

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070323\
 Data File : VY014542.D
 Acq On : 03 Jul 2023 17:56
 Operator : KP/MD
 Sample : 03412-04
 Misc : 5.08g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 DUCT-2RE

Quant Time: Jul 04 03:04:04 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y063023S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 30 19:02:11 2023
 Response via : Initial Calibration

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

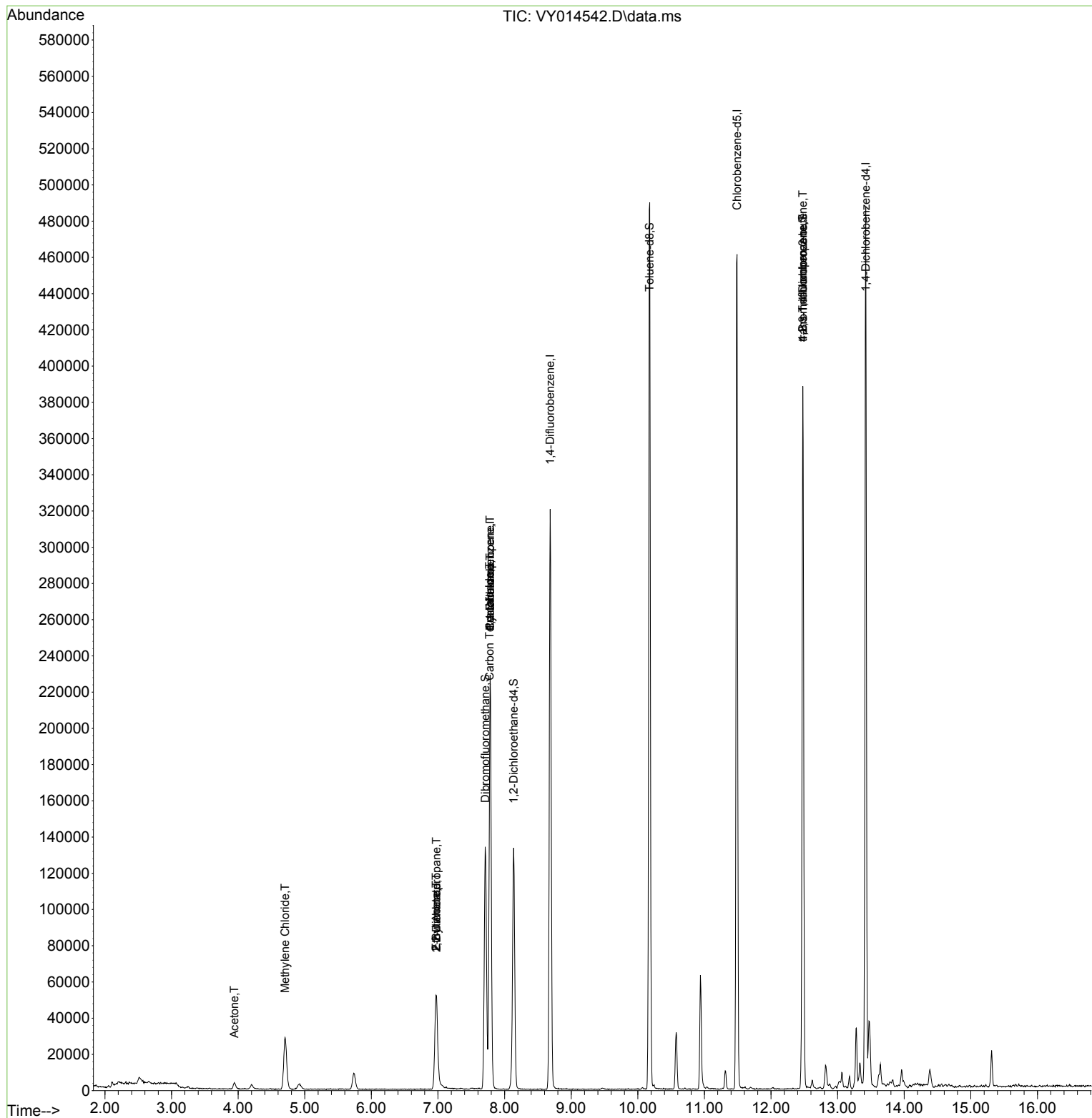
Internal Standards						
1) Pentafluorobenzene	7.783	168	193638	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	296689	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	282815	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	137652	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	102935	53.437	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 106.880%			
35) Dibromofluoromethane	7.710	113	96677	52.915	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 105.820%			
50) Toluene-d8	10.179	98	347372	48.096	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.200%			
62) 4-Bromofluorobenzene	12.477	95	113284	45.170	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 90.340%			
Target Compounds						
2) Dichlorodifluoromethane	1.894	85	130	Below Cal	#	43
11) Tert butyl alcohol	4.911	59	3352	Below Cal	#	89
13) Acrolein	3.741	56	26	Below Cal	#	14
16) Acetone	3.942	43	6022	10.011	ug/l	91
20) Methylene Chloride	4.704	84	24069	6.585	ug/l	# 77
25) 2-Butanone	6.972	43	2642	2.966	ug/l	# 78
26) 2,2-Dichloropropane	6.978	77	4444	1.472	ug/l	# 54
31) Cyclohexane	7.783	56	3036	1.005	ug/l	# 1
36) 1,1-Dichloropropene	7.783	75	12741	4.554	ug/l	# 49
37) Ethyl Acetate	6.972	43	2642	1.377	ug/l	# 1
38) Carbon Tetrachloride	7.777	117	16155	5.531	ug/l	# 19
76) 1,2,3-Trichloropropane	12.477	75	51561	31.920	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.477	75	51561	62.130	ug/l	# 11

