

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY061623\
 Data File : VY014219.D
 Acq On : 16 Jun 2023 21:28
 Operator : KP/MD
 Sample : 03224-16RE
 Misc : 5.32g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-SB-15-GRAB-6RE

Quant Time: Jun 16 23:27:40 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)

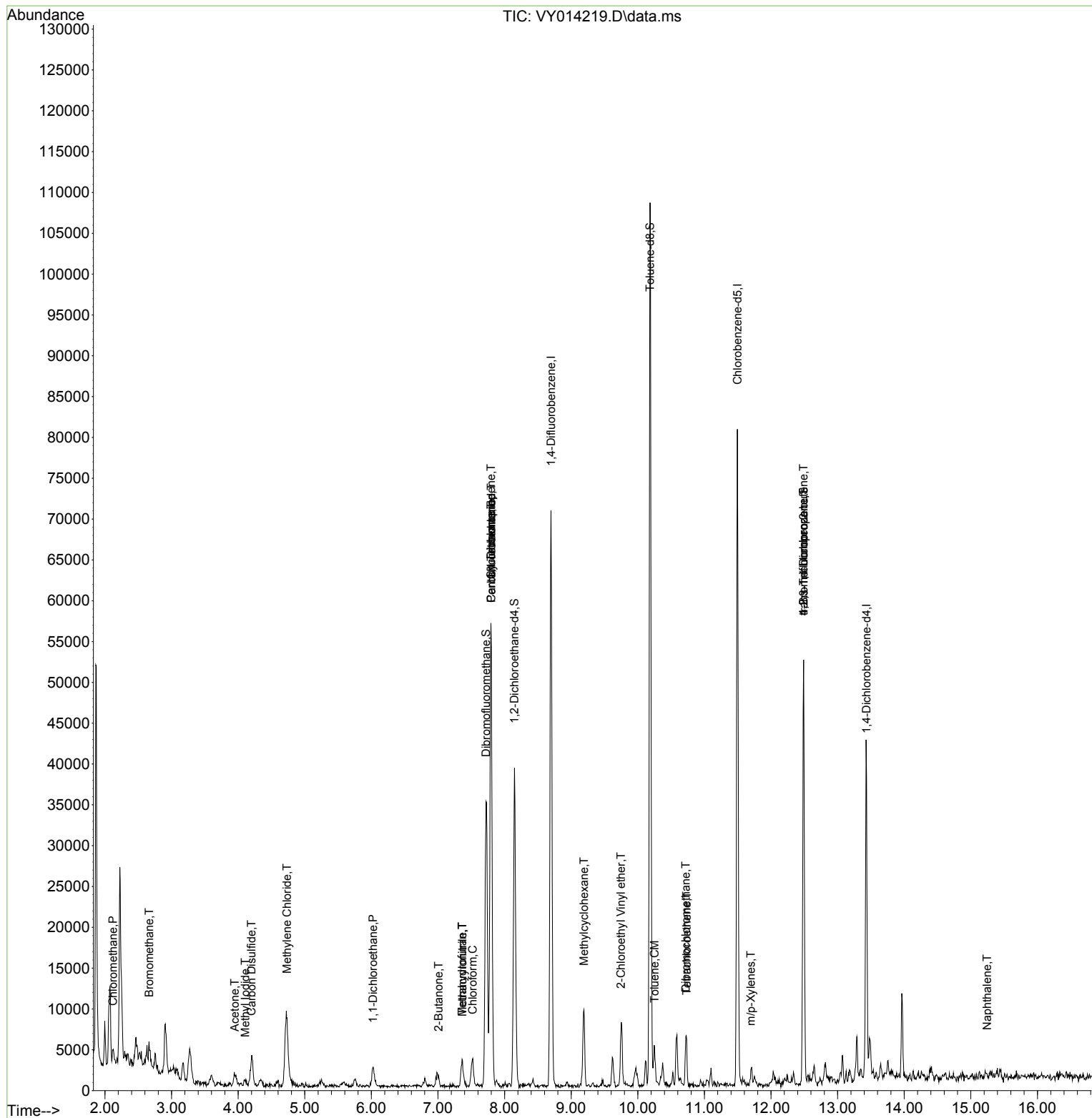
Internal Standards						
1) Pentafluorobenzene	7.801	168	40770	50.000	ug/l	0.01
34) 1,4-Difluorobenzene	8.697	114	59184	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.495	117	43300	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.434	152	10808	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	30752	54.167	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 108.340%	
35) Dibromofluoromethane	7.722	113	24942	59.425	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 118.860%	
50) Toluene-d8	10.185	98	71125	45.327	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 90.660%	
62) 4-Bromofluorobenzene	12.489	95	12421	22.283	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 44.560%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.119	50	1968	3.416	ug/l	94
5) Bromomethane	2.662	94	1374	2.973	ug/l #	79
10) Methyl Iodide	4.107	142	1184	1.952	ug/l #	92
11) Tert butyl alcohol	4.966	59	178	Below Cal	#	89
13) Acrolein	3.930	56	23	Below Cal	#	14
16) Acetone	3.948	43	1934	11.301	ug/l #	75
17) Carbon Disulfide	4.198	76	7232	4.794	ug/l #	88
20) Methylene Chloride	4.734	84	6091	8.148	ug/l	91
24) 1,1-Dichloroethane	6.027	63	3471	3.726	ug/l #	84
25) 2-Butanone	7.008	43	378	1.794	ug/l #	49
29) Tetrahydrofuran	7.362	42	2405	18.004	ug/l	99
30) Chloroform	7.521	83	2838	2.872	ug/l	99
31) Cyclohexane	7.795	56	2685	3.530	ug/l #	61
36) 1,1-Dichloropropene	7.795	75	3146	4.808	ug/l #	49
38) Carbon Tetrachloride	7.801	117	3963	5.248	ug/l #	19
39) Methylcyclohexane	9.191	83	3424	4.716	ug/l	92
41) Methacrylonitrile	7.368	41	1516	6.579	ug/l #	29
52) Toluene	10.252	92	1939	1.608	ug/l	85
58) 2-Chloroethyl Vinyl ether	9.746	63	28	28.719	ug/l #	48
60) Dibromochloromethane	10.721	129	1341	2.597	ug/l #	11
64) Tetrachloroethene	10.733	164	1459	3.953	ug/l #	80
68) m/p-Xylenes	11.697	106	744	1.062	ug/l	85
76) 1,2,3-Trichloropropane	12.489	75	6642	46.841	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.489	75	6642	101.252	ug/l #	10
95) Naphthalene	15.245	128	769	1.609	ug/l #	79

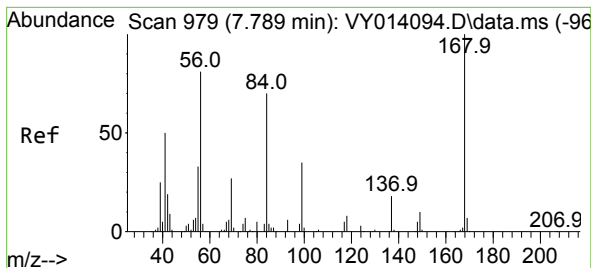
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.801 min Scan# 9

Delta R.T. 0.012 min

Lab File: VY014219.D

Acq: 16 Jun 2023 21:28

Instrument :

MSVOA_Y

ClientSampleId :

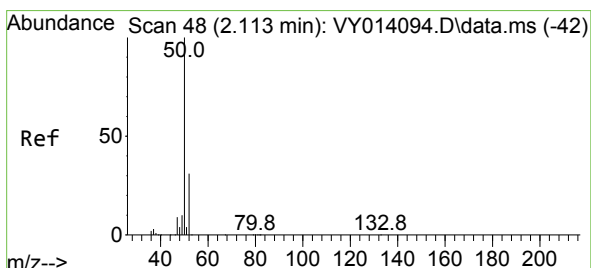
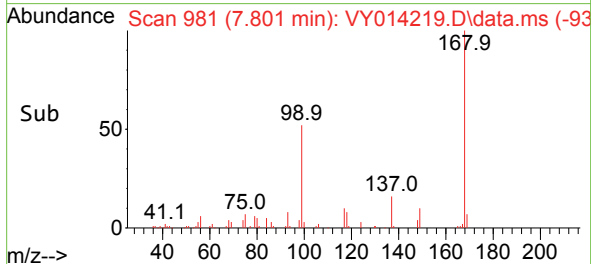
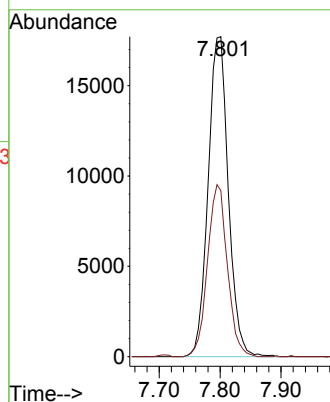
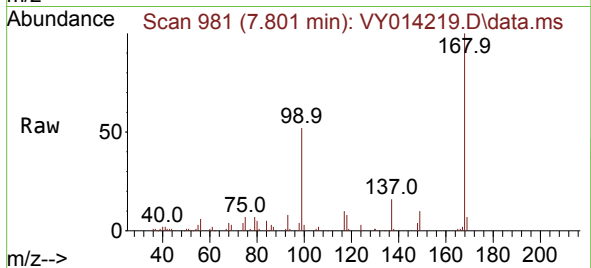
TOTAL-VOC-SB-15-GRAB-6RE

