	12.7	10.8	16.2
129	13.1	8.6	13.0#