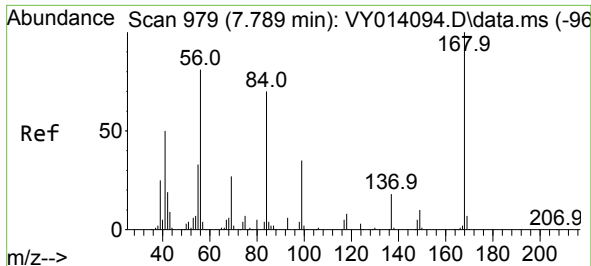
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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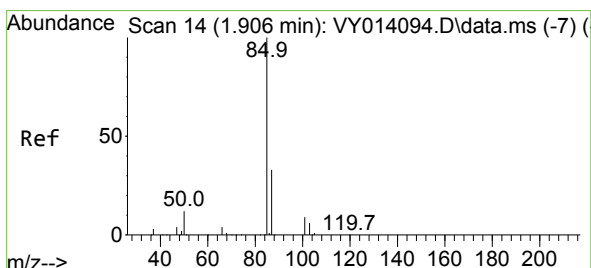
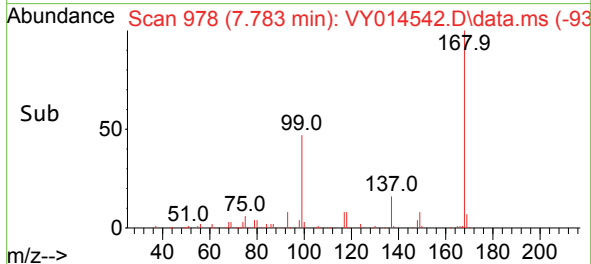
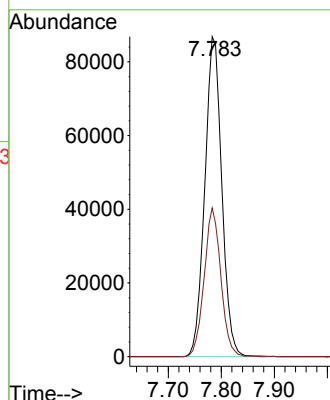
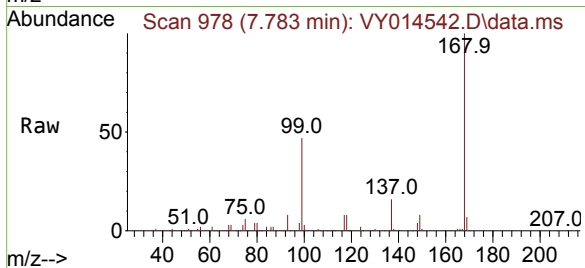




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY014542.D
Acq: 03 Jul 2023 17:56

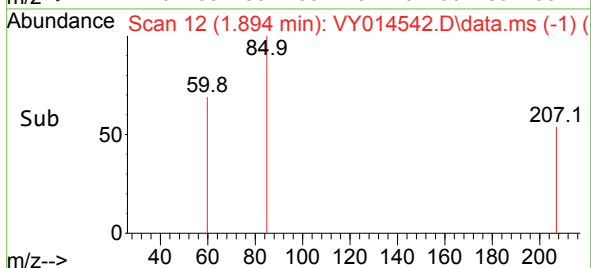
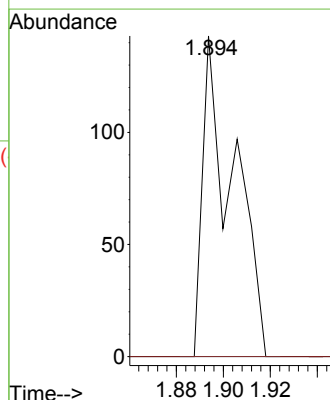
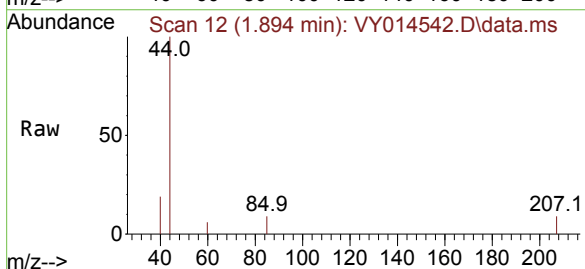
Instrument :
MSVOA_Y
ClientSampleId :
DUCT-2RE

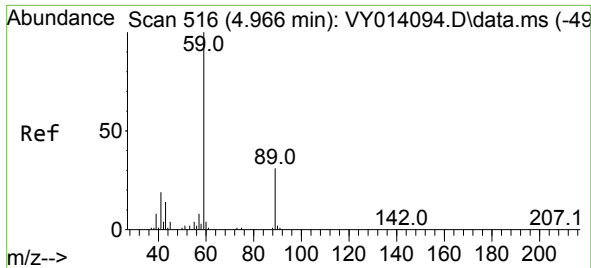
Tgt Ion:168 Resp: 193638
Ion Ratio Lower Upper
168 100
99 46.5 43.4 65.0



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.894 min Scan# 12
Delta R.T. -0.012 min
Lab File: VY014542.D
Acq: 03 Jul 2023 17:56

Tgt Ion: 85 Resp: 130
Ion Ratio Lower Upper
85 100
87 0.0 15.6 46.8#

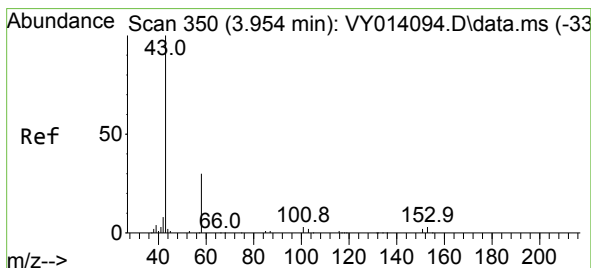
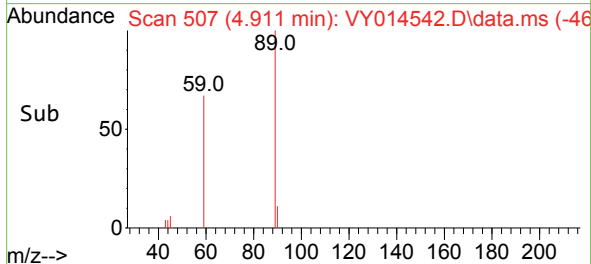
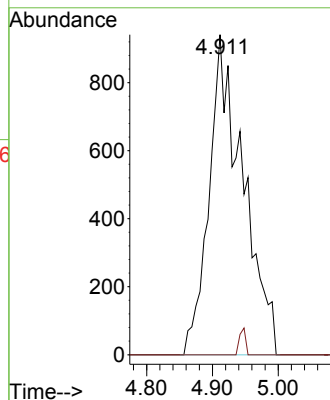
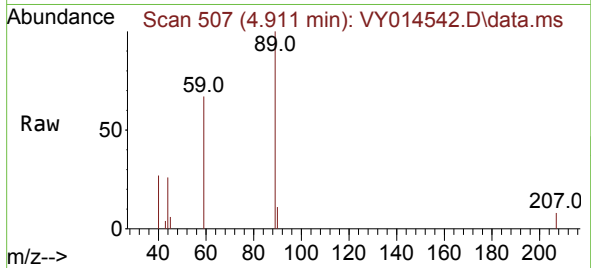




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.911 min Scan# 507
Delta R.T. -0.055 min
Lab File: VY014542.D
Acq: 03 Jul 2023 17:56