Tgt Ion:168 Resp: 40770

Ion Ratio Lower Upper

168 100

99 51.9 43.4 65.0



#3

Chloromethane

Concen: 3.416 ug/l

RT: 2.119 min Scan# 49

Delta R.T. 0.006 min

Lab File: VY014219.D

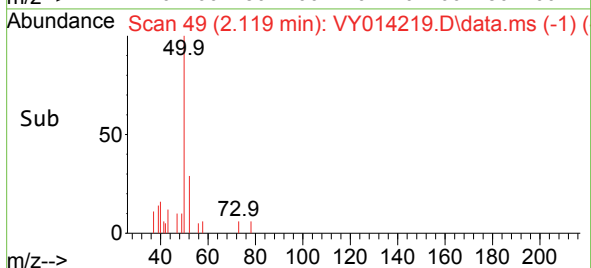
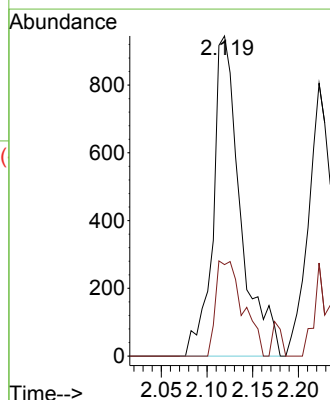
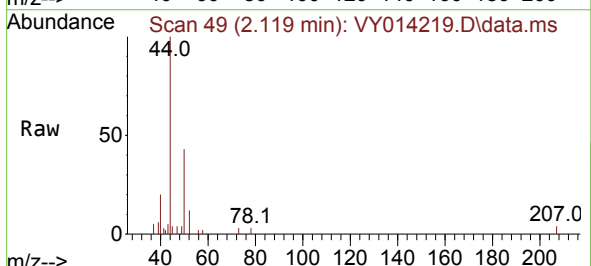
Acq: 16 Jun 2023 21:28

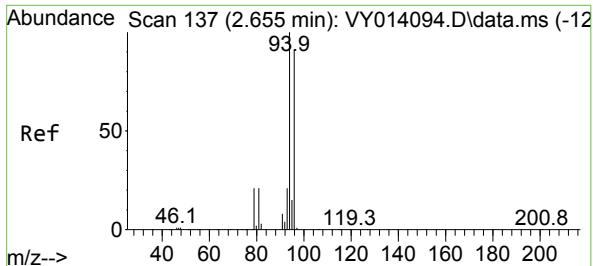
Tgt Ion: 50 Resp: 1968

Ion Ratio Lower Upper

50 100

52 28.6 25.4 38.2

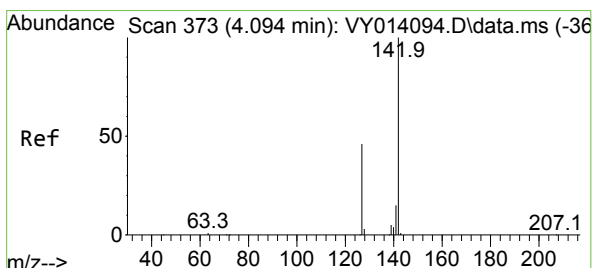
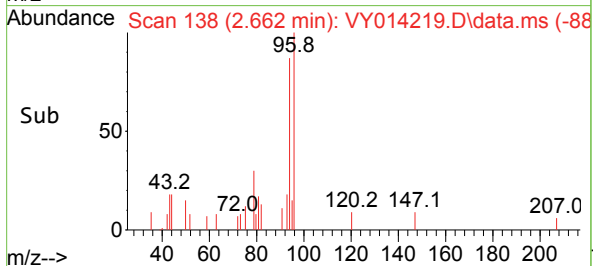
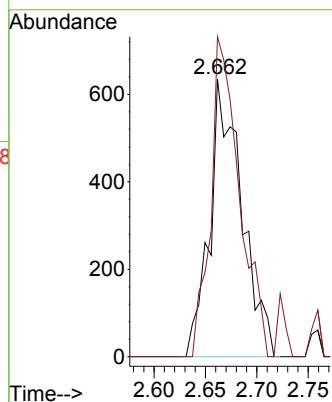
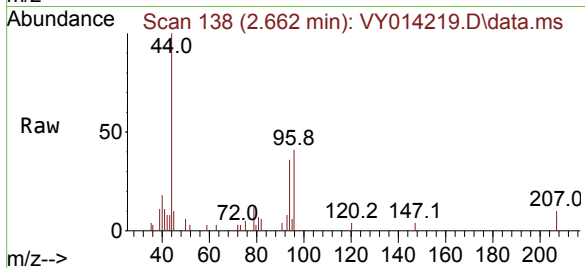




#5
Bromomethane
Concen: 2.973 ug/l
RT: 2.662 min Scan# 11
Delta R.T. 0.007 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

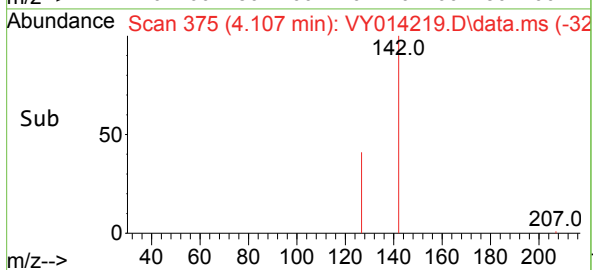
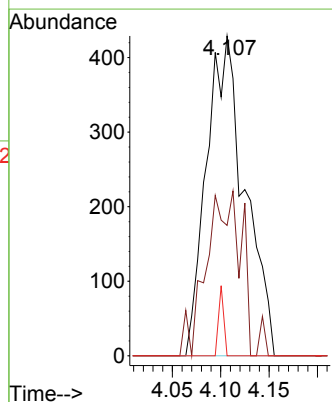
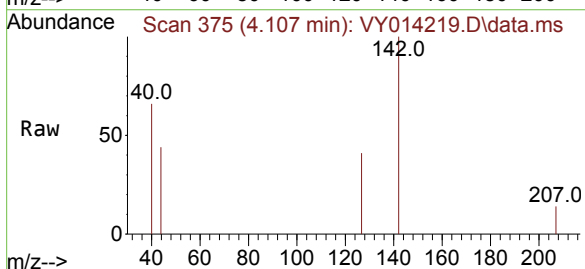
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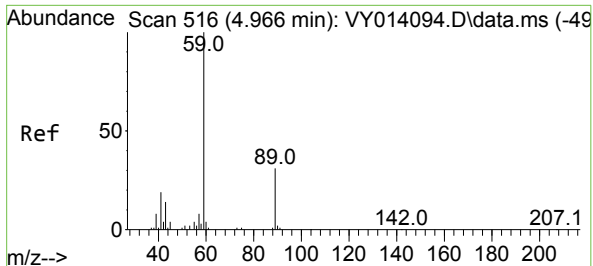
Tgt Ion: 94 Resp: 1374
Ion Ratio Lower Upper
94 100
96 115.3 75.8 113.6#



#10
Methyl Iodide
Concen: 1.952 ug/l
RT: 4.107 min Scan# 375
Delta R.T. 0.013 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

Tgt Ion:142 Resp: 1184
Ion Ratio Lower Upper
142 100
127 46.3 37.6 56.4
141 2.9 11.8 17.8#

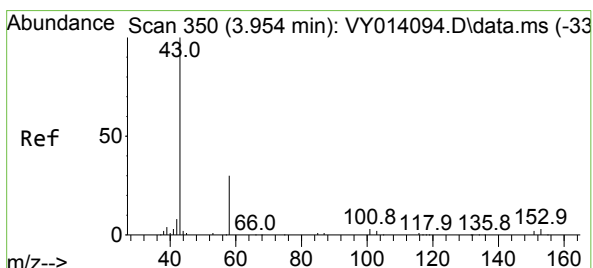
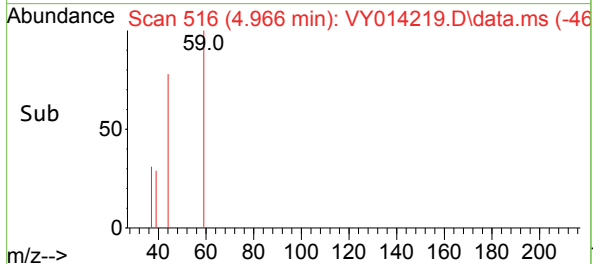
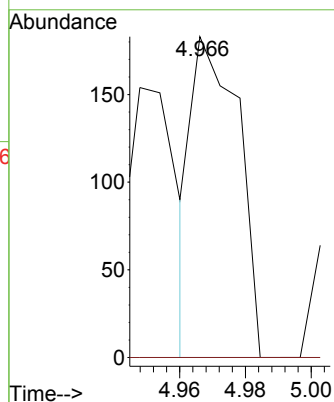
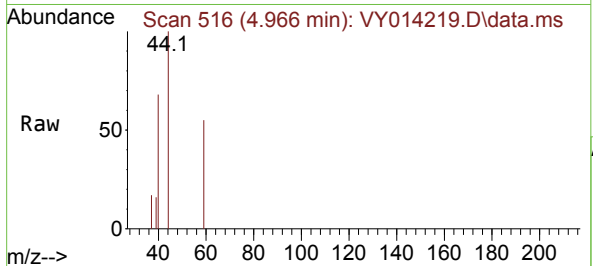




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.966 min Scan# 516
Delta R.T. 0.000 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

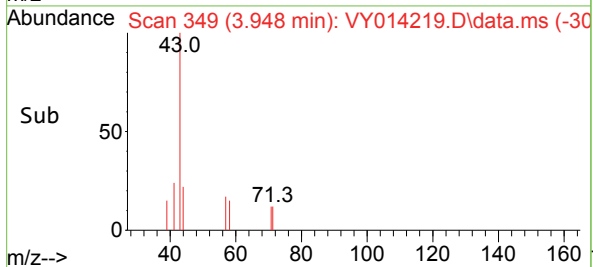
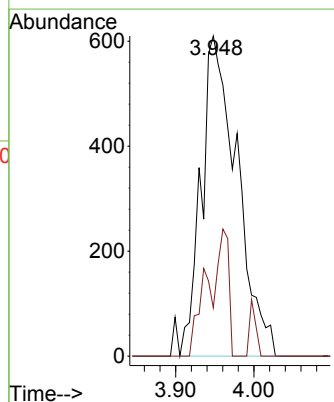
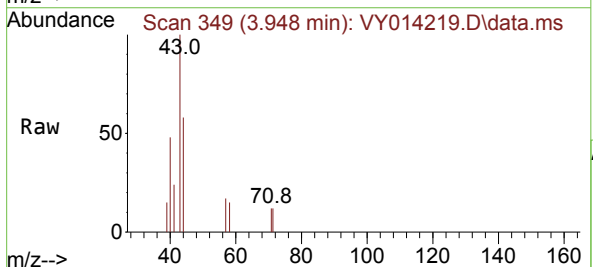
Instrument : MSVOA_Y
ClientSampleId : TOTAL-VOC-SB-15-GRAB-6RE

