

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062623\
 Data File : VY014428.D
 Acq On : 26 Jun 2023 12:56
 Operator : KP/MD
 Sample : 03298-13
 Misc : 10.03g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-TP6-07-5N-4

Quant Time: Jun 27 01:45:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062323S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 23 17:18:46 2023
 Response via : Initial Calibration

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

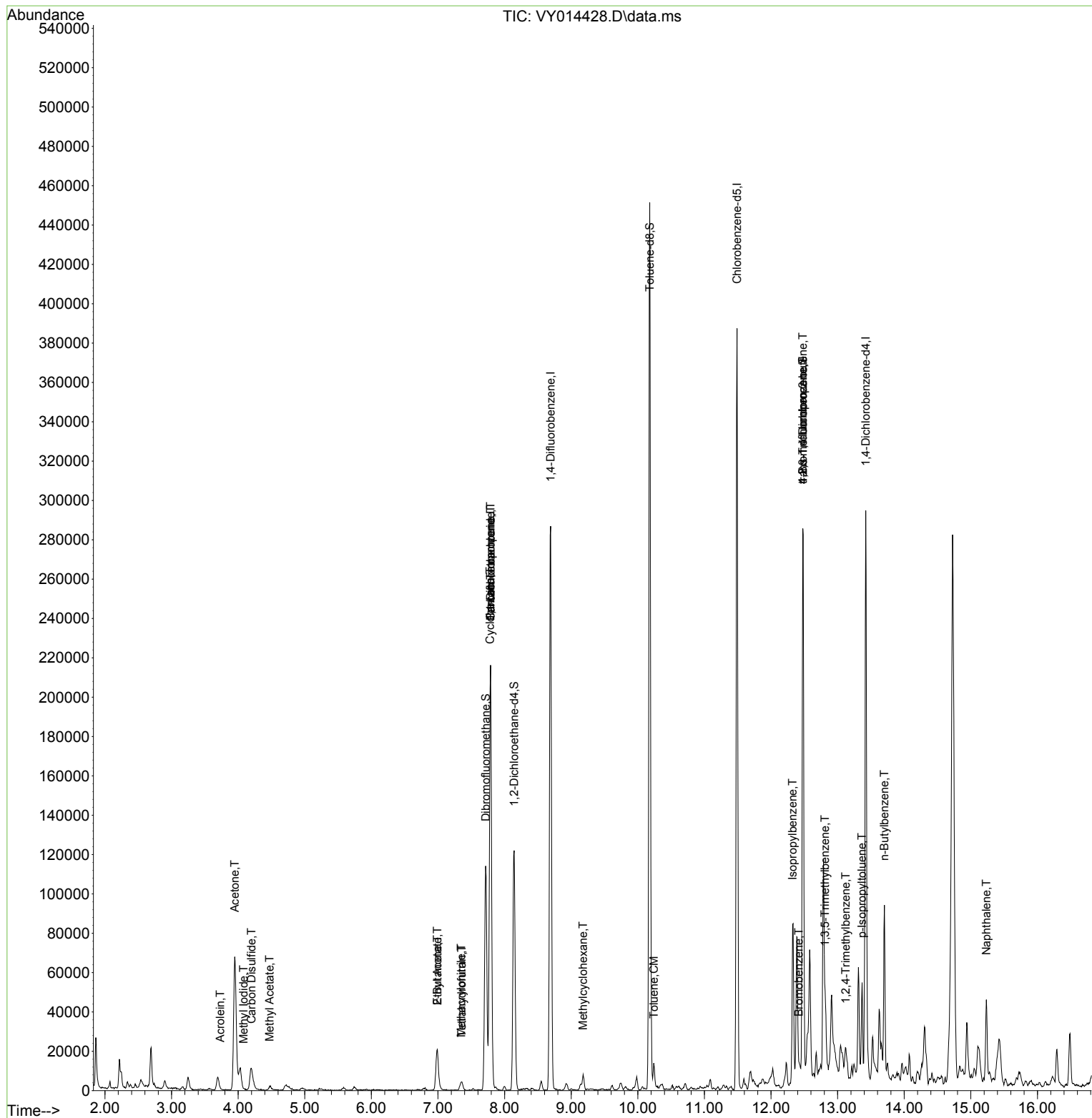
Internal Standards						
1) Pentafluorobenzene	7.789	168	166457	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	247870	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	207395	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	73708	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	108698	52.595	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 105.180%			
35) Dibromofluoromethane	7.715	113	76310	49.830	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 99.660%			
50) Toluene-d8	10.178	98	288369	47.371	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 94.740%			
62) 4-Bromofluorobenzene	12.477	95	78713	36.219	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 72.440%			
Target Compounds					Qvalue	
10) Methyl Iodide	4.082	142	139	2.939	ug/l #	74
11) Tert butyl alcohol	4.972	59	2289	Below Cal	#	97
13) Acrolein	3.728	56	549	6.303	ug/l #	14
16) Acetone	3.948	43	121544	186.898	ug/l	96
17) Carbon Disulfide	4.198	76	18432	3.884	ug/l	97
18) Methyl Acetate	4.472	43	3821	1.709	ug/l #	86
20) Methylene Chloride	4.722	84	1959	Below Cal	#	76
25) 2-Butanone	6.990	43	27853	34.387	ug/l	95
29) Tetrahydrofuran	7.356	42	2658	5.503	ug/l #	80
31) Cyclohexane	7.782	56	4303	1.686	ug/l #	46
36) 1,1-Dichloropropene	7.789	75	11671	4.946	ug/l #	50
37) Ethyl Acetate	6.990	43	27853	17.126	ug/l #	79
38) Carbon Tetrachloride	7.789	117	16293	5.486	ug/l #	16
39) Methylcyclohexane	9.179	83	2743	1.010	ug/l	93
41) Methacrylonitrile	7.350	41	2187	2.713	ug/l #	44
52) Toluene	10.239	92	4851	1.128	ug/l	95
73) Isopropylbenzene	12.324	105	44666	8.999	ug/l	98
76) 1,2,3-Trichloropropane	12.477	75	45850	49.589	ug/l #	100
77) Bromobenzene	12.416	156	7587	5.879	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.812	105	6207	1.446	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.477	75	45850	112.897	ug/l #	11
84) 1,2,4-Trimethylbenzene	13.123	105	8359	1.965	ug/l	94
86) p-Isopropyltoluene	13.367	119	26634	5.779	ug/l	95
89) n-Butylbenzene	13.702	91	4466	1.061	ug/l #	49
95) Naphthalene	15.232	128	34582	10.895	ug/l	98

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

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Quant Title : SW846 8260
QLast Update : Fri Jun 23 17:18:46 2023
Response via : Initial Calibration

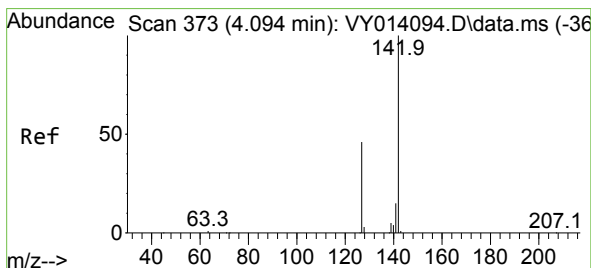
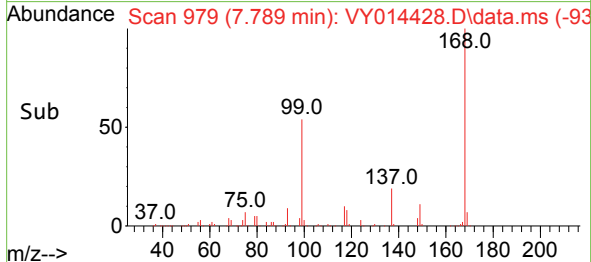
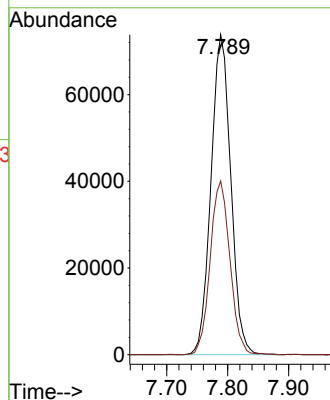
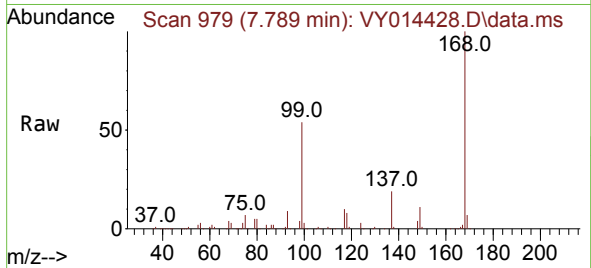




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

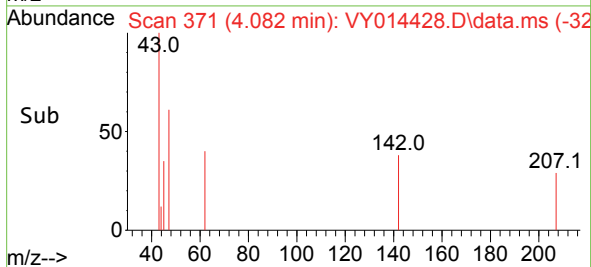
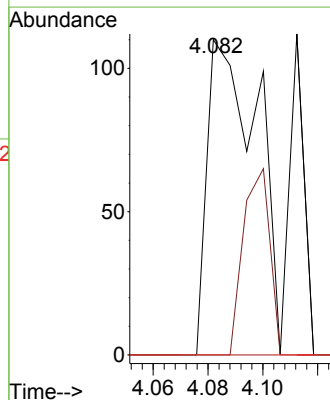
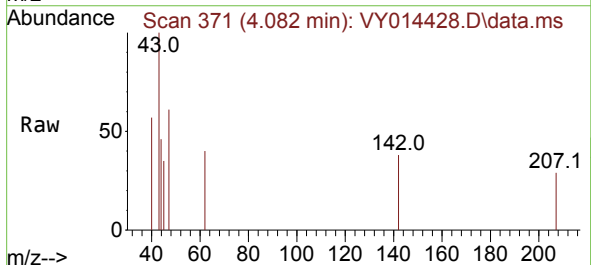
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-07-5N-4