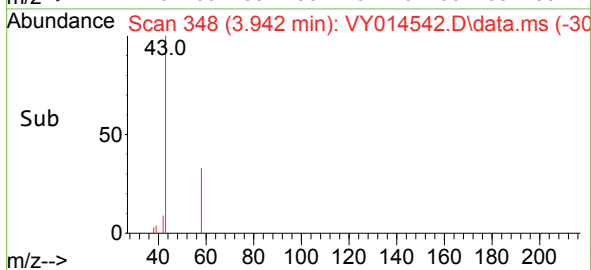
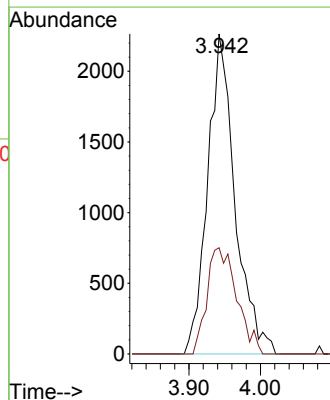
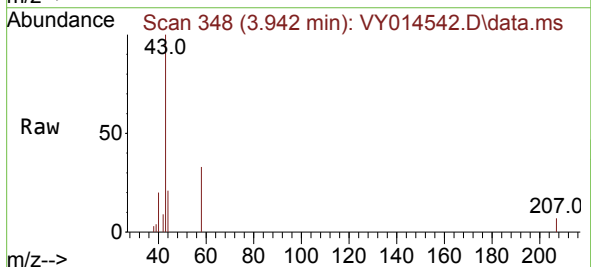
Instrument :
MSVOA_Y
ClientSampleId :
DUCT-2RE

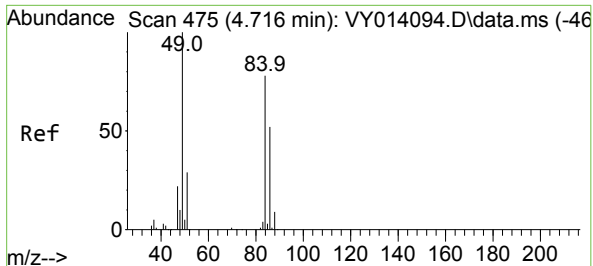
Tgt Ion: 59 Resp: 3352
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#



#16
Acetone
Concen: 10.011 ug/l
RT: 3.942 min Scan# 348
Delta R.T. -0.012 min
Lab File: VY014542.D
Acq: 03 Jul 2023 17:56

Tgt Ion: 43 Resp: 6022
Ion Ratio Lower Upper
43 100
58 33.2 22.7 34.1

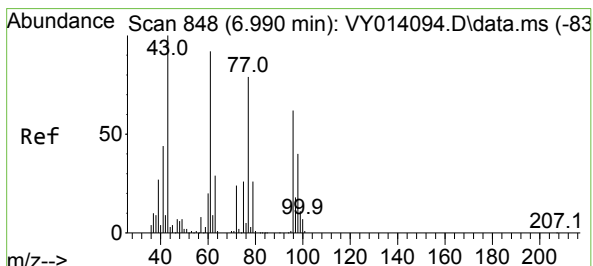
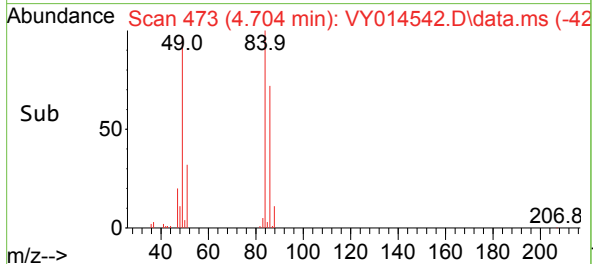
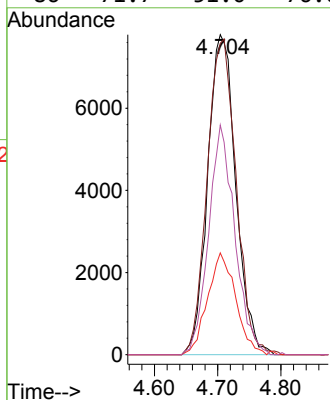
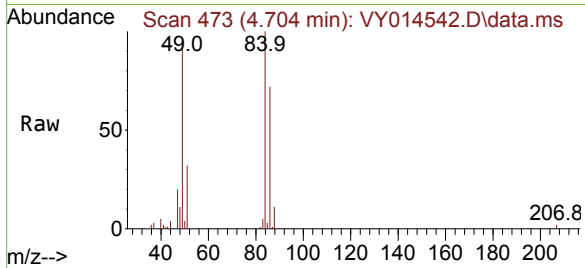




#20
Methylene Chloride
Concen: 6.585 ug/l
RT: 4.704 min Scan# 41
Delta R.T. -0.012 min
Lab File: VY014542.D
Acq: 03 Jul 2023 17:56

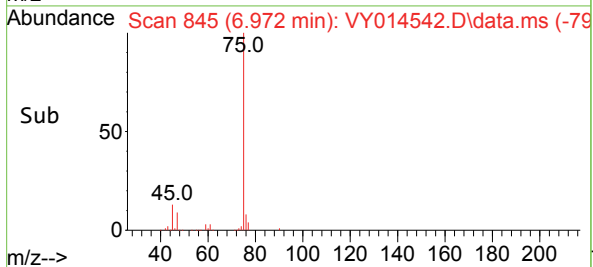
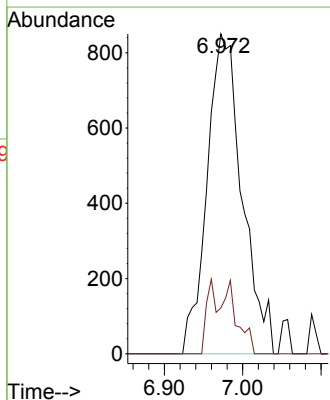
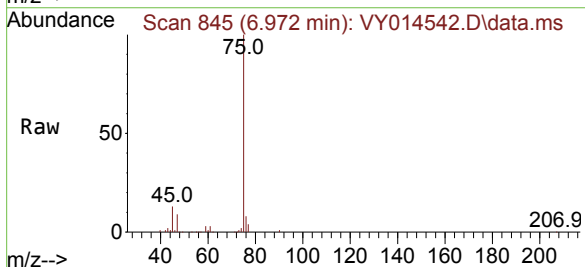
Instrument :
MSVOA_Y
ClientSampleId :
DUCT-2RE