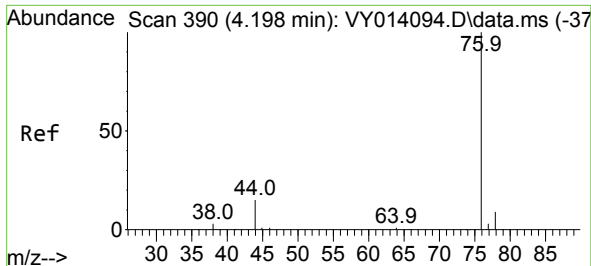
Tgt Ion: 59 Resp: 178
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#16
Acetone
Concen: 11.301 ug/l
RT: 3.948 min Scan# 349
Delta R.T. -0.006 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

Tgt Ion: 43 Resp: 1934
Ion Ratio Lower Upper
43 100
58 15.1 22.7 34.1#

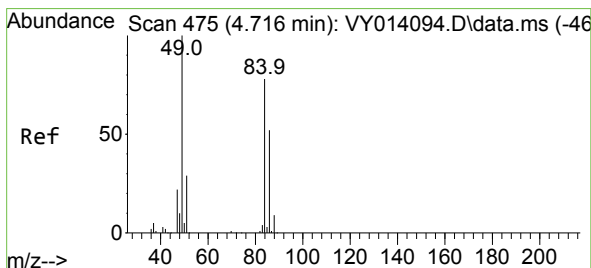
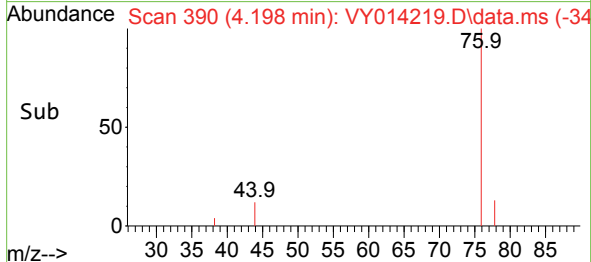
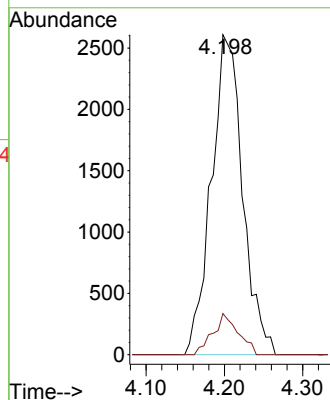
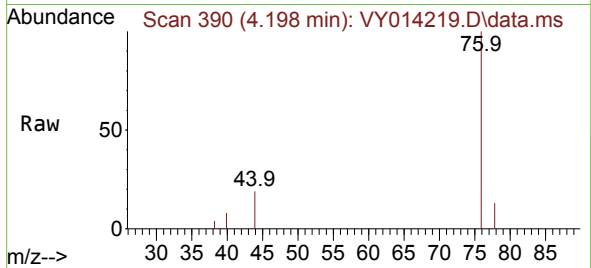




#17
Carbon Disulfide
Concen: 4.794 ug/l
RT: 4.198 min Scan# 390
Delta R.T. 0.000 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

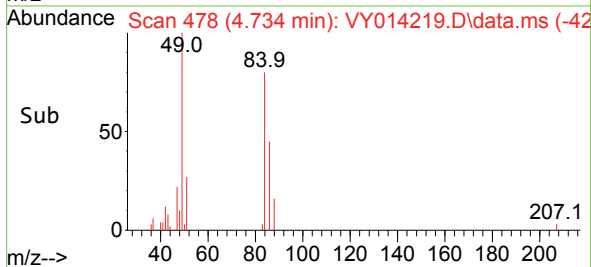
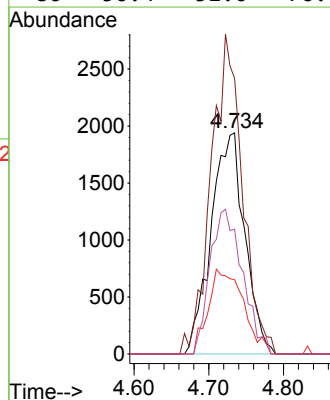
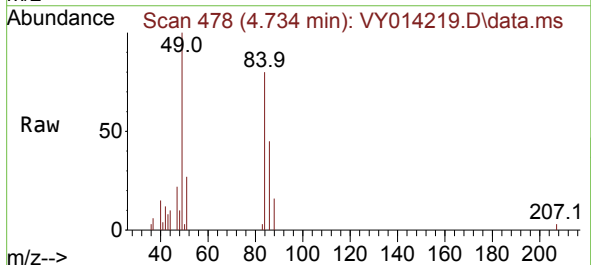
Instrument :
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ClientSampleId :
TOTAL-VOC-SB-15-GRAB-6RE

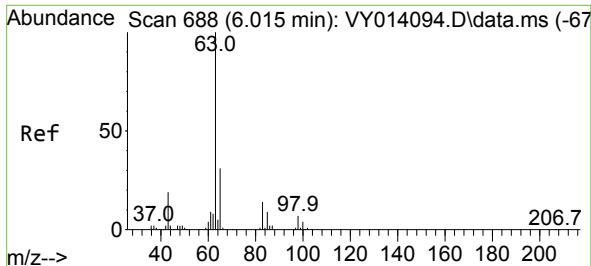
Tgt Ion: 76 Resp: 7232
Ion Ratio Lower Upper
76 100
78 12.8 7.0 10.4#



#20
Methylene Chloride
Concen: 8.148 ug/l
RT: 4.734 min Scan# 478
Delta R.T. 0.018 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

Tgt Ion: 84 Resp: 6091
Ion Ratio Lower Upper
84 100
49 124.6 106.9 160.3
51 33.6 33.2 49.8
86 56.4 51.0 76.6

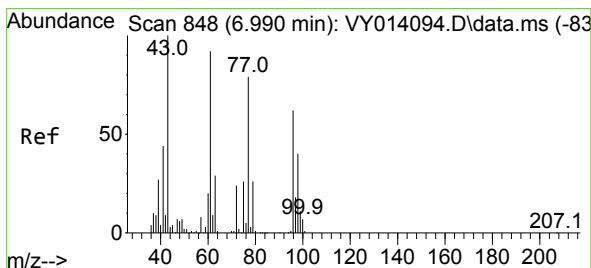
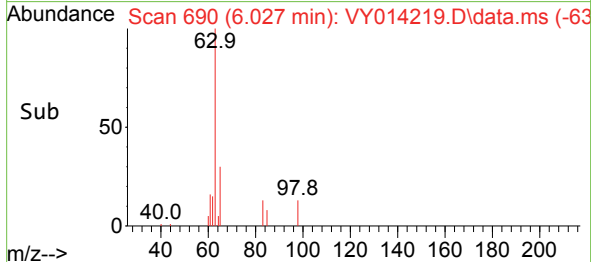
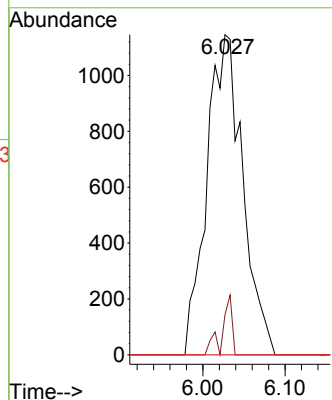
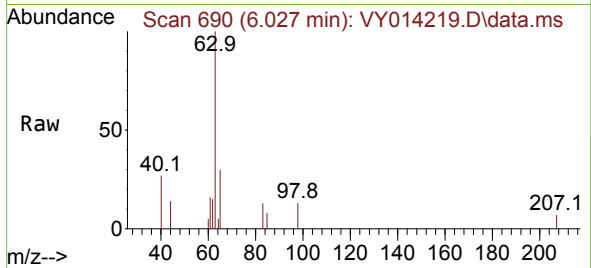




#24
1,1-Dichloroethane
Concen: 3.726 ug/l
RT: 6.027 min Scan# 61
Delta R.T. 0.012 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

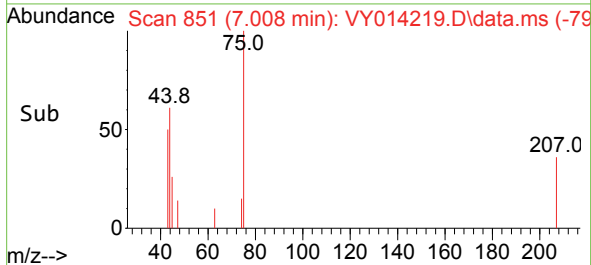
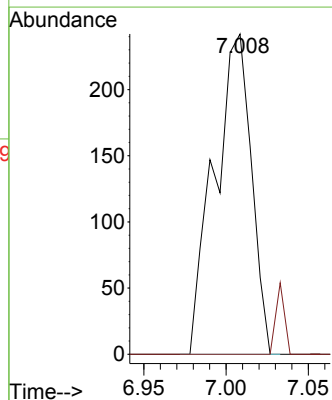
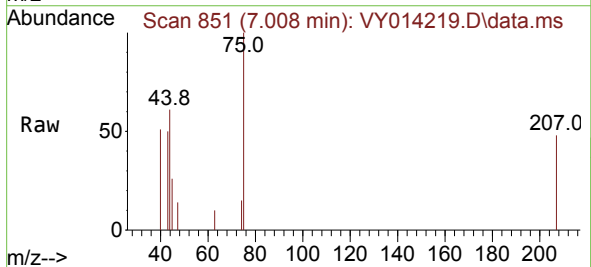
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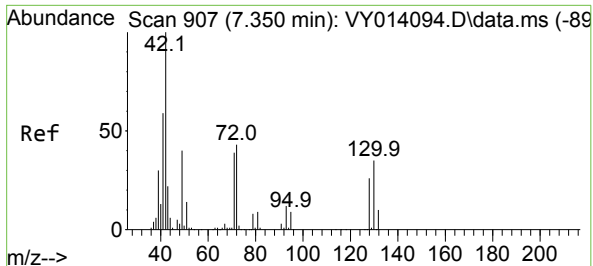
Tgt Ion: 63 Resp: 3471
Ion Ratio Lower Upper
63 100
98 12.6 3.1 9.4#
100 0.0 1.8 5.5#