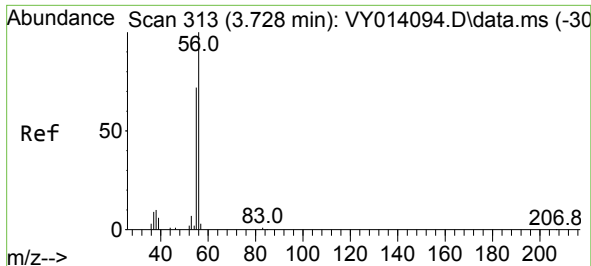
Tgt Ion:168 Resp: 166457
Ion Ratio Lower Upper
168 100
99 54.3 43.4 65.0



#10
Methyl Iodide
Concen: 2.939 ug/l
RT: 4.082 min Scan# 371
Delta R.T. -0.012 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

Tgt Ion:142 Resp: 139
Ion Ratio Lower Upper
142 100
127 31.7 37.6 56.4#
141 0.0 11.8 17.8#

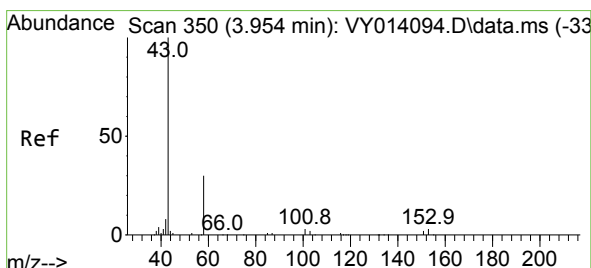
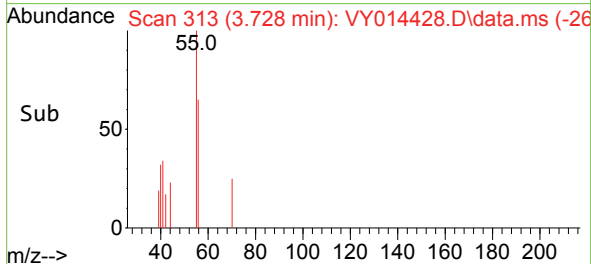
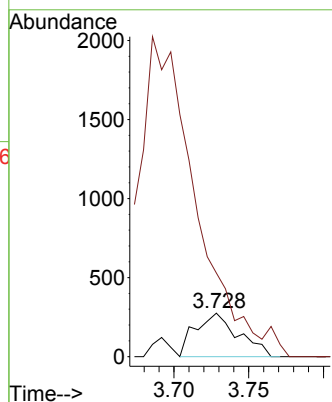
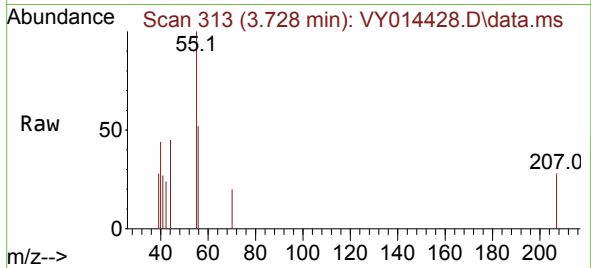




#13
Acrolein
Concen: 6.303 ug/l
RT: 3.728 min Scan# 313
Delta R.T. 0.000 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

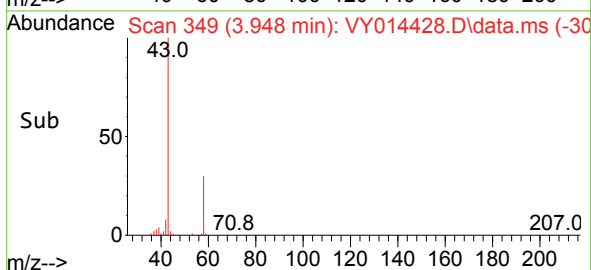
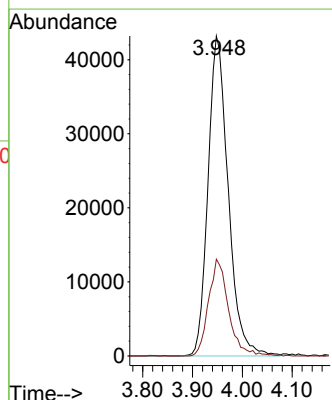
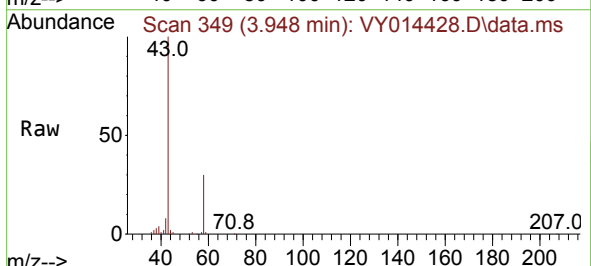
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-07-5N-4

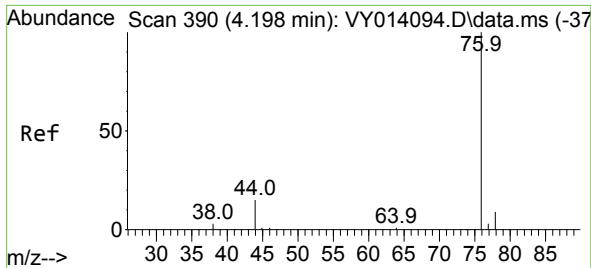
Tgt Ion: 56 Resp: 549
Ion Ratio Lower Upper
56 100
55 0.0 57.0 85.4#



#16
Acetone
Concen: 186.898 ug/l
RT: 3.948 min Scan# 349
Delta R.T. -0.006 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

Tgt Ion: 43 Resp: 121544
Ion Ratio Lower Upper
43 100
58 30.3 22.7 34.1

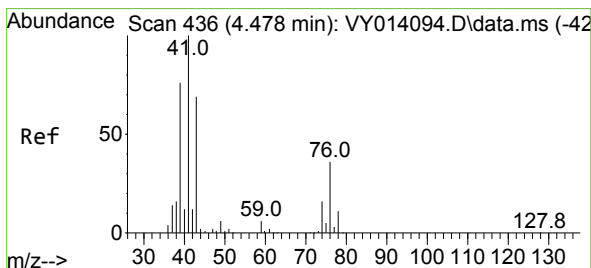
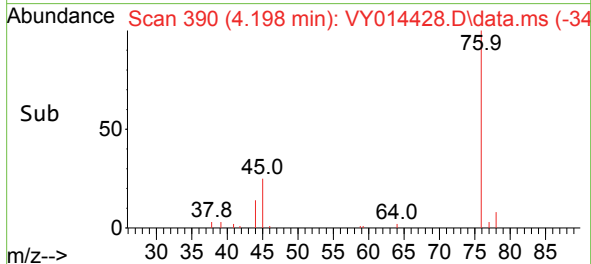
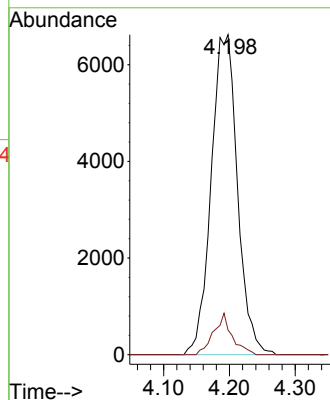
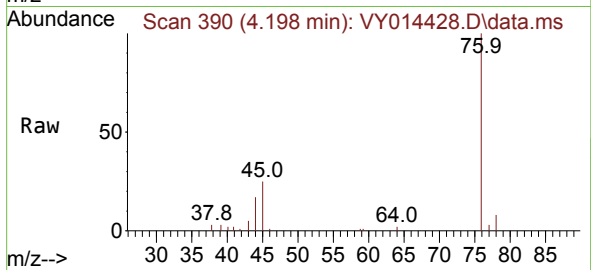




#17
Carbon Disulfide
Concen: 3.884 ug/l
RT: 4.198 min Scan# 390
Delta R.T. -0.000 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

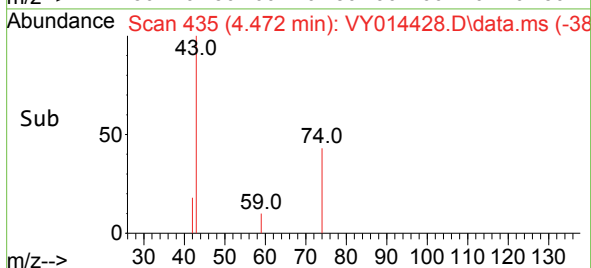
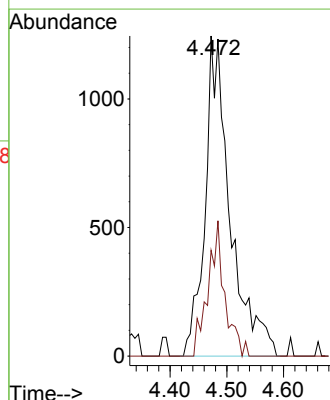
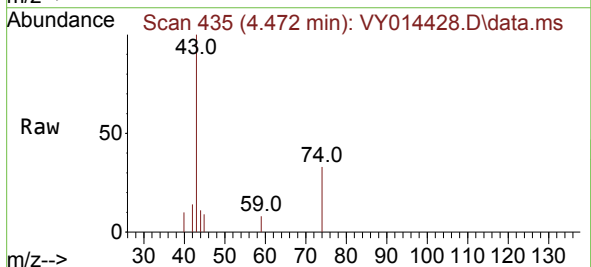
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-07-5N-4

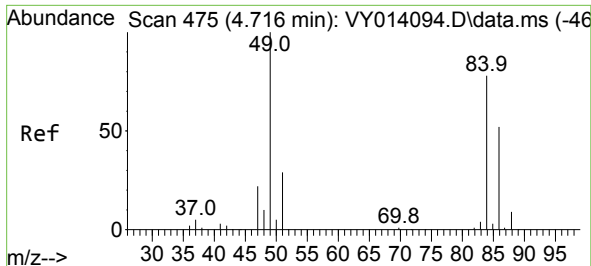
Tgt Ion: 76 Resp: 18432
Ion Ratio Lower Upper
76 100
78 7.7 7.0 10.4