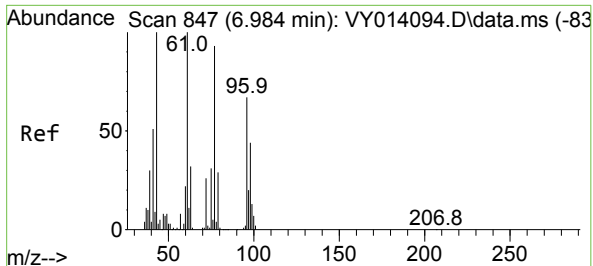
Tgt Ion: 84 Resp: 24069
Ion Ratio Lower Upper
84 100
49 97.3 106.9 160.3#
51 31.8 33.2 49.8#
86 71.7 51.0 76.6



#25
2-Butanone
Concen: 2.966 ug/l
RT: 6.972 min Scan# 845
Delta R.T. -0.018 min
Lab File: VY014542.D
Acq: 03 Jul 2023 17:56

Tgt Ion: 43 Resp: 2642
Ion Ratio Lower Upper
43 100
72 14.4 20.5 30.7#





#26

2,2-Dichloropropane

Concen: 1.472 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.006 min

Lab File: VY014542.D

Acq: 03 Jul 2023 17:56

Instrument :

MSVOA_Y

ClientSampleId :

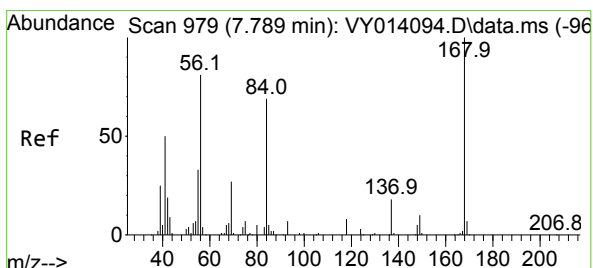
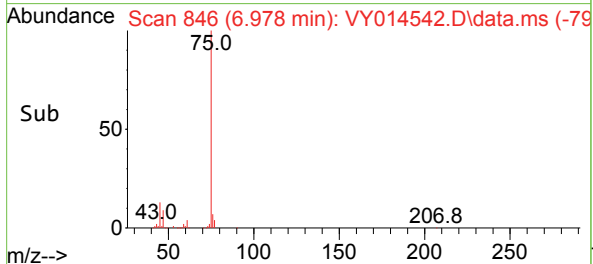
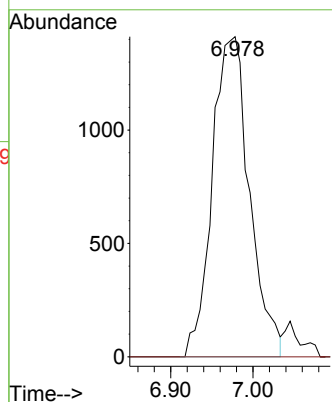
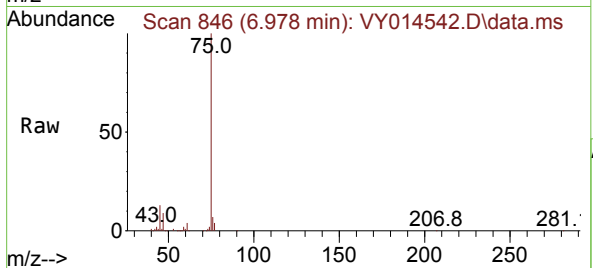
DUCT-2RE

Tgt Ion: 77 Resp: 4444

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#



#31

Cyclohexane

Concen: 1.005 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.006 min

Lab File: VY014542.D

Acq: 03 Jul 2023 17:56

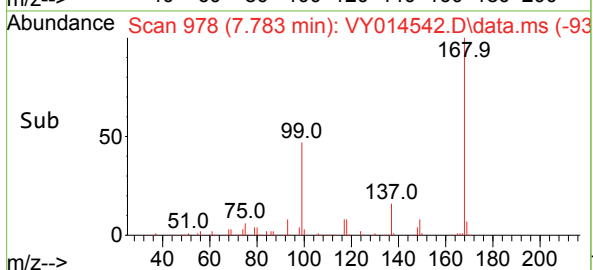
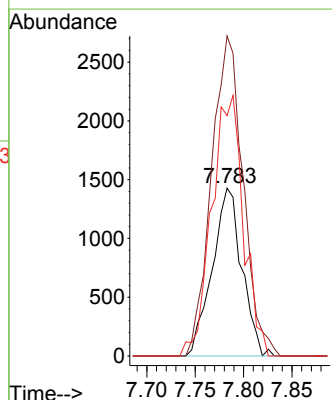
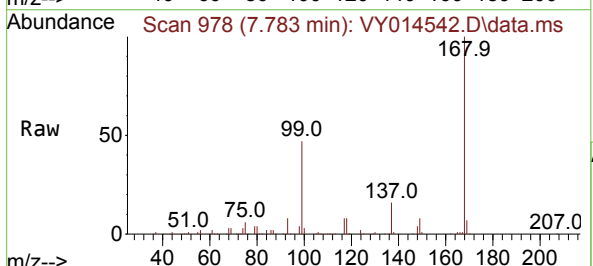
Tgt Ion: 56 Resp: 3036