#25
2-Butanone
Concen: 1.794 ug/l
RT: 7.008 min Scan# 851
Delta R.T. 0.018 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

Tgt Ion: 43 Resp: 378
Ion Ratio Lower Upper
43 100
72 0.0 20.5 30.7#





#29

Tetrahydrofuran

Concen: 18.004 ug/l

RT: 7.362 min Scan# 909

Delta R.T. 0.012 min

Lab File: VY014219.D

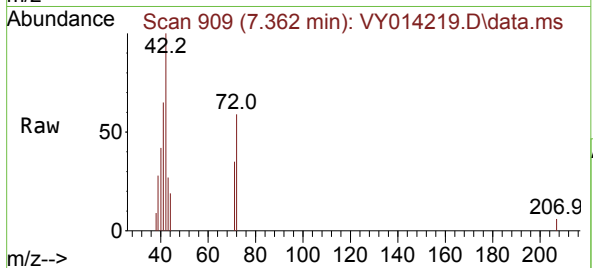
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Instrument :

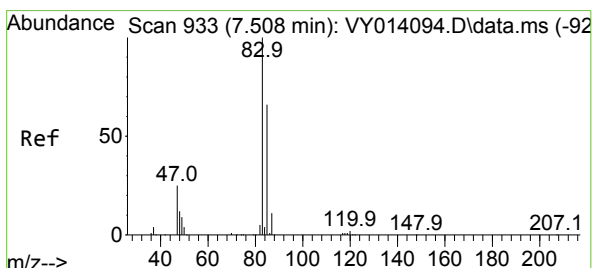
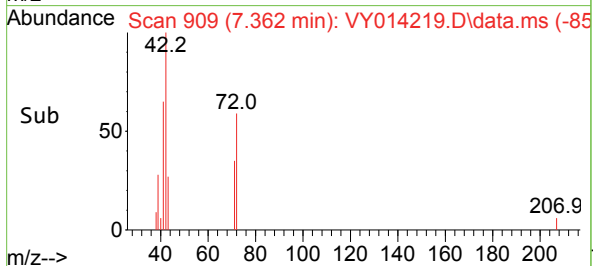
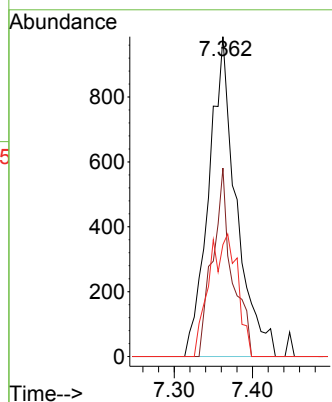
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Tgt Ion:	42	Resp:	2405
Ion	Ratio	Lower	Upper
42	100		
72	41.6	32.8	49.2
71	39.7	31.0	46.4



#30

Chloroform

Concen: 2.872 ug/l

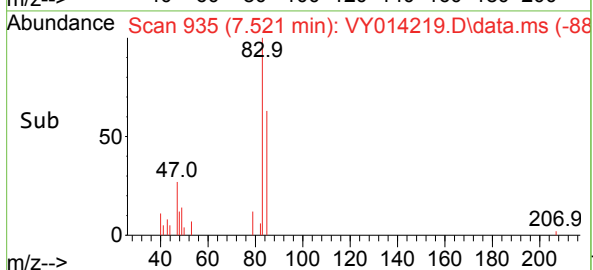
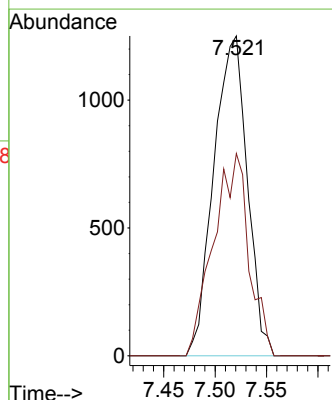
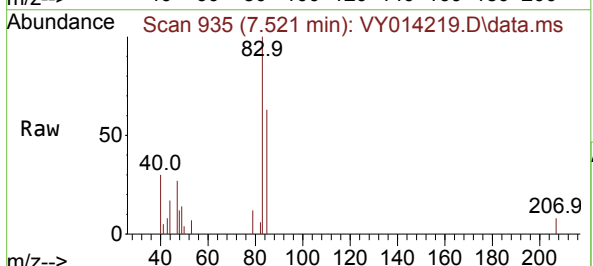
RT: 7.521 min Scan# 935

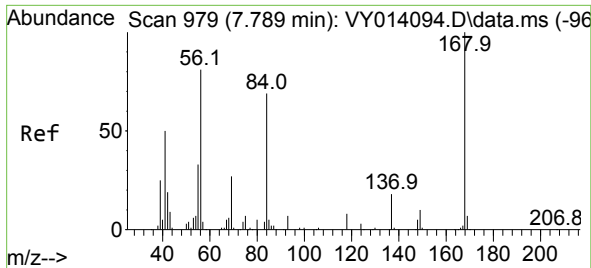
Delta R.T. 0.013 min

Lab File: VY014219.D

Acq: 16 Jun 2023 21:28

Tgt Ion:	83	Resp:	2838
Ion	Ratio	Lower	Upper
83	100		
85	63.2	49.7	74.5

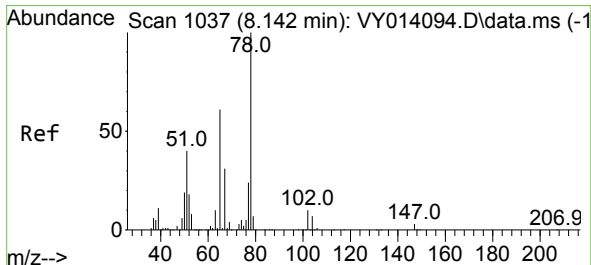
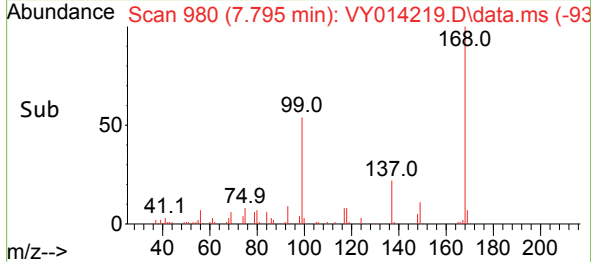
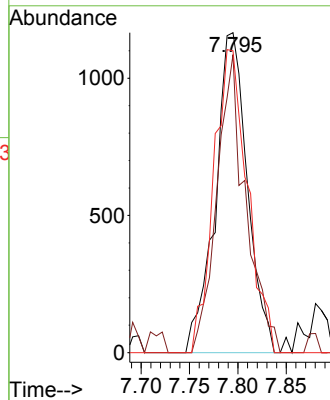
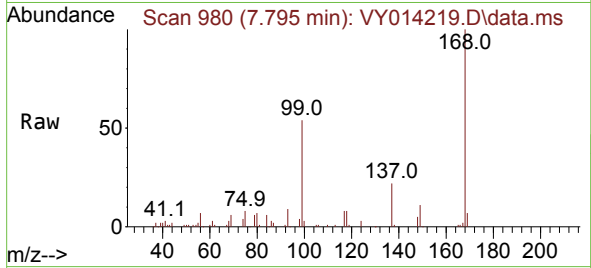




#31
Cyclohexane
Concen: 3.530 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

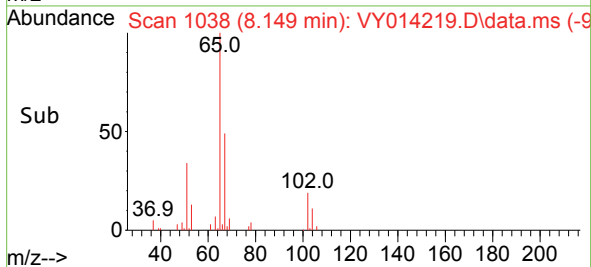
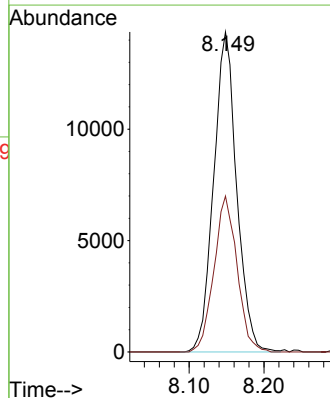
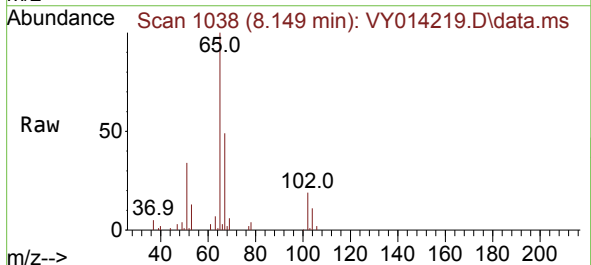
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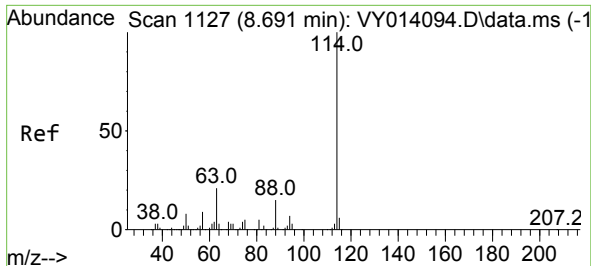
Tgt Ion: 56 Resp: 2685
Ion Ratio Lower Upper
56 100
69 93.1 27.8 41.6#
84 94.3 66.4 99.6



#33
1,2-Dichloroethane-d4
Concen: 54.167 ug/l
RT: 8.149 min Scan# 1038
Delta R.T. 0.007 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