#18
Methyl Acetate
Concen: 1.709 ug/l
RT: 4.472 min Scan# 435
Delta R.T. -0.006 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

Tgt Ion: 43 Resp: 3821
Ion Ratio Lower Upper
43 100
74 28.2 17.4 26.0#

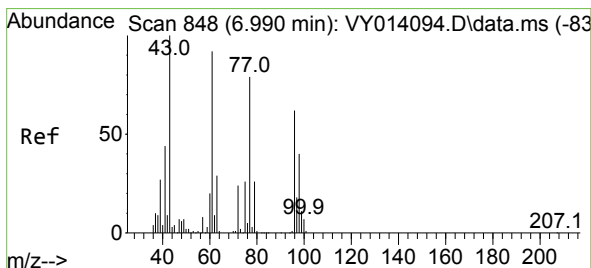
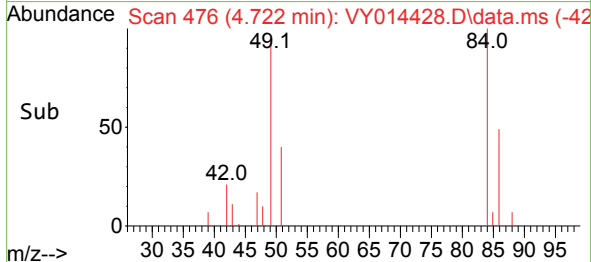
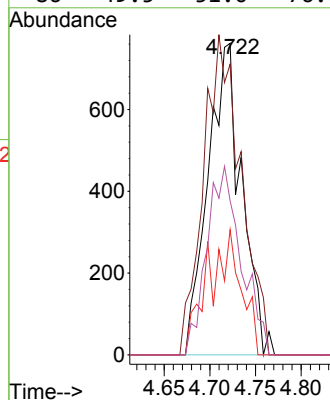
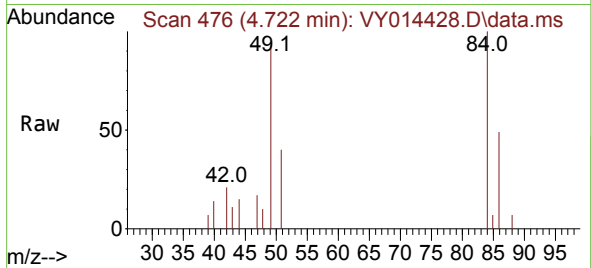




#20
Methylene Chloride
Concen: Below Cal
RT: 4.722 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

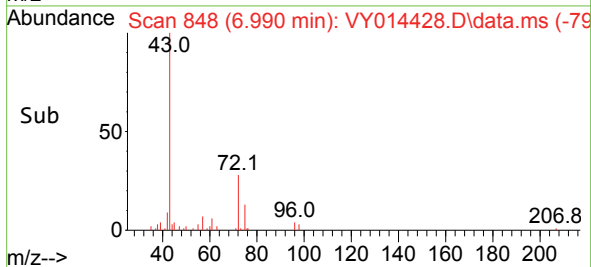
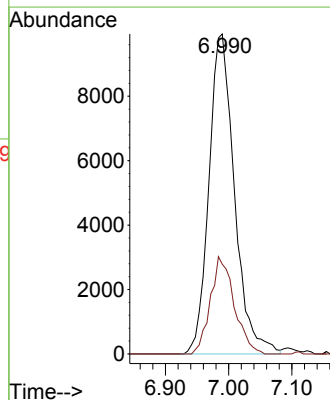
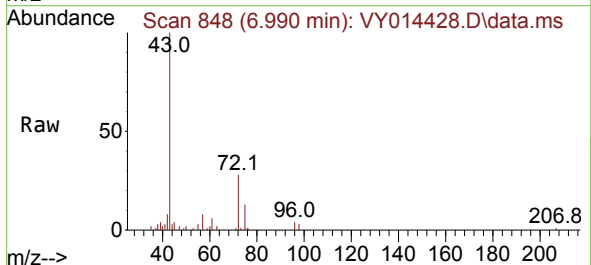
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-07-5N-4

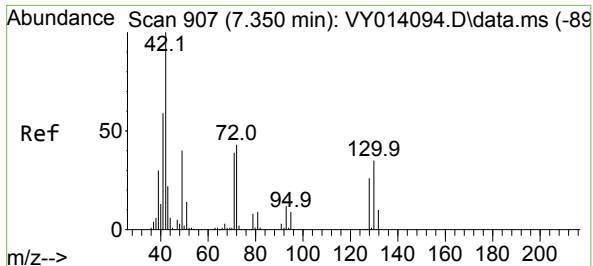
Tgt Ion: 84 Resp: 1959
Ion Ratio Lower Upper
84 100
49 93.3 106.9 160.3#
51 40.2 33.2 49.8
86 49.5 51.0 76.6#



#25
2-Butanone
Concen: 34.387 ug/l
RT: 6.990 min Scan# 848
Delta R.T. -0.000 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

Tgt Ion: 43 Resp: 27853
Ion Ratio Lower Upper
43 100
72 28.0 20.5 30.7





#29

Tetrahydrofuran

Concen: 5.503 ug/l

RT: 7.356 min Scan# 907

Delta R.T. 0.006 min

Lab File: VY014428.D

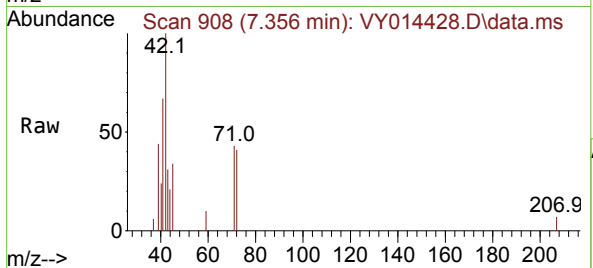
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Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-TP6-07-5N-4



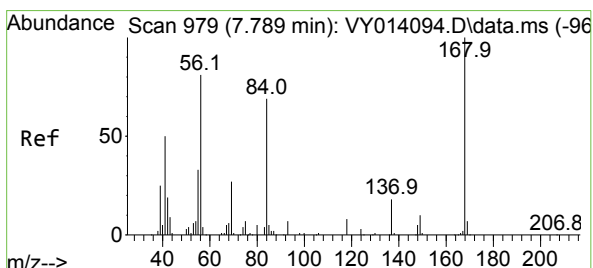
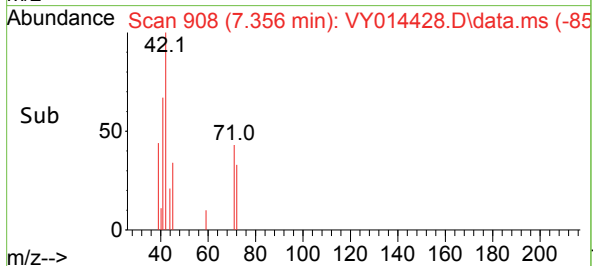
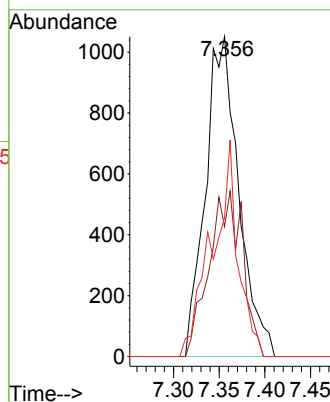
Tgt Ion: 42 Resp: 2658

Ion Ratio Lower Upper

42 100

72 52.1 32.8 49.2#

71 52.4 31.0 46.4#



#31

Cyclohexane

Concen: 1.686 ug/l

RT: 7.782 min Scan# 978

Delta R.T. -0.007 min

Lab File: VY014428.D

Acq: 26 Jun 2023 12:56

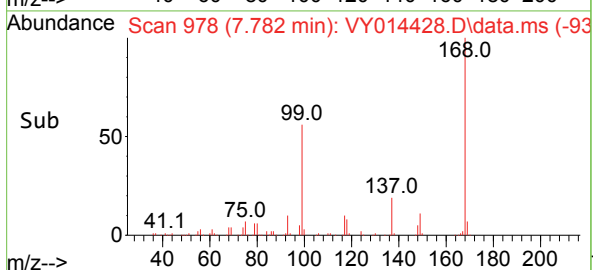
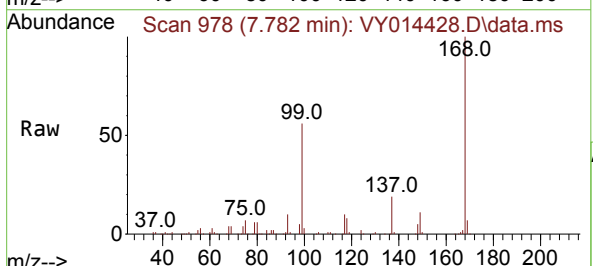
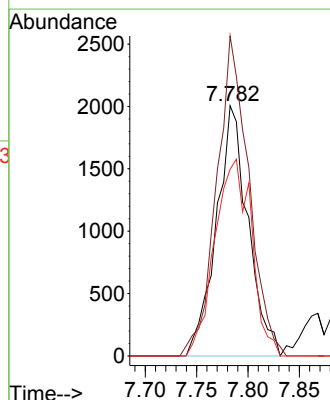
Tgt Ion: 56 Resp: 4303

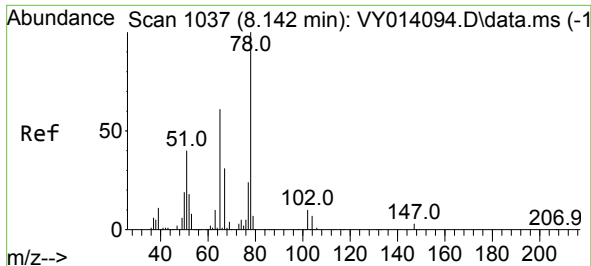
Ion Ratio Lower Upper

56 100

69 127.9 27.8 41.6#

84 74.6 66.4 99.6





#33

1,2-Dichloroethane-d4

Concen: 52.595 ug/l

RT: 8.142 min Scan# 1037

Delta R.T. 0.000 min

Lab File: VY014428.D

Acq: 26 Jun 2023 12:56

Instrument :