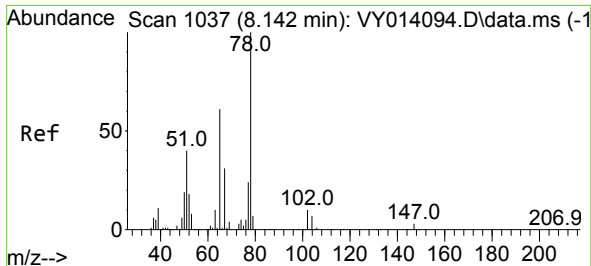
Ion Ratio Lower Upper

56 100

69 190.7 27.8 41.6#

84 143.2 66.4 99.6#

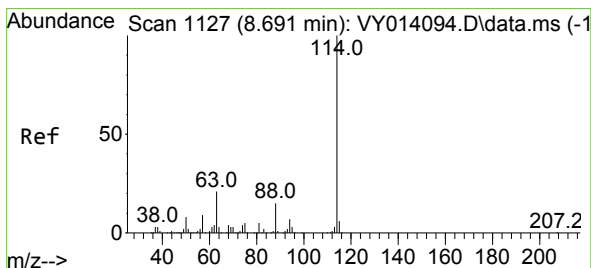
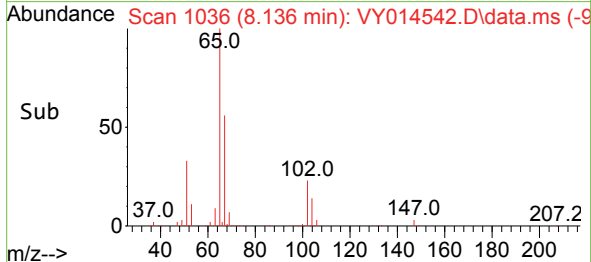
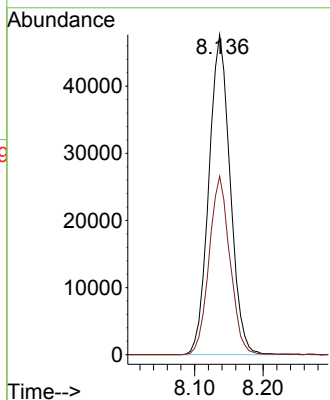
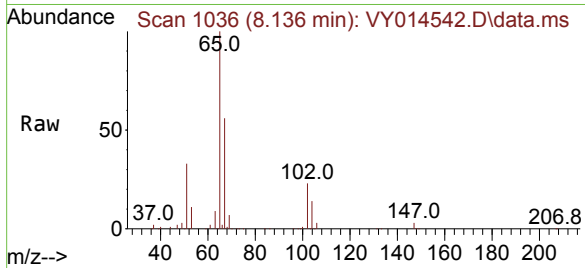




#33
 1,2-Dichloroethane-d4
 Concen: 53.437 ug/l
 RT: 8.136 min Scan# 1036
 Delta R.T. -0.005 min
 Lab File: VY014542.D
 Acq: 03 Jul 2023 17:56

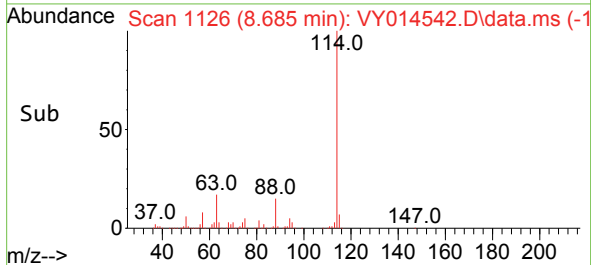
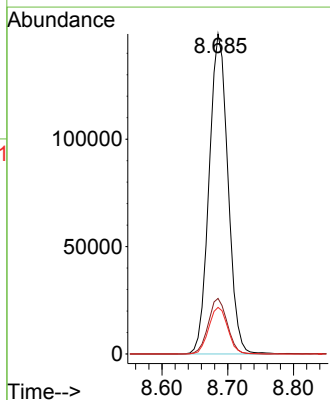
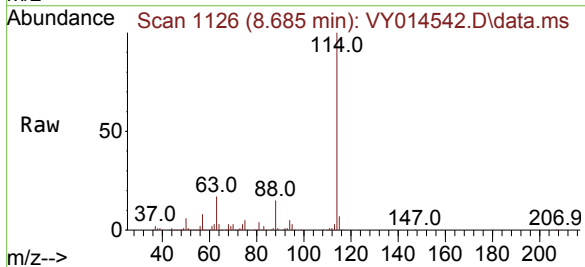
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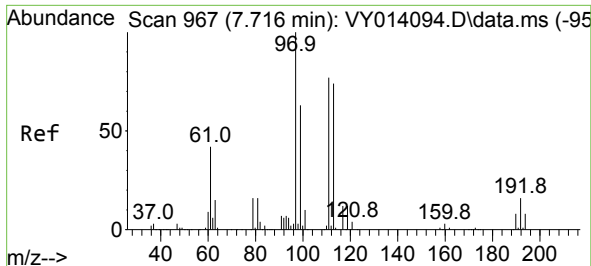
Tgt Ion: 65 Resp: 102935
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 101.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.685 min Scan# 1126
 Delta R.T. -0.006 min
 Lab File: VY014542.D
 Acq: 03 Jul 2023 17:56

Tgt Ion: 114 Resp: 296689
 Ion Ratio Lower Upper
 114 100
 63 17.4 0.0 42.4
 88 14.6 0.0 30.6

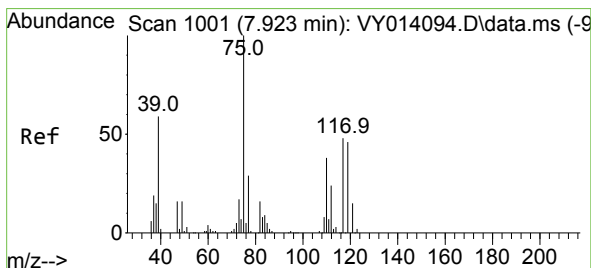
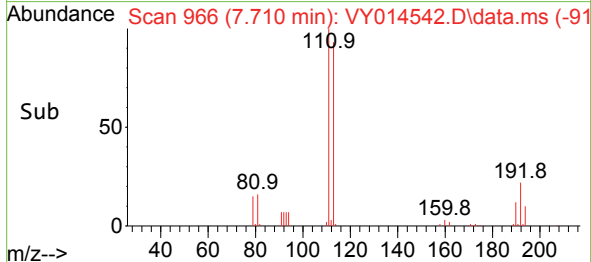
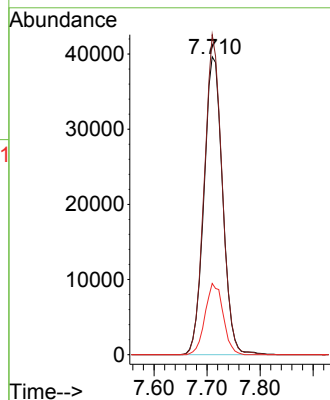
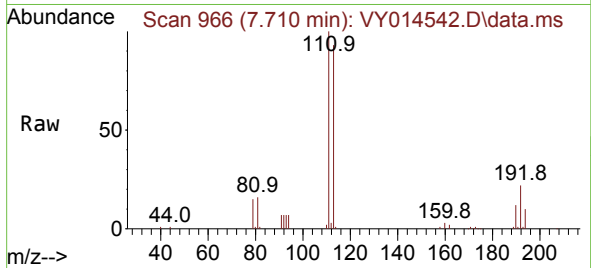




#35
Dibromofluoromethane
Concen: 52.915 ug/l
RT: 7.710 min Scan# 911
Delta R.T. -0.006 min
Lab File: VY014542.D
Acq: 03 Jul 2023 17:56