Tgt Ion: 65 Resp: 30752
Ion Ratio Lower Upper
65 100
67 48.8 0.0 101.8

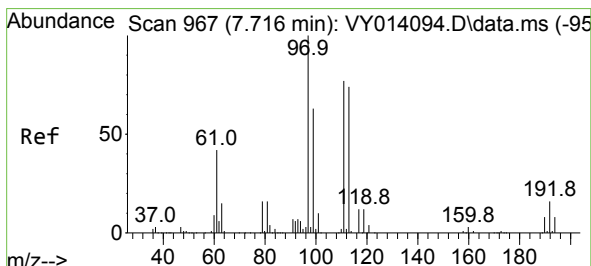
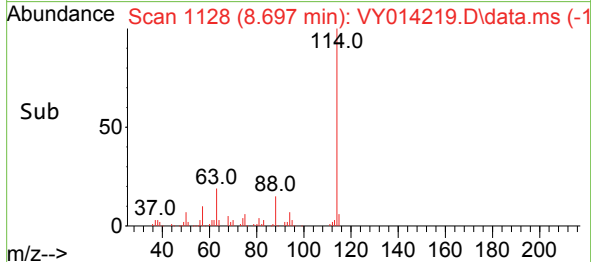
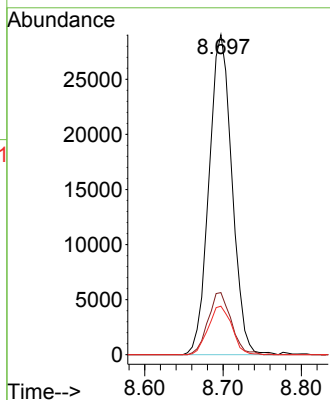
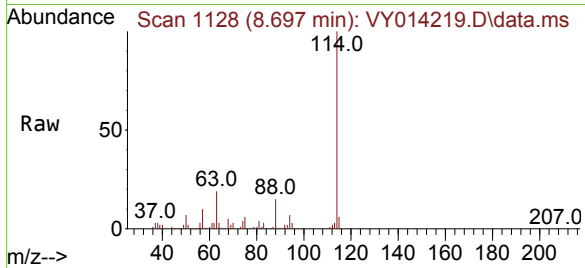




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.697 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

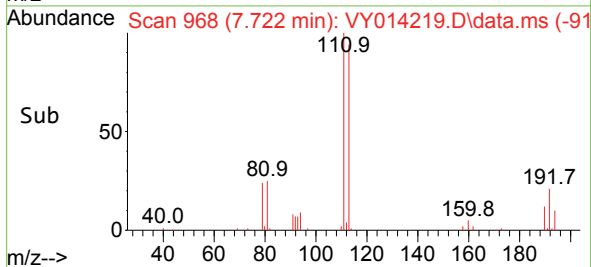
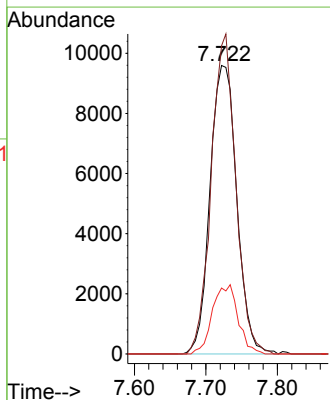
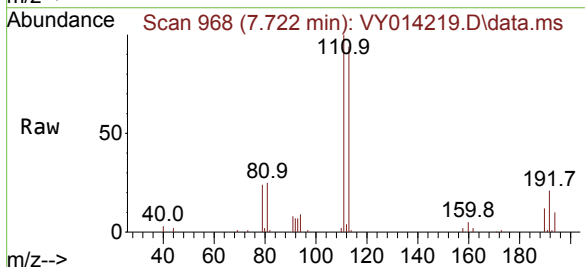
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-15-GRAB-6RE

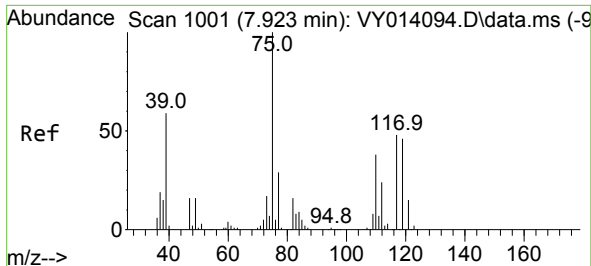
Tgt Ion:114 Resp: 59184
Ion Ratio Lower Upper
114 100
63 19.4 0.0 42.4
88 15.1 0.0 30.6



#35
Dibromofluoromethane
Concen: 59.425 ug/l
RT: 7.722 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

Tgt Ion:113 Resp: 24942
Ion Ratio Lower Upper
113 100
111 102.0 81.3 121.9
192 23.0 16.9 25.3

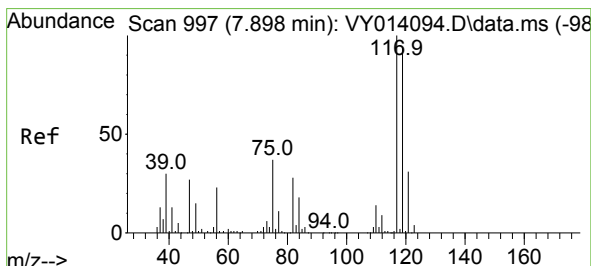
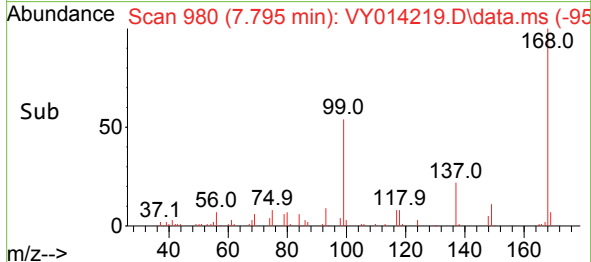
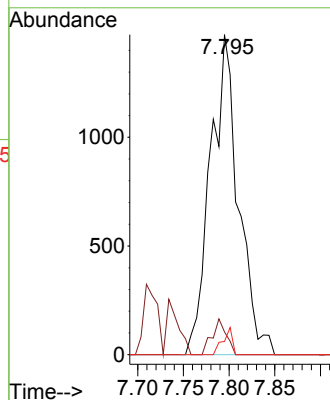
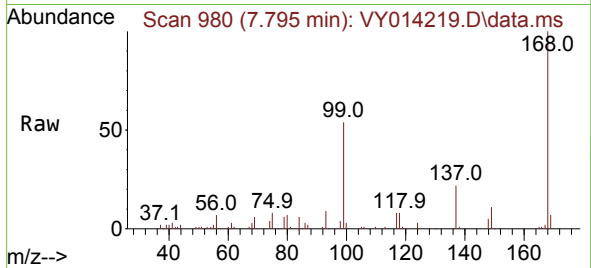




#36
 1,1-Dichloropropene
 Concen: 4.808 ug/l
 RT: 7.795 min Scan# 980
 Delta R.T. -0.128 min
 Lab File: VY014219.D
 Acq: 16 Jun 2023 21:28

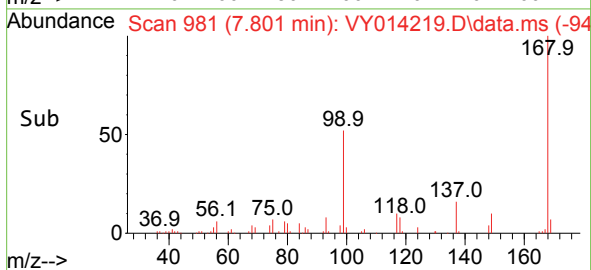
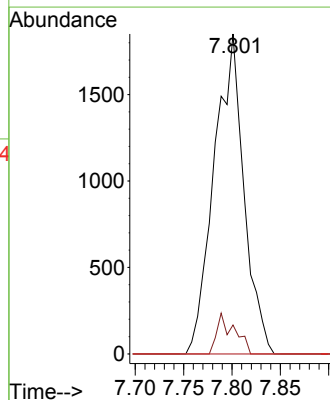
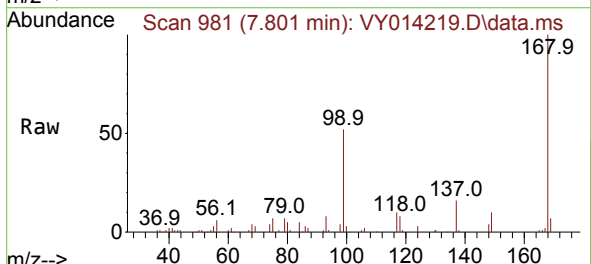
Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-SB-15-GRAB-6RE

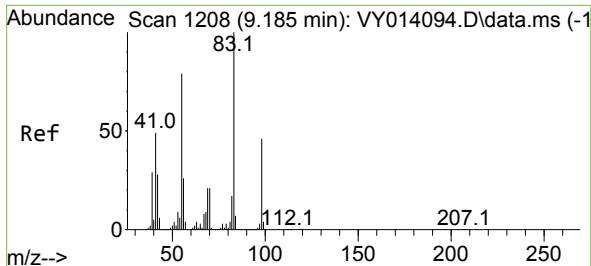
Tgt Ion: 75 Resp: 3146
 Ion Ratio Lower Upper
 75 100
 110 5.7 17.8 53.5#
 77 2.8 24.4 36.6#



#38
 Carbon Tetrachloride
 Concen: 5.248 ug/l
 RT: 7.801 min Scan# 981
 Delta R.T. -0.097 min
 Lab File: VY014219.D
 Acq: 16 Jun 2023 21:28

Tgt Ion: 117 Resp: 3963
 Ion Ratio Lower Upper
 117 100
 119 9.0 76.4 114.6#
 121 0.0 25.8 38.6#