MSVOA_Y

ClientSampleId :

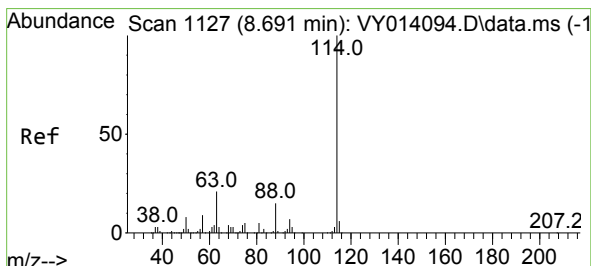
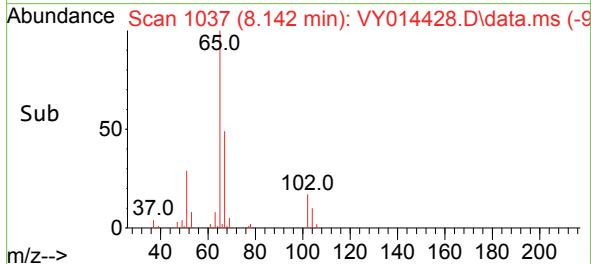
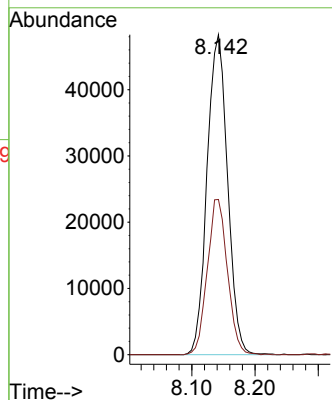
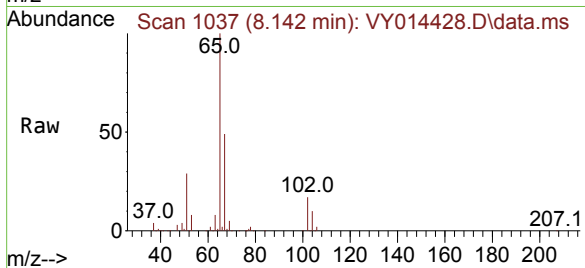
TOTAL-VOC-TP6-07-5N-4

Tgt Ion: 65 Resp: 108698

Ion Ratio Lower Upper

65 100

67 47.7 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY014428.D

Acq: 26 Jun 2023 12:56

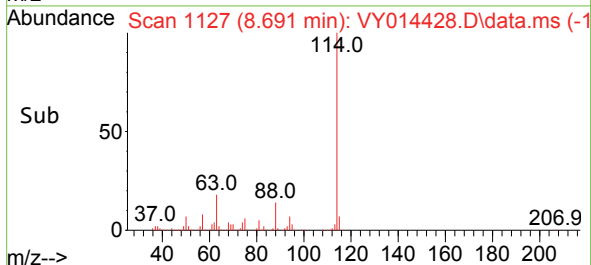
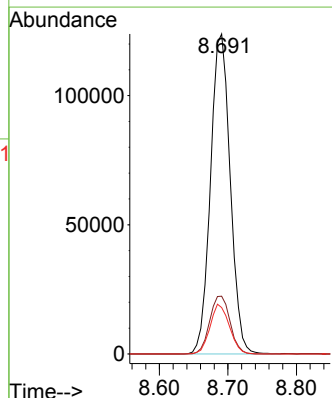
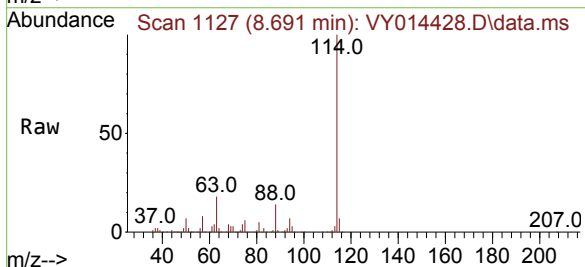
Tgt Ion: 114 Resp: 247870

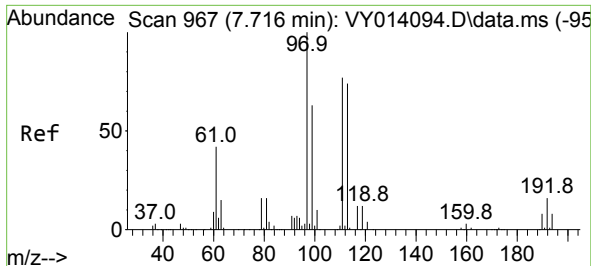
Ion Ratio Lower Upper

114 100

63 18.0 0.0 42.4

88 14.5 0.0 30.6

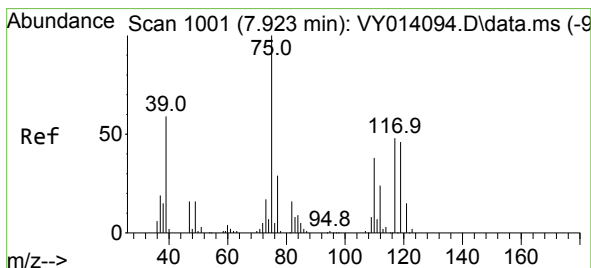
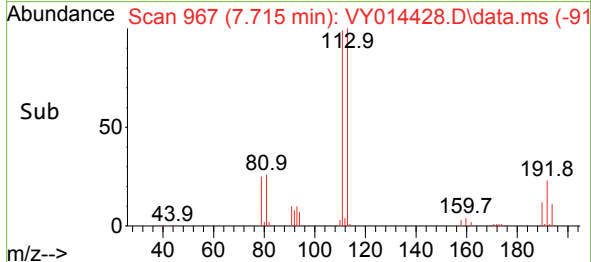
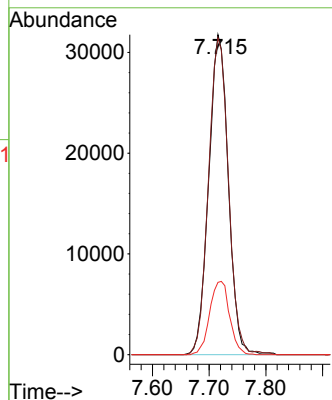
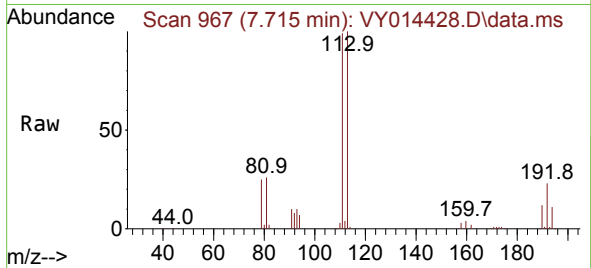




#35
Dibromofluoromethane
Concen: 49.830 ug/l
RT: 7.715 min Scan# 910
Delta R.T. -0.001 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

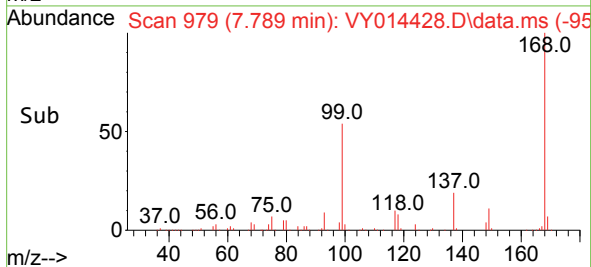
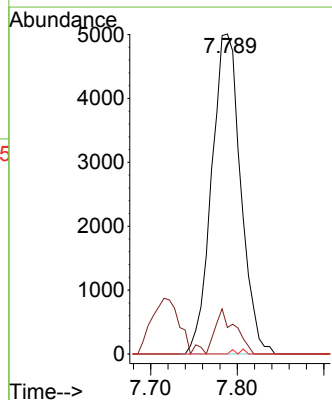
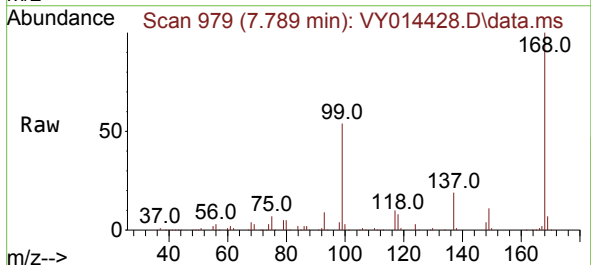
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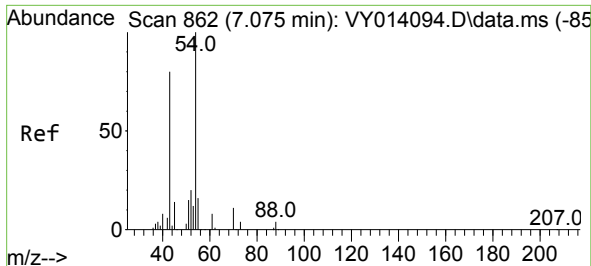
Tgt Ion:113 Resp: 76310
Ion Ratio Lower Upper
113 100
111 100.7 81.3 121.9
192 23.2 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.946 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.134 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

Tgt Ion: 75 Resp: 11671
Ion Ratio Lower Upper
75 100
110 9.6 17.8 53.5#
77 0.0 24.4 36.6#