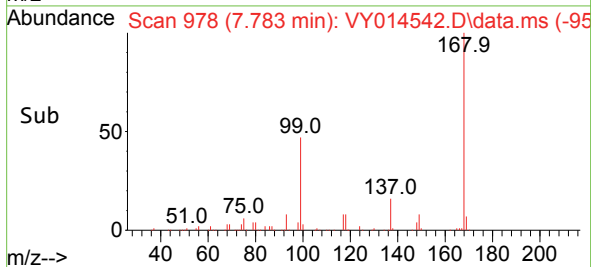
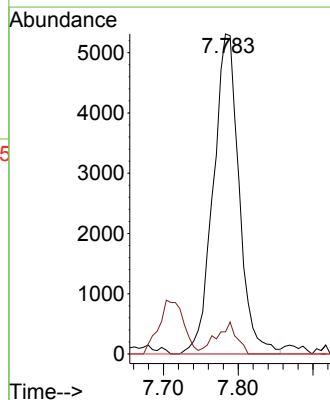
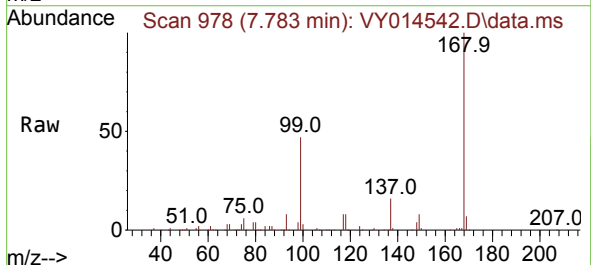
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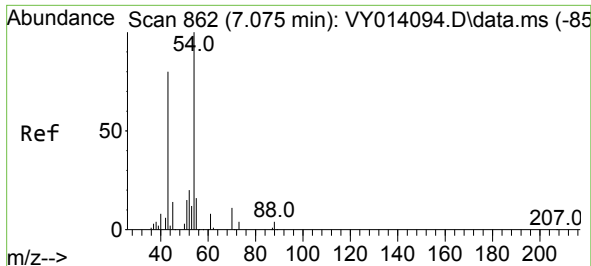
Tgt Ion:113 Resp: 96677
Ion Ratio Lower Upper
113 100
111 102.6 81.3 121.9
192 23.2 16.9 25.3



#36
1,1-Dichloropropene
Concen: 4.554 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.140 min
Lab File: VY014542.D
Acq: 03 Jul 2023 17:56

Tgt Ion: 75 Resp: 12741
Ion Ratio Lower Upper
75 100
110 7.8 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 1.377 ug/l

RT: 6.972 min Scan# 84

Delta R.T. -0.103 min

Lab File: VY014542.D

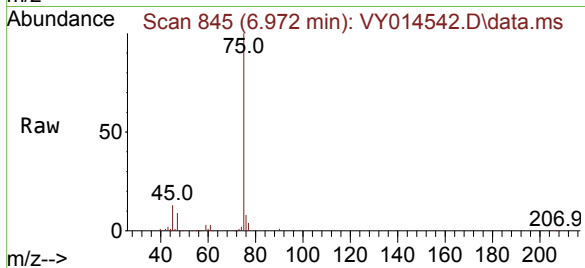
Acq: 03 Jul 2023 17:56

Instrument :

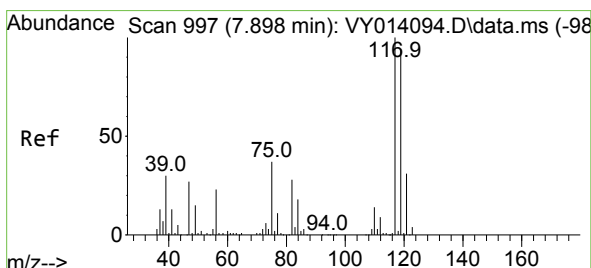
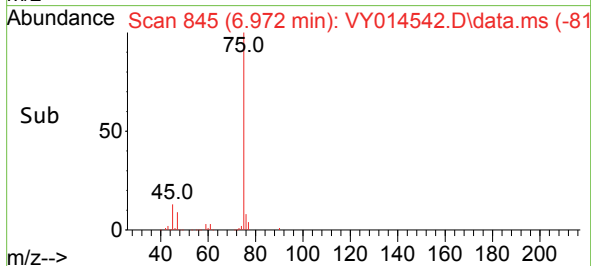
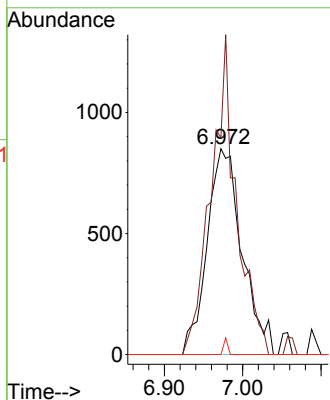
MSVOA_Y

ClientSampleId :

DUCT-2RE



Tgt Ion:	43	Resp:	2642
Ion	Ratio	Lower	Upper
43	100		
61	112.5	10.1	15.1#
70	0.9	7.1	10.7#



#38

Carbon Tetrachloride

Concen: 5.531 ug/l

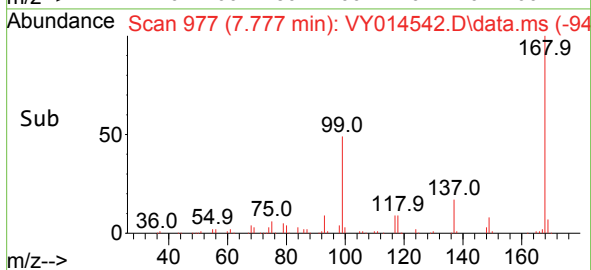
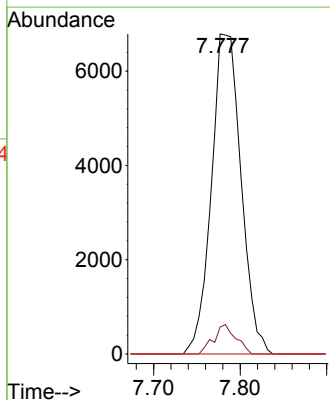
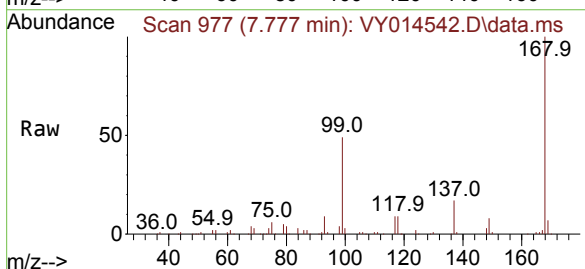
RT: 7.777 min Scan# 977