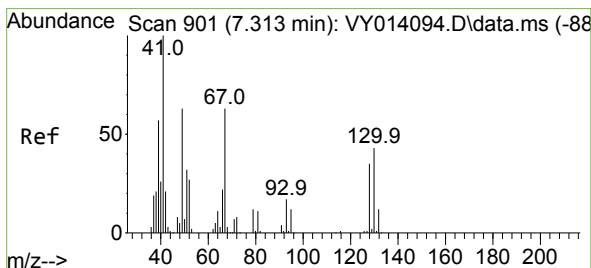
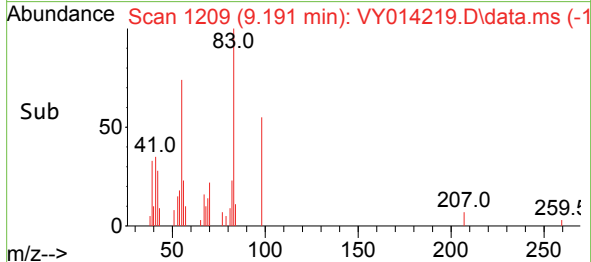
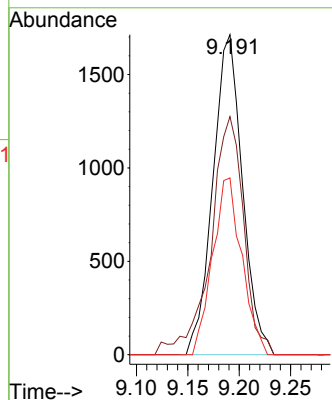
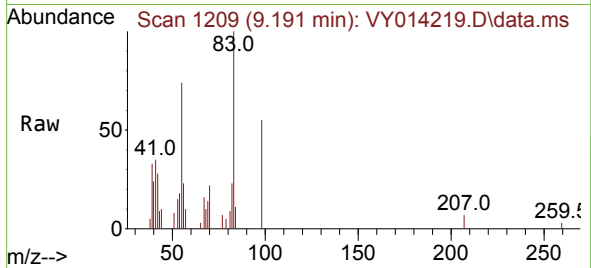




#39
Methylcyclohexane
Concen: 4.716 ug/l
RT: 9.191 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

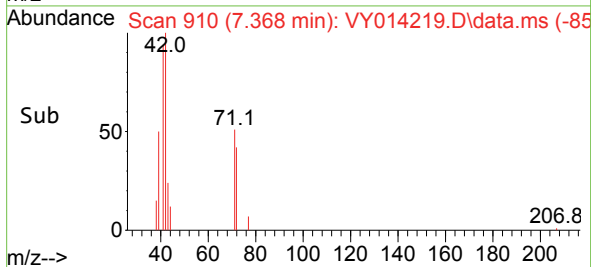
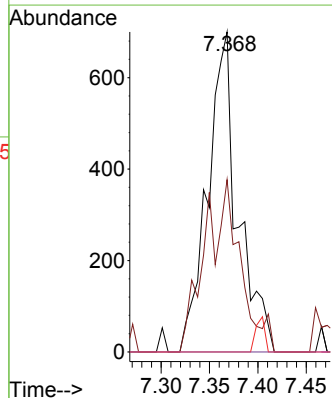
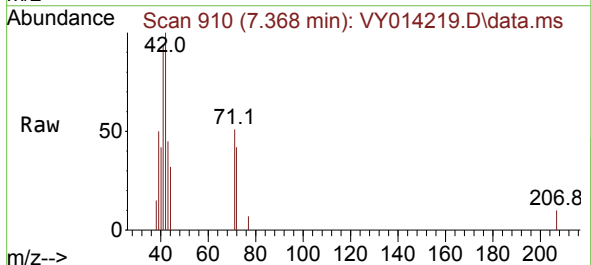
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-15-GRAB-6RE

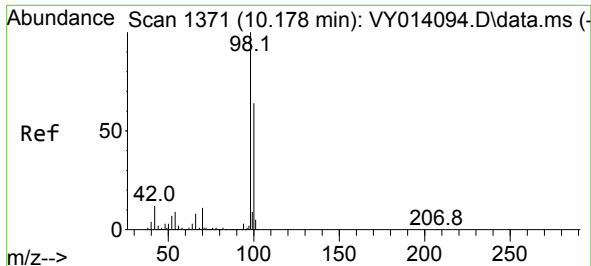
Tgt Ion: 83 Resp: 3424
Ion Ratio Lower Upper
83 100
55 74.4 63.0 94.4
98 55.3 37.4 56.2



#41
Methacrylonitrile
Concen: 6.579 ug/l
RT: 7.368 min Scan# 910
Delta R.T. 0.055 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

Tgt Ion: 41 Resp: 1516
Ion Ratio Lower Upper
41 100
39 26.3 52.1 78.1#
67 0.0 66.2 99.2#
52 0.0 29.9 44.9#

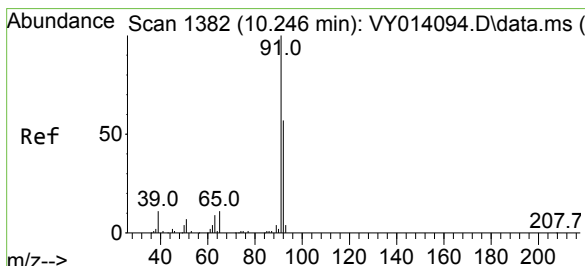
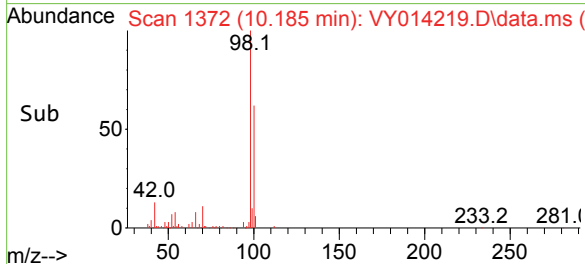
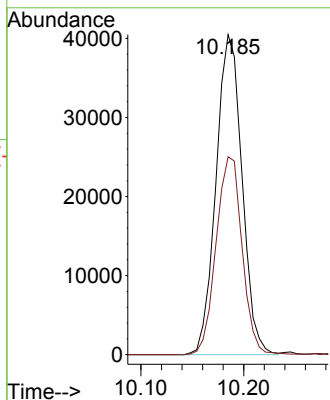
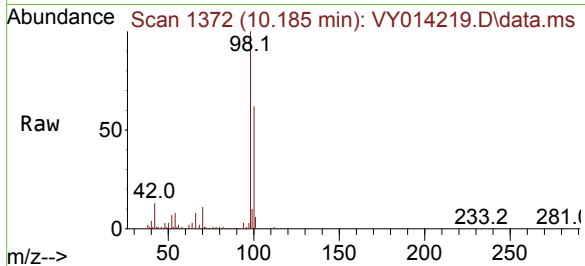




#50
Toluene-d8
Concen: 45.327 ug/l
RT: 10.185 min Scan# 1372
Delta R.T. 0.007 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

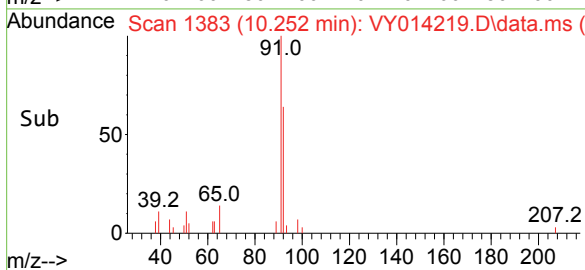
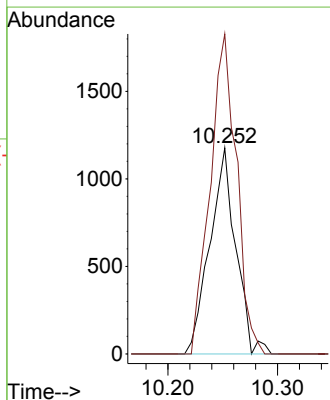
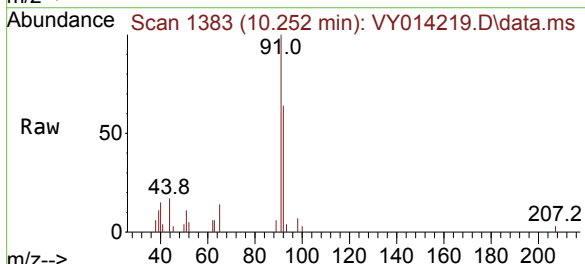
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-15-GRAB-6RE

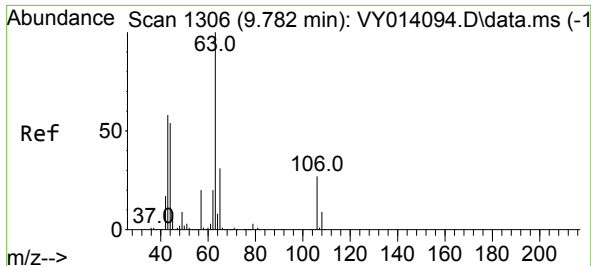
Tgt Ion: 98 Resp: 71125
Ion Ratio Lower Upper
98 100
100 61.8 50.1 75.1



#52
Toluene
Concen: 1.608 ug/l
RT: 10.252 min Scan# 1383
Delta R.T. 0.006 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

Tgt Ion: 92 Resp: 1939
Ion Ratio Lower Upper
92 100
91 158.2 143.8 215.6

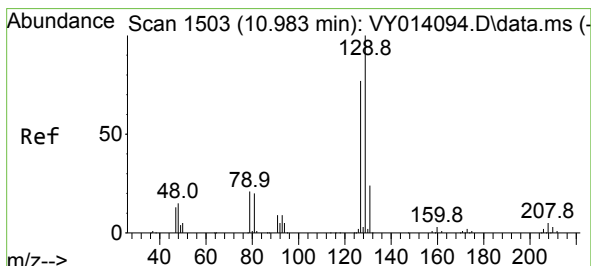
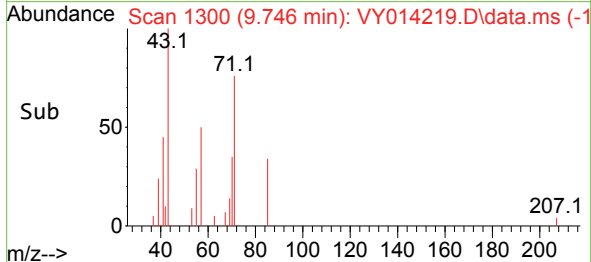
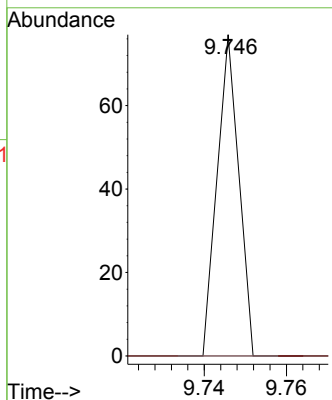
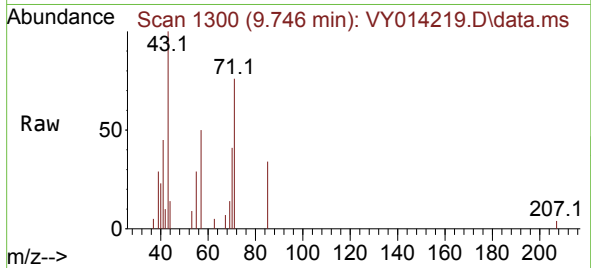