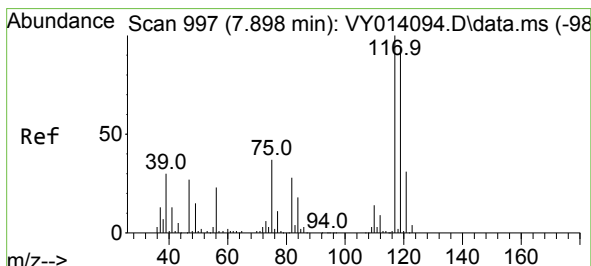
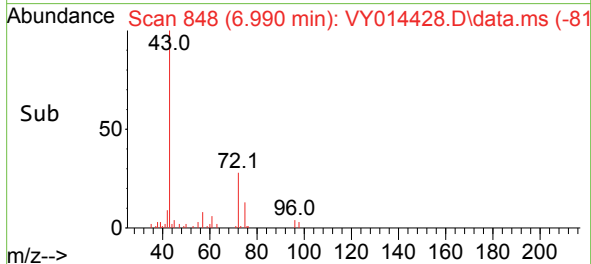
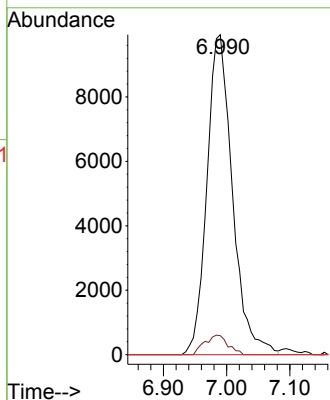
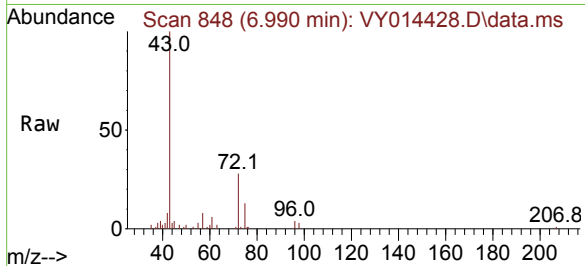




#37
Ethyl Acetate
Concen: 17.126 ug/l
RT: 6.990 min Scan# 84
Delta R.T. -0.085 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

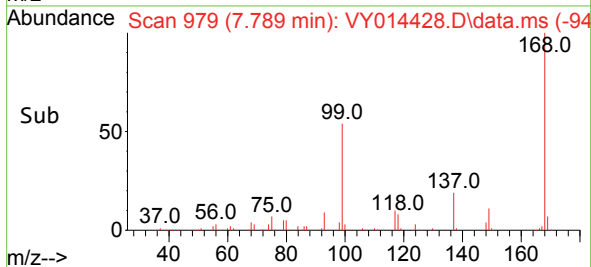
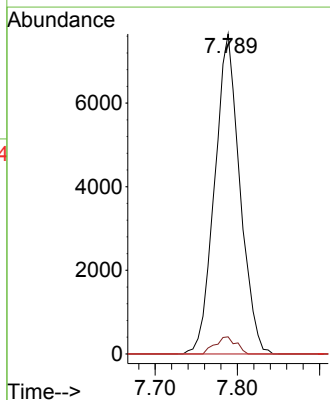
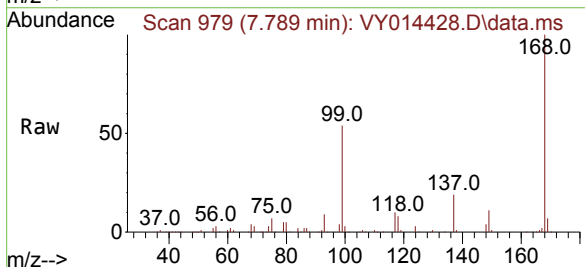
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-07-5N-4

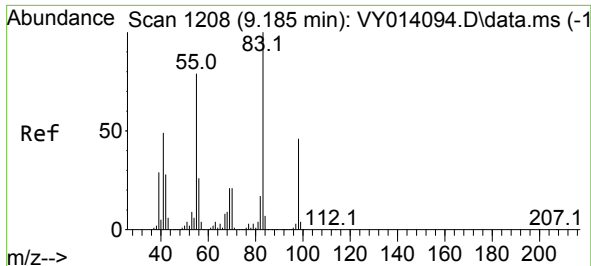
Tgt Ion: 43 Resp: 27853
Ion Ratio Lower Upper
43 100
61 5.6 10.1 15.1#
70 0.0 7.1 10.7#



#38
Carbon Tetrachloride
Concen: 5.486 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.109 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

Tgt Ion: 117 Resp: 16293
Ion Ratio Lower Upper
117 100
119 5.4 76.4 114.6#
121 0.0 25.8 38.6#

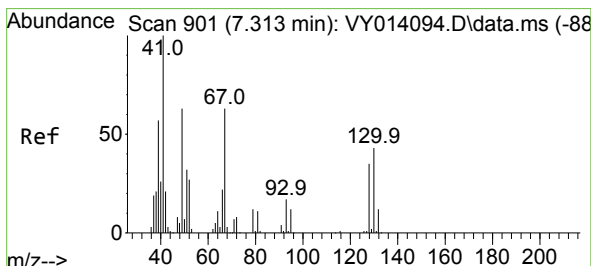
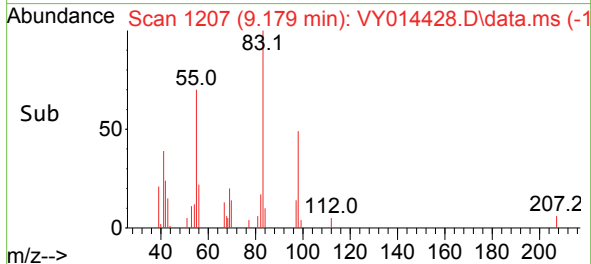
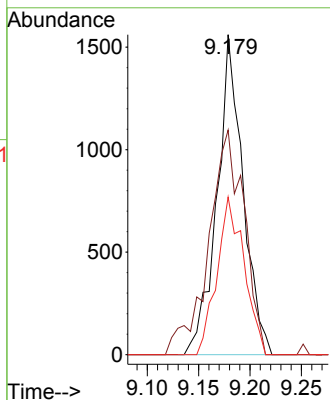
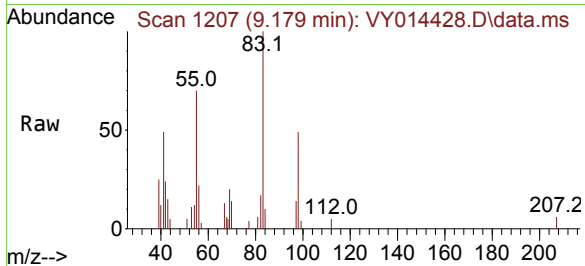




#39
Methylcyclohexane
Concen: 1.010 ug/l
RT: 9.179 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

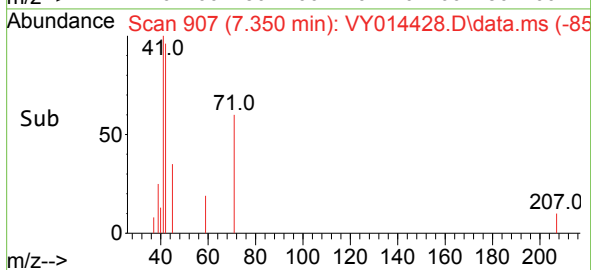
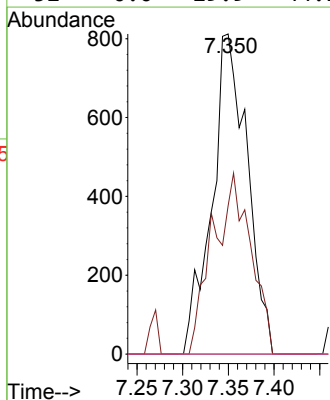
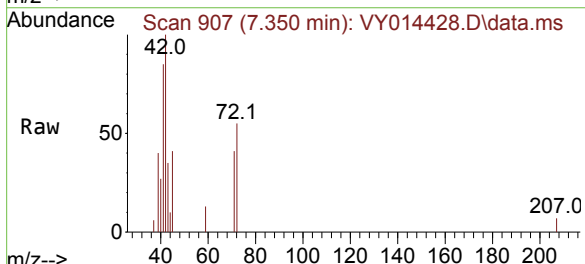
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-07-5N-4

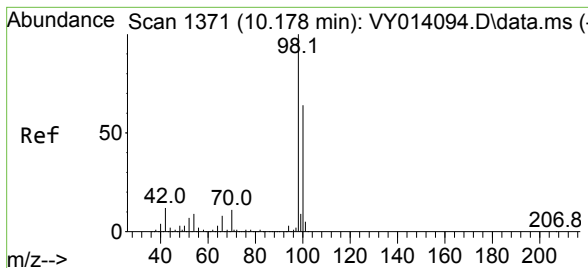
Tgt Ion:	83	Resp:	2743
Ion	Ratio	Lower	Upper
83	100		
55	70.2	63.0	94.4
98	49.3	37.4	56.2



#41
Methacrylonitrile
Concen: 2.713 ug/l
RT: 7.350 min Scan# 907
Delta R.T. 0.037 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

Tgt Ion:	41	Resp:	2187
Ion	Ratio	Lower	Upper
41	100		
39	61.0	52.1	78.1
67	0.0	66.2	99.2#
52	0.0	29.9	44.9#

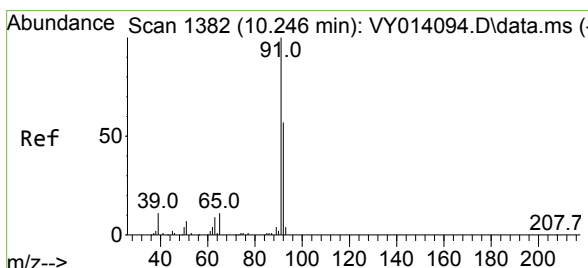
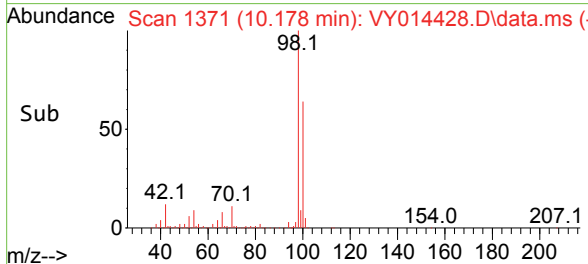
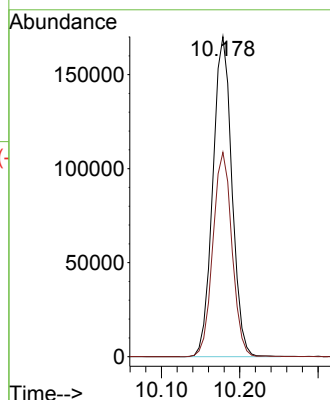
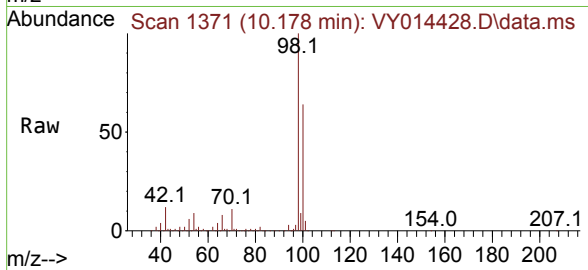