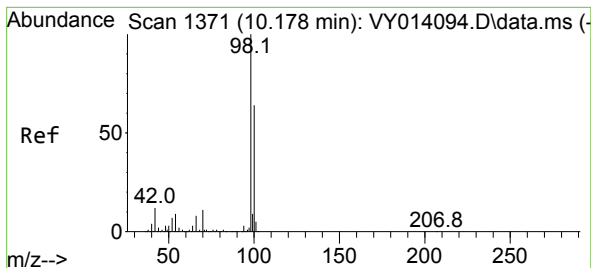
Delta R.T. -0.121 min

Lab File: VY014542.D

Acq: 03 Jul 2023 17:56

Tgt Ion:	117	Resp:	16155
Ion	Ratio	Lower	Upper
117	100		
119	8.4	76.4	114.6#
121	0.0	25.8	38.6#

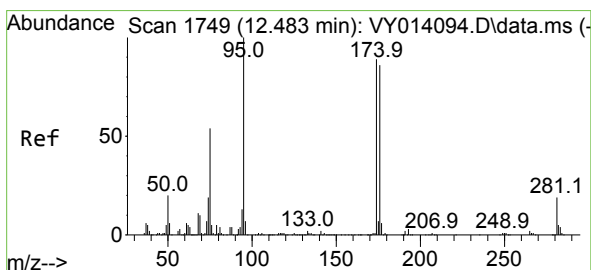
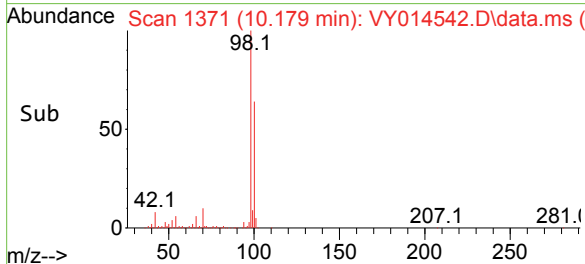
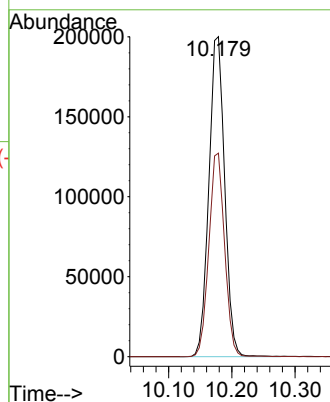
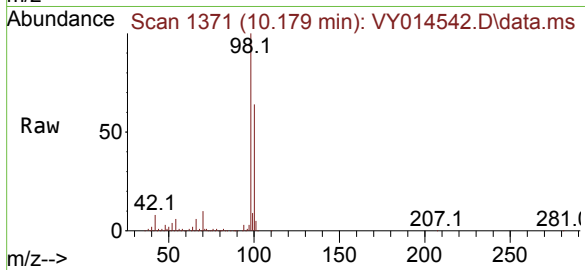




#50
Toluene-d8
Concen: 48.096 ug/l
RT: 10.179 min Scan# 11
Delta R.T. 0.001 min
Lab File: VY014542.D
Acq: 03 Jul 2023 17:56

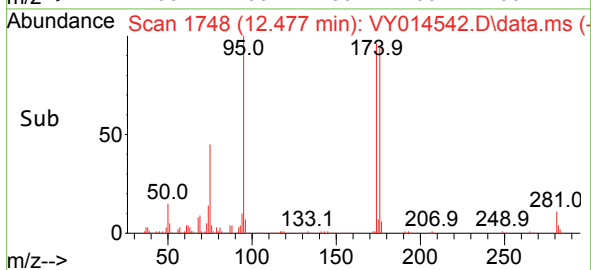
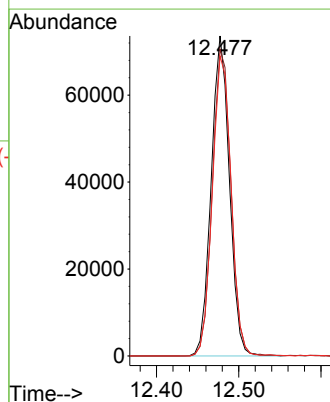
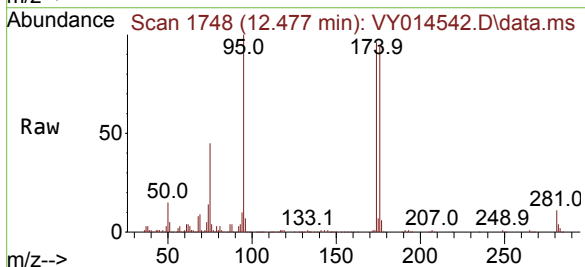
Instrument :
MSVOA_Y
ClientSampleId :
DUCT-2RE

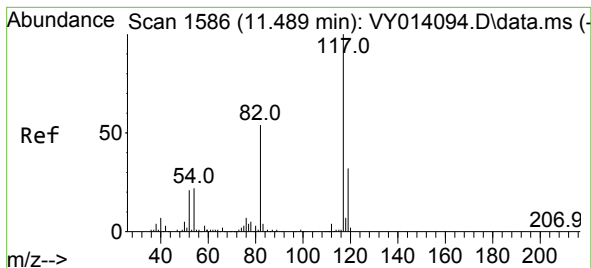
Tgt Ion: 98 Resp: 347372
Ion Ratio Lower Upper
98 100
100 63.3 50.1 75.1



#62
4-Bromofluorobenzene
Concen: 45.170 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.006 min
Lab File: VY014542.D
Acq: 03 Jul 2023 17:56

Tgt Ion: 95 Resp: 113284
Ion Ratio Lower Upper
95 100
174 98.0 0.0 178.2
176 96.5 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 11

Delta R.T. 0.001 min

Lab File: VY014542.D

Acq: 03 Jul 2023 17:56

Instrument :

MSVOA_Y

ClientSampleId :