#58
 2-Chloroethyl Vinyl ether
 Concen: 28.719 ug/l
 RT: 9.746 min Scan# 11
 Delta R.T. -0.036 min
 Lab File: VY014219.D
 Acq: 16 Jun 2023 21:28

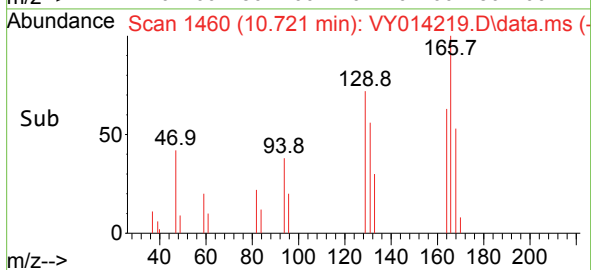
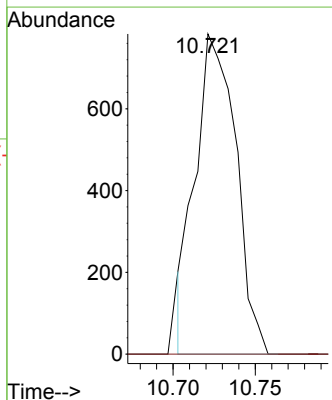
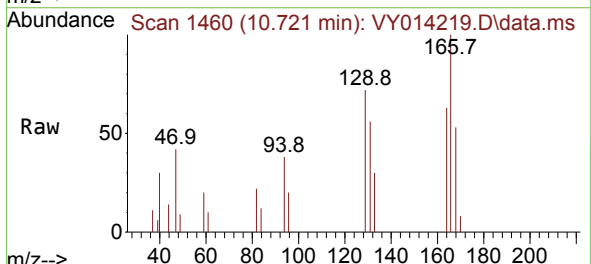
Instrument :
 MSVOA_Y
 ClientSampleId :
 TOTAL-VOC-SB-15-GRAB-6RE

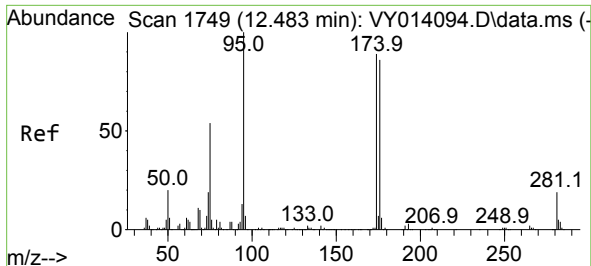
Tgt Ion: 63 Resp: 28
 Ion Ratio Lower Upper
 63 100
 106 0.0 21.2 31.8#



#60
 Dibromochloromethane
 Concen: 2.597 ug/l
 RT: 10.721 min Scan# 1460
 Delta R.T. -0.262 min
 Lab File: VY014219.D
 Acq: 16 Jun 2023 21:28

Tgt Ion: 129 Resp: 1341
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.5 115.5#

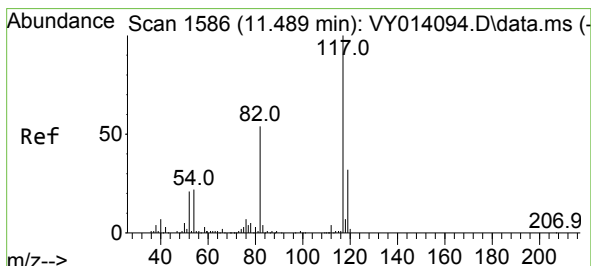
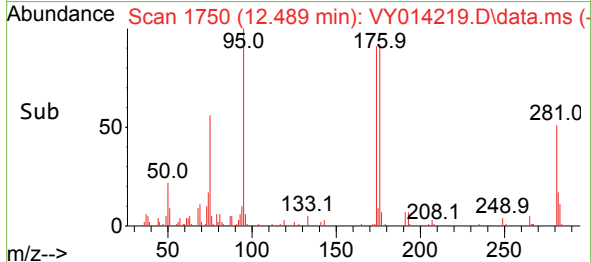
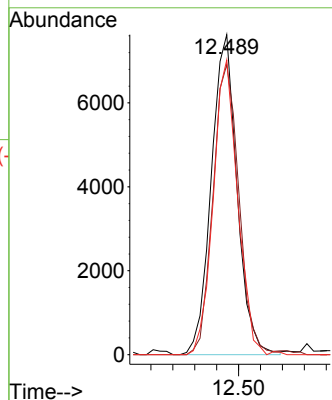
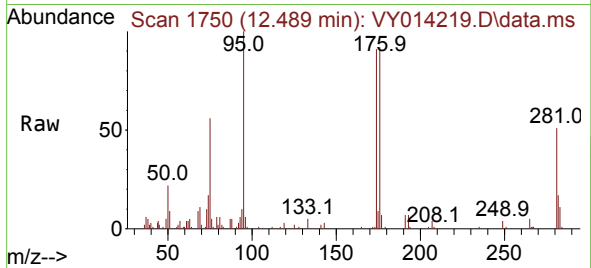




#62
4-Bromofluorobenzene
Concen: 22.283 ug/l
RT: 12.489 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

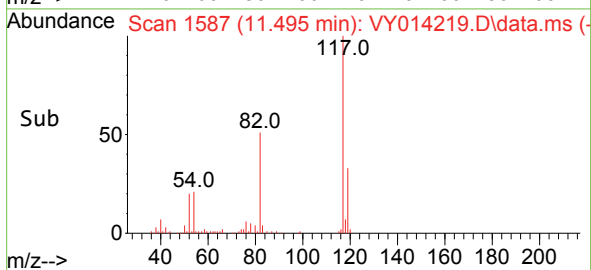
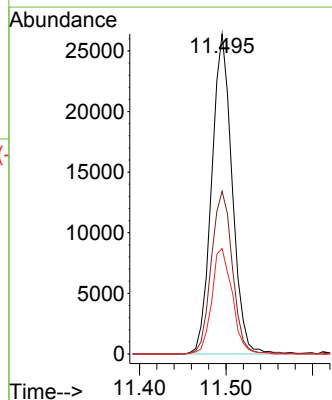
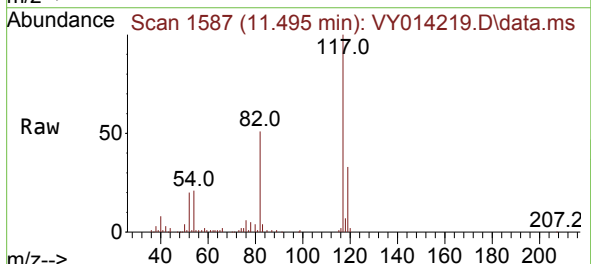
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-15-GRAB-6RE

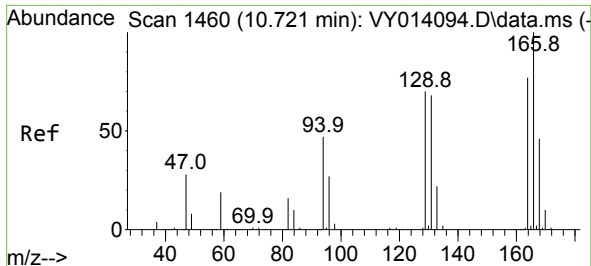
Tgt Ion: 95 Resp: 12421
Ion Ratio Lower Upper
95 100
174 92.2 0.0 178.2
176 87.6 0.0 173.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.495 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

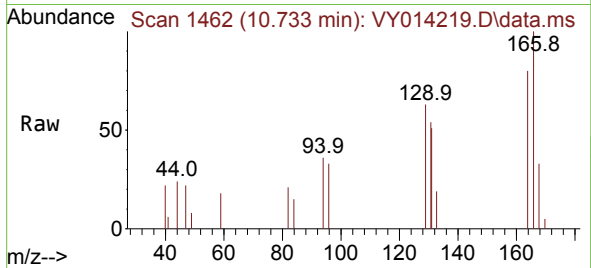
Tgt Ion: 117 Resp: 43300
Ion Ratio Lower Upper
117 100
82 50.8 43.4 65.0
119 32.9 26.3 39.5



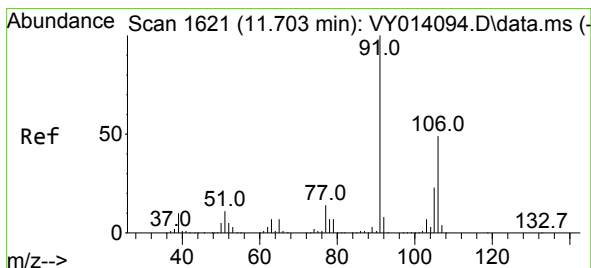
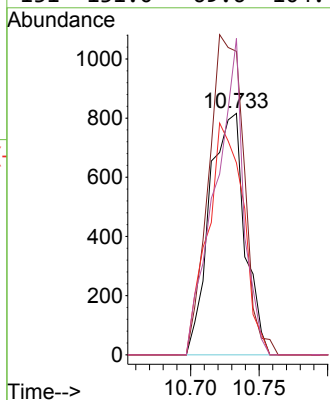
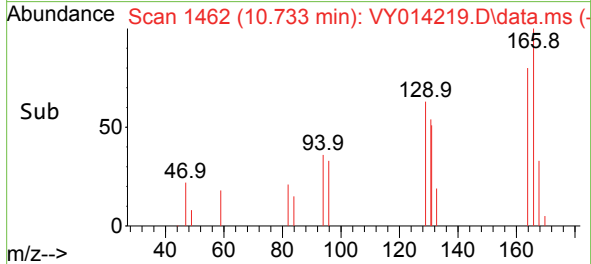


#64
Tetrachloroethene
Concen: 3.953 ug/l
RT: 10.733 min Scan# 1462
Delta R.T. 0.012 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