#50
Toluene-d8
Concen: 47.371 ug/l
RT: 10.178 min Scan# 1371
Delta R.T. 0.000 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

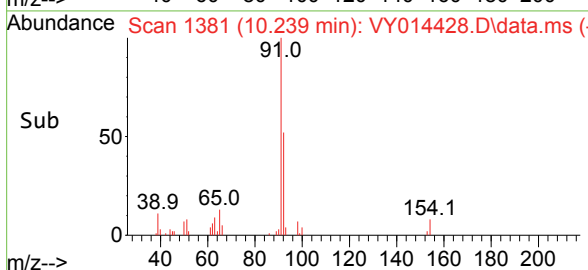
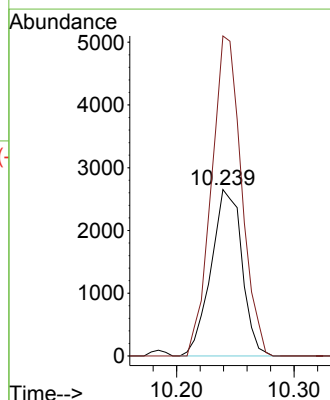
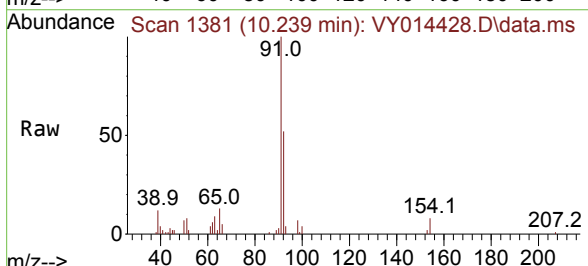
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-07-5N-4

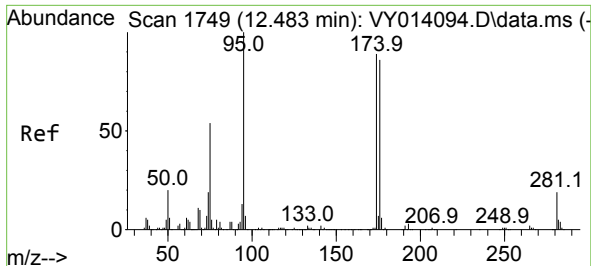
Tgt Ion: 98 Resp: 288369
Ion Ratio Lower Upper
98 100
100 63.7 50.1 75.1



#52
Toluene
Concen: 1.128 ug/l
RT: 10.239 min Scan# 1381
Delta R.T. -0.007 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

Tgt Ion: 92 Resp: 4851
Ion Ratio Lower Upper
92 100
91 186.8 143.8 215.6

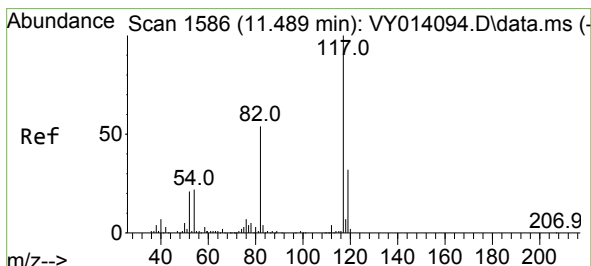
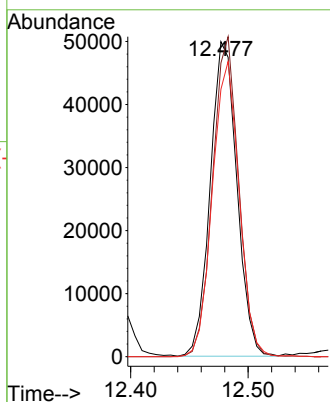
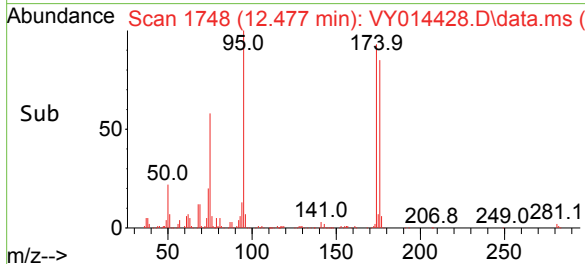
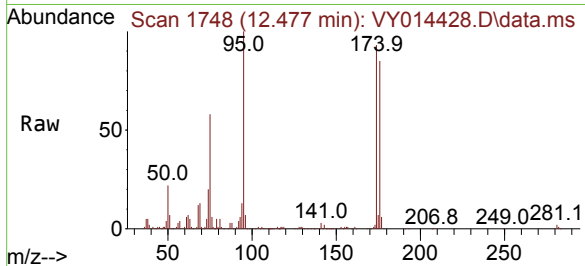




#62
4-Bromofluorobenzene
Concen: 36.219 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

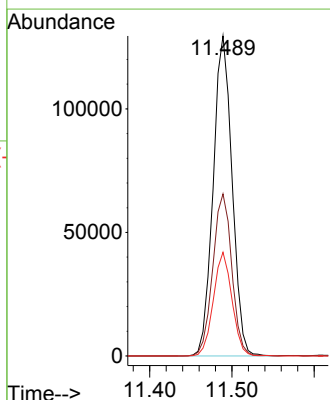
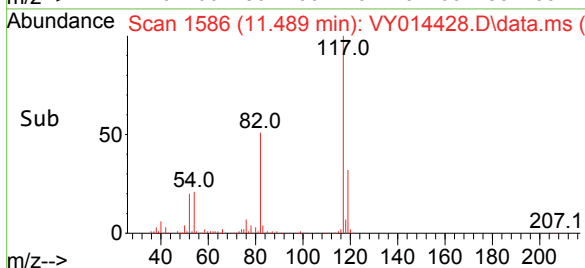
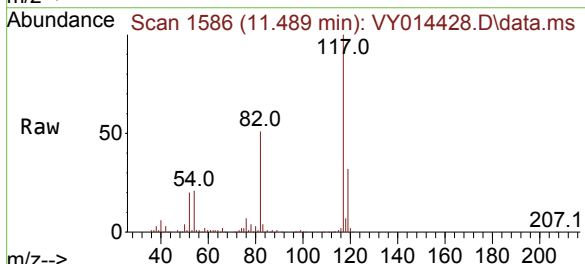
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-07-5N-4

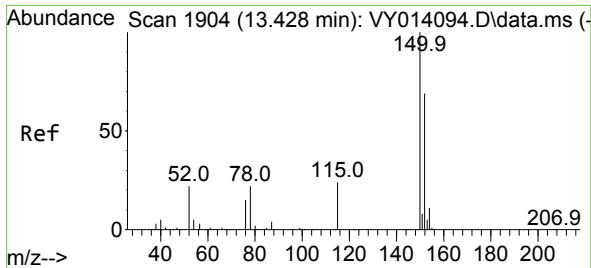
Tgt Ion: 95 Resp: 78713
Ion Ratio Lower Upper
95 100
174 99.3 0.0 178.2
176 94.2 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

Tgt Ion: 117 Resp: 207395
Ion Ratio Lower Upper
117 100
82 50.7 43.4 65.0
119 32.4 26.3 39.5

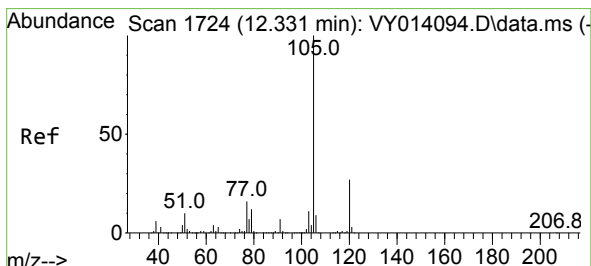
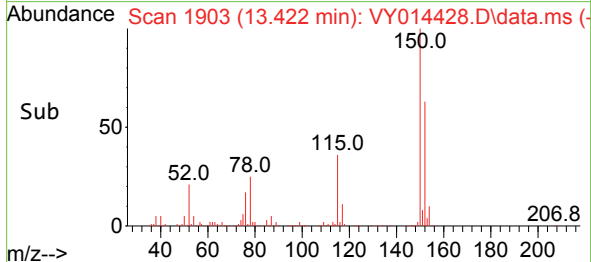
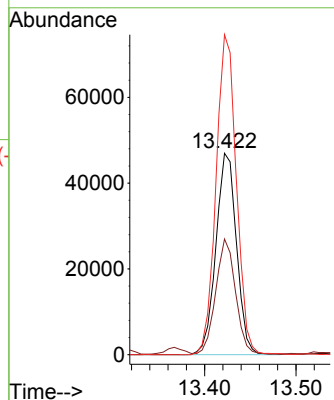
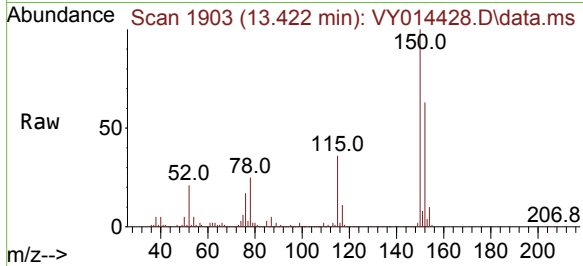