DUCT-2RE

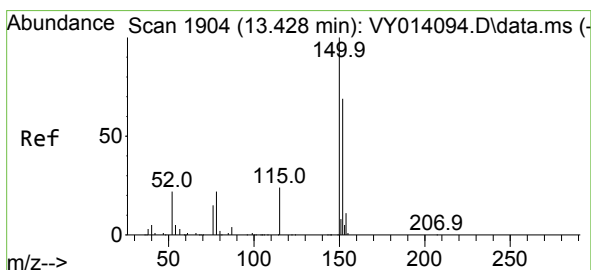
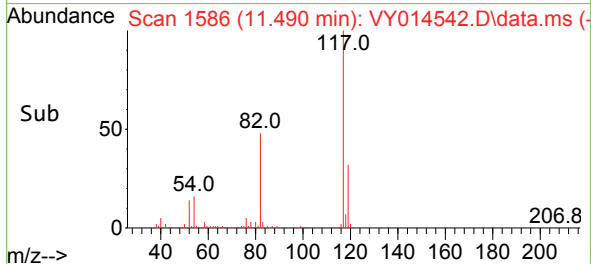
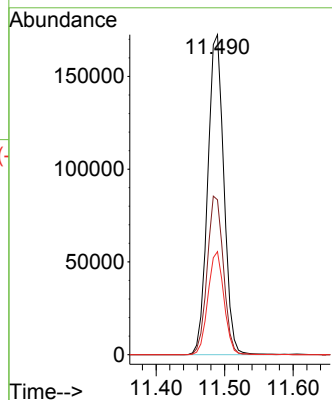
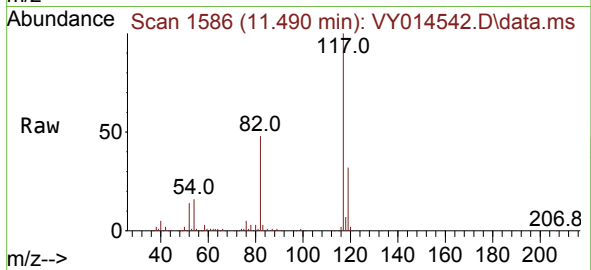
Tgt Ion:117 Resp: 282815

Ion Ratio Lower Upper

117 100

82 48.4 43.4 65.0

119 32.2 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. -0.006 min

Lab File: VY014542.D

Acq: 03 Jul 2023 17:56

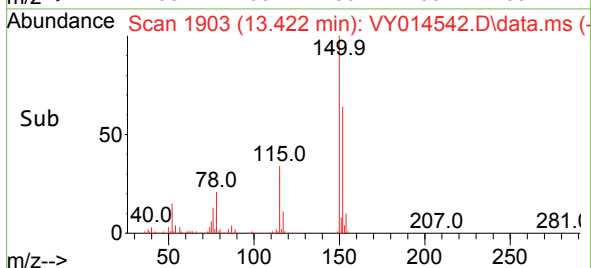
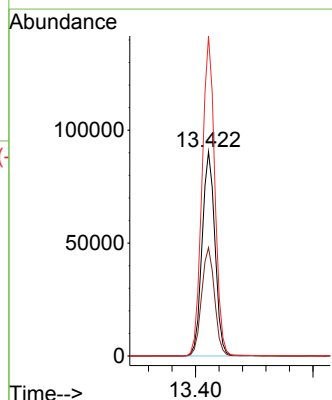
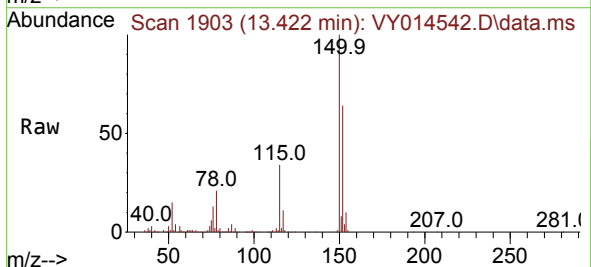
Tgt Ion:152 Resp: 137652

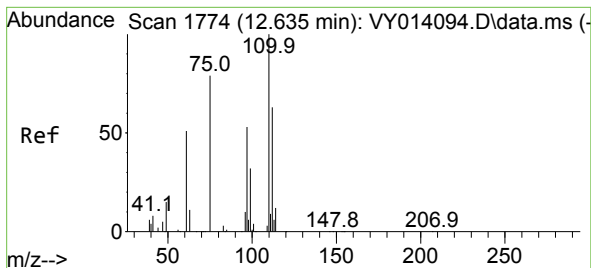
Ion Ratio Lower Upper

152 100

115 53.3 28.8 86.5

150 155.3 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 31.920 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.158 min

Lab File: VY014542.D

Acq: 03 Jul 2023 17:56

Instrument :

MSVOA_Y

ClientSampleId :

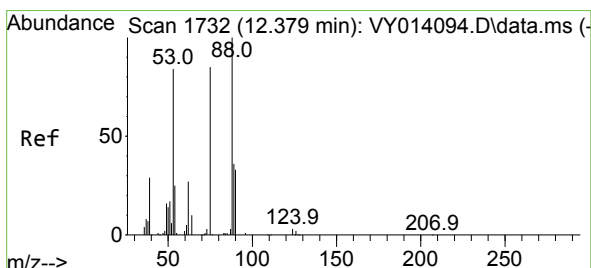
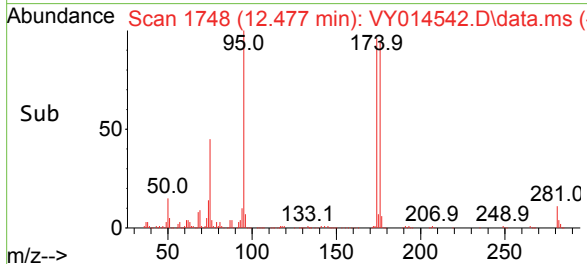
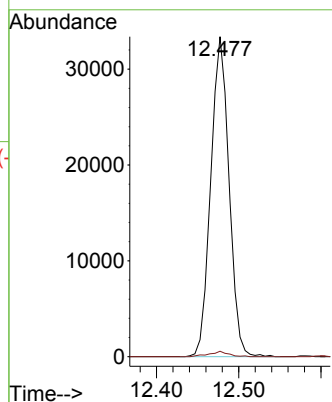
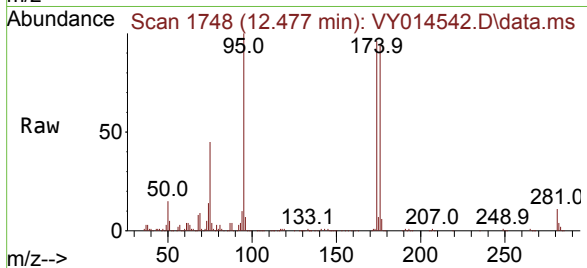
DUCT-2RE

Tgt Ion: 75 Resp: 51561

Ion Ratio Lower Upper

75 100

77 1.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.130 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.098 min

Lab File: VY014542.D

Acq: 03 Jul 2023 17:56

Tgt Ion: 75 Resp: 51561

Ion Ratio Lower Upper

75 100

53 0.6 77.8 116.8#

89 0.1 37.4 56.0#