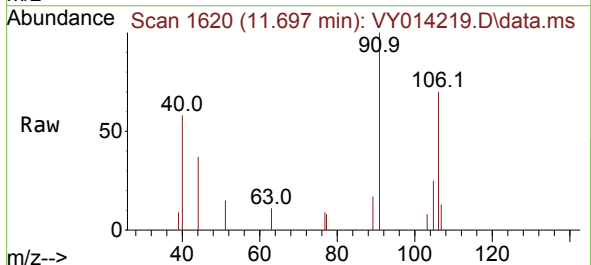
Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-15-GRAB-6RE



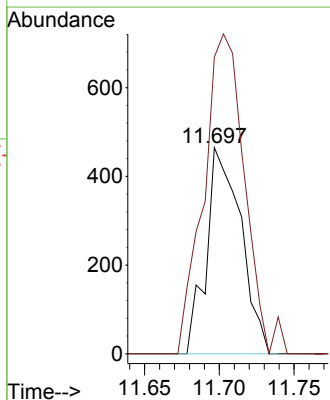
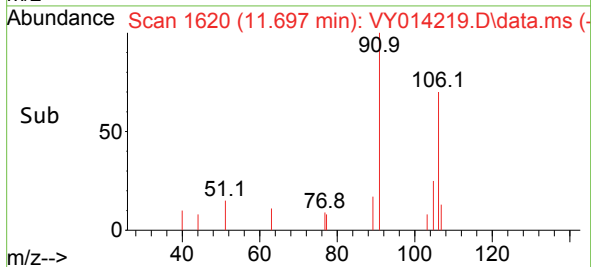
Tgt Ion:164 Resp: 1459
Ion Ratio Lower Upper
164 100
166 125.7 103.0 154.6
129 79.5 77.2 115.8
131 131.0 69.6 104.4#

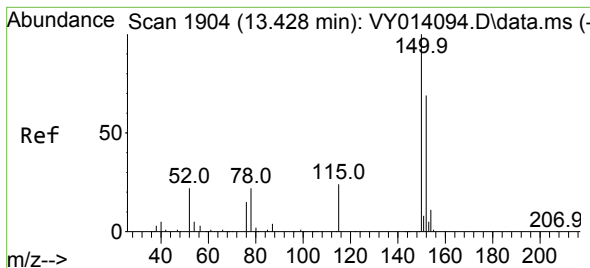


#68
m/p-Xylenes
Concen: 1.062 ug/l
RT: 11.697 min Scan# 1620
Delta R.T. -0.006 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28



Tgt Ion:106 Resp: 744
Ion Ratio Lower Upper
106 100
91 184.7 166.1 249.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.434 min Scan# 1904

Delta R.T. 0.006 min

Lab File: VY014219.D

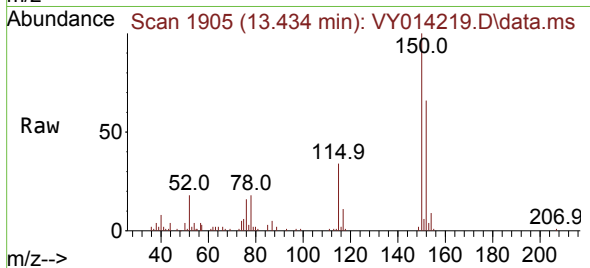
Acq: 16 Jun 2023 21:28

Instrument :

MSVOA_Y

ClientSampleId :

TOTAL-VOC-SB-15-GRAB-6RE



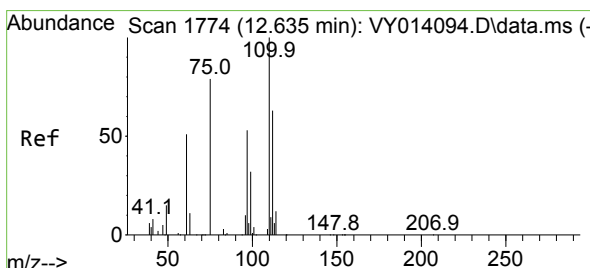
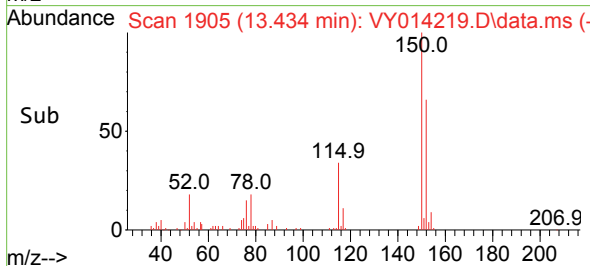
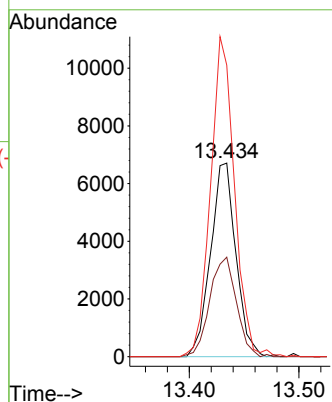
Tgt Ion:152 Resp: 10808

Ion Ratio Lower Upper

152 100

115 53.9 28.8 86.5

150 155.8 0.0 348.8



#76

1,2,3-Trichloropropane

Concen: 46.841 ug/l

RT: 12.489 min Scan# 1750

Delta R.T. -0.146 min

Lab File: VY014219.D

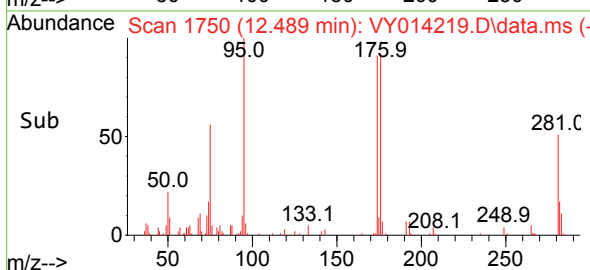
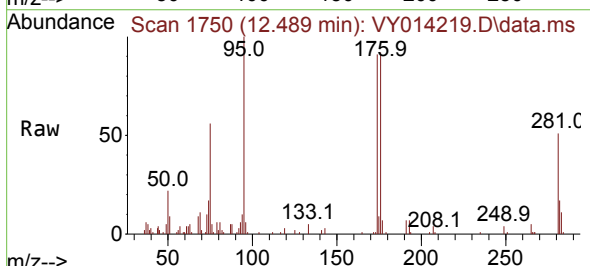
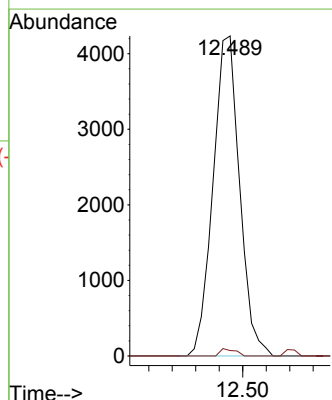
Acq: 16 Jun 2023 21:28

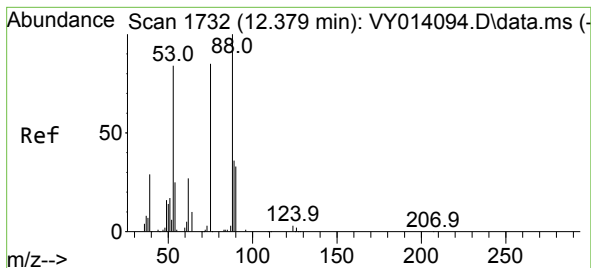
Tgt Ion: 75 Resp: 6642

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#

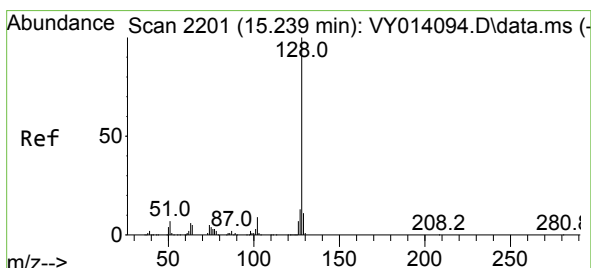
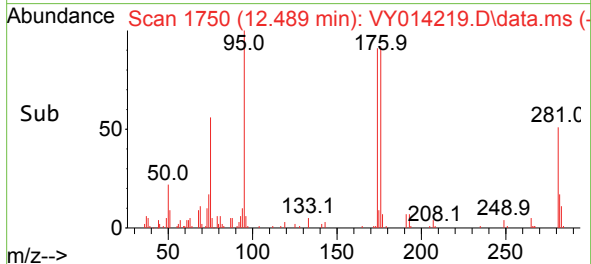
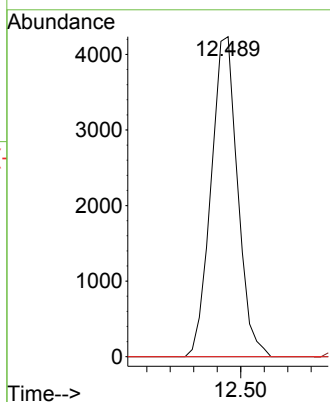
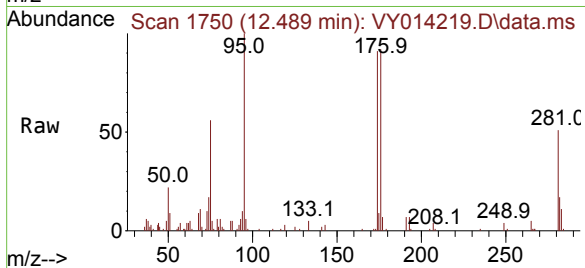




#81
trans-1,4-Dichloro-2-butene
Concen: 101.252 ug/l
RT: 12.489 min Scan# 11
Delta R.T. 0.110 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

Instrument :
MSVOA_Y
ClientSampleId :
TOTAL-VOC-SB-15-GRAB-6RE

Tgt Ion: 75 Resp: 6642
Ion Ratio Lower Upper
75 100
53 0.0 77.8 116.8#
89 0.0 37.4 56.0#



#95
Naphthalene
Concen: 1.609 ug/l
RT: 15.245 min Scan# 2202
Delta R.T. 0.006 min
Lab File: VY014219.D
Acq: 16 Jun 2023 21:28

Tgt Ion: 128 Resp: 769
Ion Ratio Lower Upper
128 100
127 0.0 10.8 16.2#
129 8.7 8.6 13.0