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1904
Delta R.T. -0.006 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

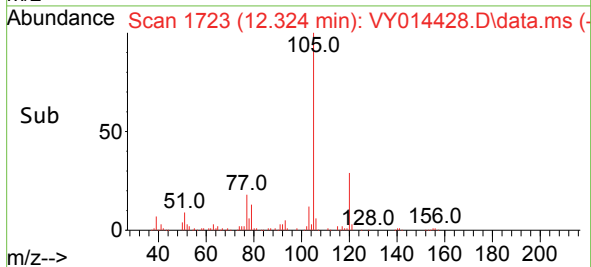
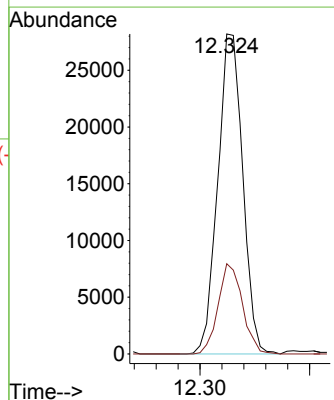
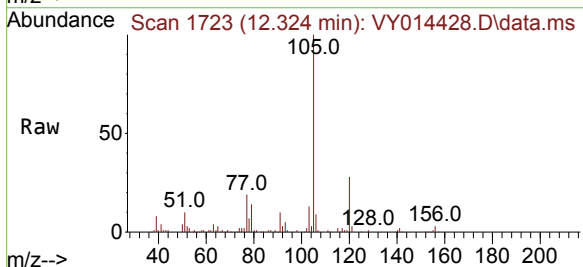
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-07-5N-4

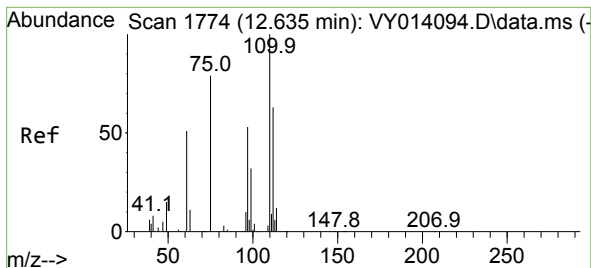
Tgt Ion:152 Resp: 73708
Ion Ratio Lower Upper
152 100
115 54.9 28.8 86.5
150 156.5 0.0 348.8



#73
Isopropylbenzene
Concen: 8.999 ug/l
RT: 12.324 min Scan# 1723
Delta R.T. -0.007 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

Tgt Ion:105 Resp: 44666
Ion Ratio Lower Upper
105 100
120 27.4 13.3 39.9





#76

1,2,3-Trichloropropane

Concen: 49.589 ug/l

RT: 12.477 min Scan# 1

Delta R.T. -0.158 min

Lab File: VY014428.D

Acq: 26 Jun 2023 12:56

Instrument :

MSVOA_Y

ClientSampleId :

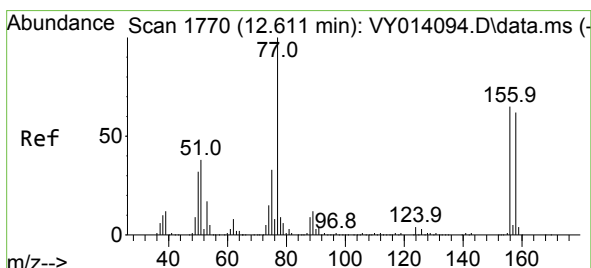
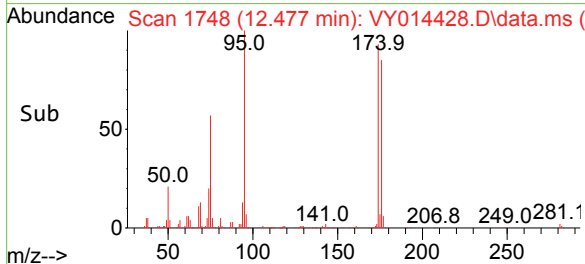
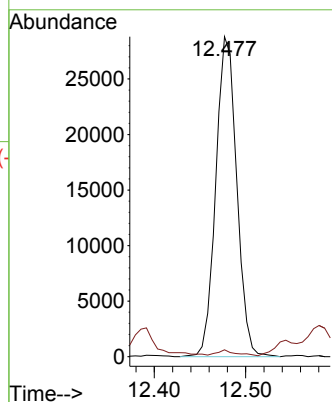
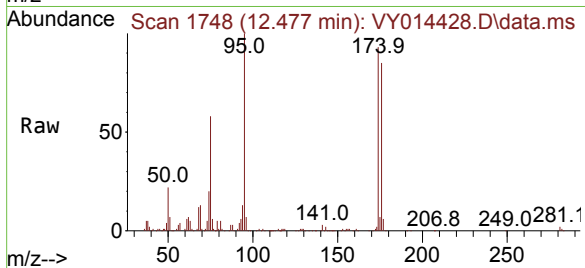
TOTAL-VOC-TP6-07-5N-4

Tgt Ion: 75 Resp: 45850

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#77

Bromobenzene

Concen: 5.879 ug/l

RT: 12.416 min Scan# 1738

Delta R.T. -0.195 min

Lab File: VY014428.D

Acq: 26 Jun 2023 12:56

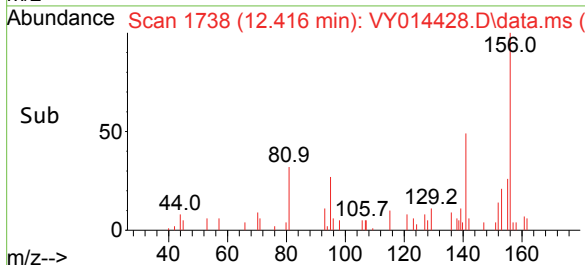
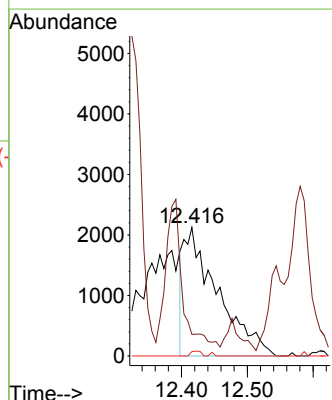
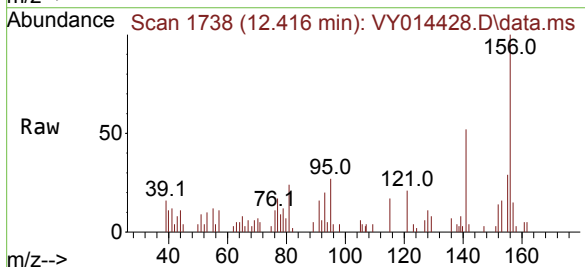
Tgt Ion: 156 Resp: 7587

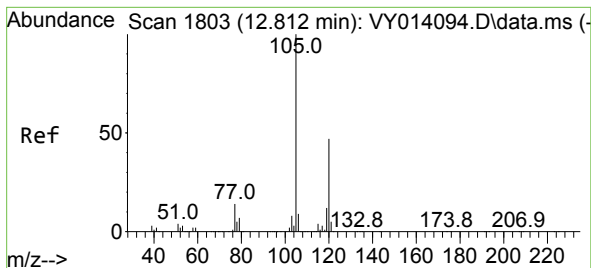
Ion Ratio Lower Upper

156 100

77 0.0 92.8 278.6#

158 1.1 48.4 145.3#





#80

1,3,5-Trimethylbenzene

Concen: 1.446 ug/l

RT: 12.812 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY014428.D

Acq: 26 Jun 2023 12:56

Instrument :

MSVOA_Y

ClientSampleId :

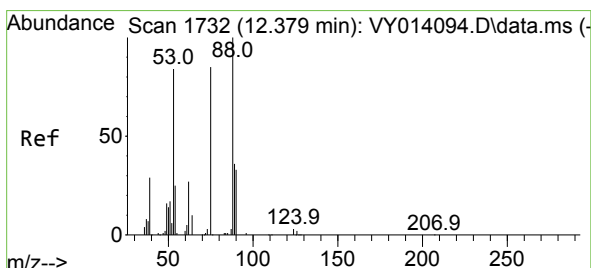
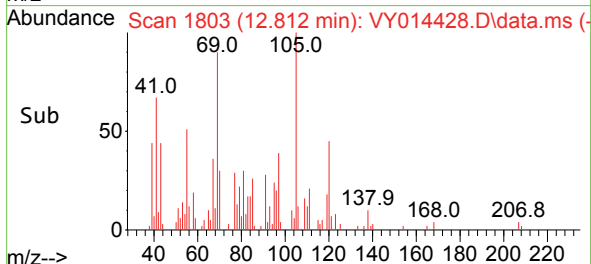
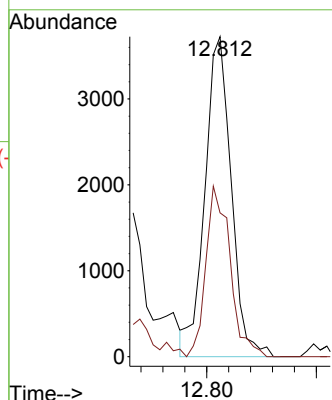
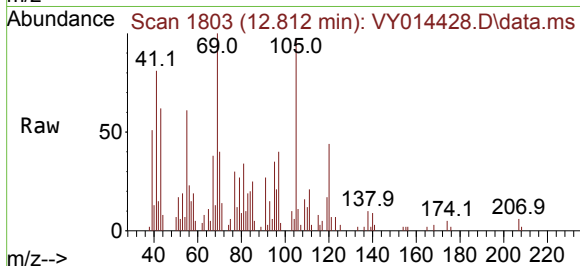
TOTAL-VOC-TP6-07-5N-4

Tgt Ion:105 Resp: 6207

Ion Ratio Lower Upper

105 100

120 49.0 23.9 71.7



#81

trans-1,4-Dichloro-2-butene

Concen: 112.897 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.098 min

Lab File: VY014428.D

Acq: 26 Jun 2023 12:56

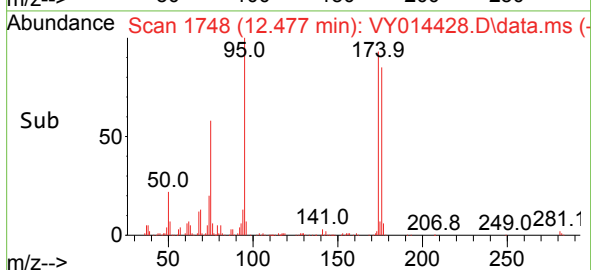
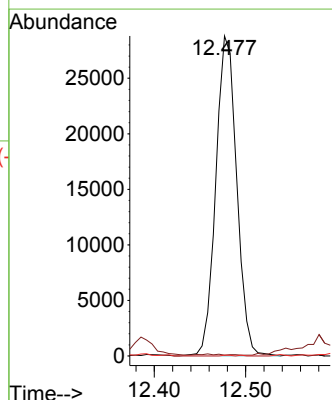
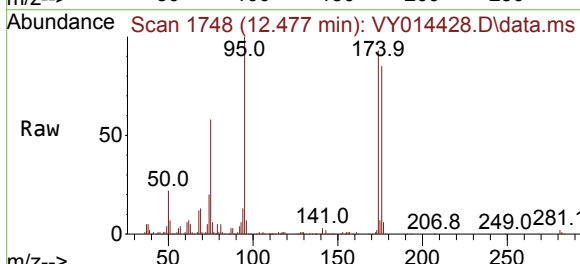
Tgt Ion: 75 Resp: 45850

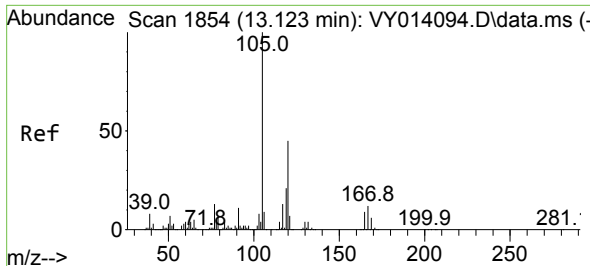
Ion Ratio Lower Upper

75 100

53 0.4 77.8 116.8#

89 0.2 37.4 56.0#

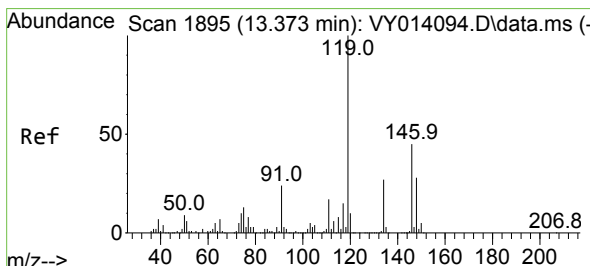
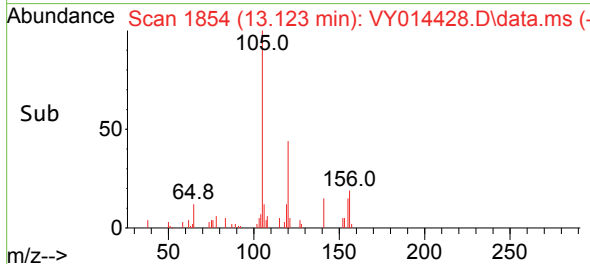
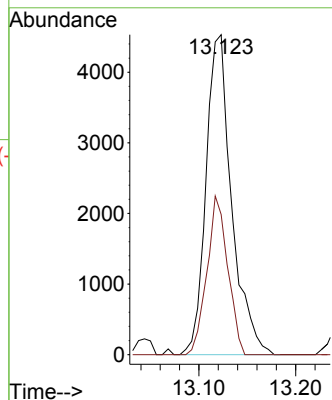
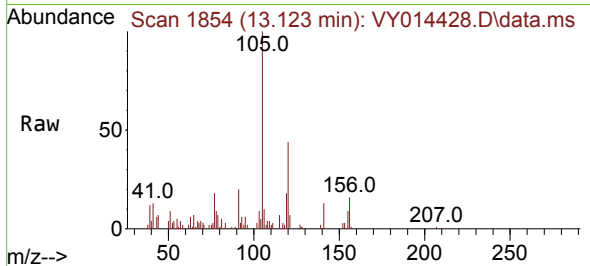




#84
 1,2,4-Trimethylbenzene
 Concen: 1.965 ug/l
 RT: 13.123 min Scan# 1854
 Delta R.T. -0.000 min
 Lab File: VY014428.D
 Acq: 26 Jun 2023 12:56

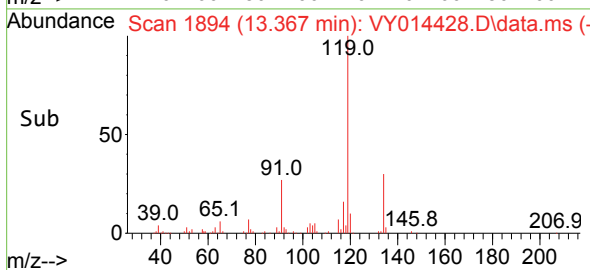
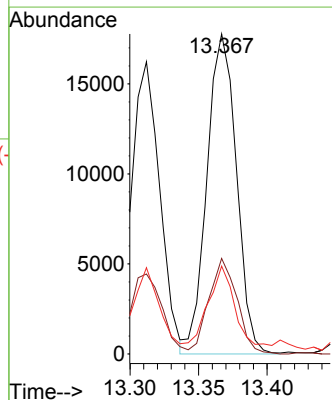
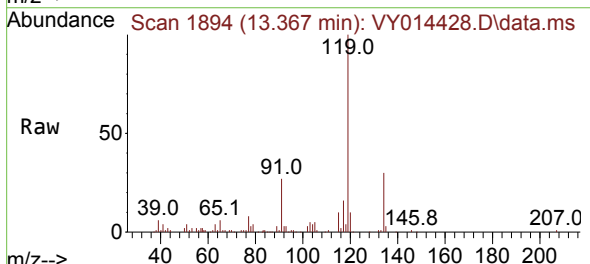
Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-TP6-07-5N-4

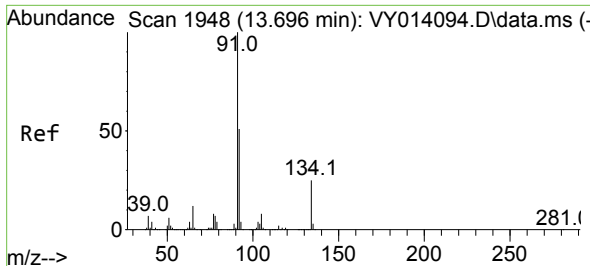
Tgt Ion:105 Resp: 8359
 Ion Ratio Lower Upper
 105 100
 120 40.2 22.2 66.6



#86
 p-Isopropyltoluene
 Concen: 5.779 ug/l
 RT: 13.367 min Scan# 1894
 Delta R.T. -0.006 min
 Lab File: VY014428.D
 Acq: 26 Jun 2023 12:56

Tgt Ion:119 Resp: 26634
 Ion Ratio Lower Upper
 119 100
 134 28.4 13.3 39.8
 91 22.1 12.4 37.4

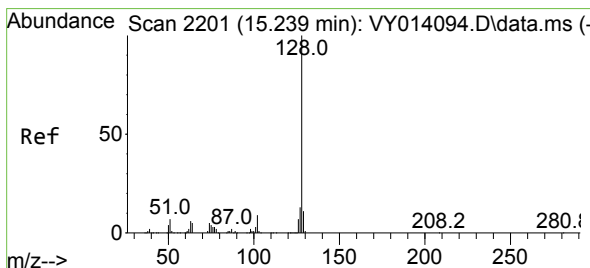
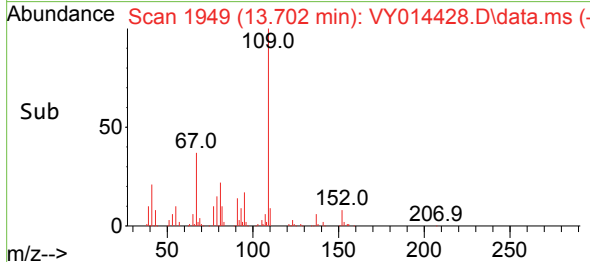
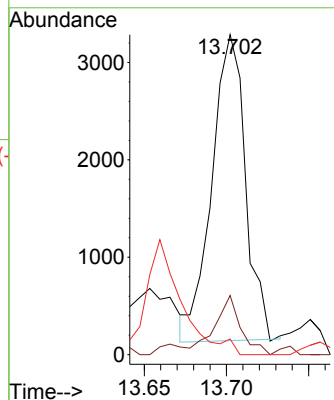
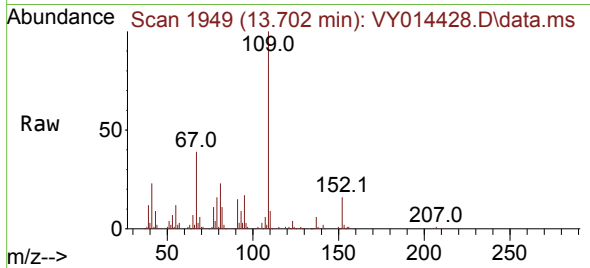




#89
n-Butylbenzene
Concen: 1.061 ug/l
RT: 13.702 min Scan# 1949
Delta R.T. 0.006 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-TP6-07-5N-4

Tgt Ion: 91 Resp: 4466
Ion Ratio Lower Upper
91 100
92 14.9 25.4 76.0#
134 0.0 12.6 37.6#



#95
Naphthalene
Concen: 10.895 ug/l
RT: 15.232 min Scan# 2200
Delta R.T. -0.007 min
Lab File: VY014428.D
Acq: 26 Jun 2023 12:56

Tgt Ion: 128 Resp: 34582
Ion Ratio Lower Upper
128 100
127 14.3 10.8 16.2
129 11.9 8.6 13.0

