

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX120621\
 Data File : VX025551.D
 Acq On : 06 Dec 2021 16:06
 Operator : JC/MD
 Sample : M4923-12
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE120D1-20211201

Quant Time: Dec 07 06:01:00 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X111721W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 17 15:36:16 2021
 Response via : Initial Calibration

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

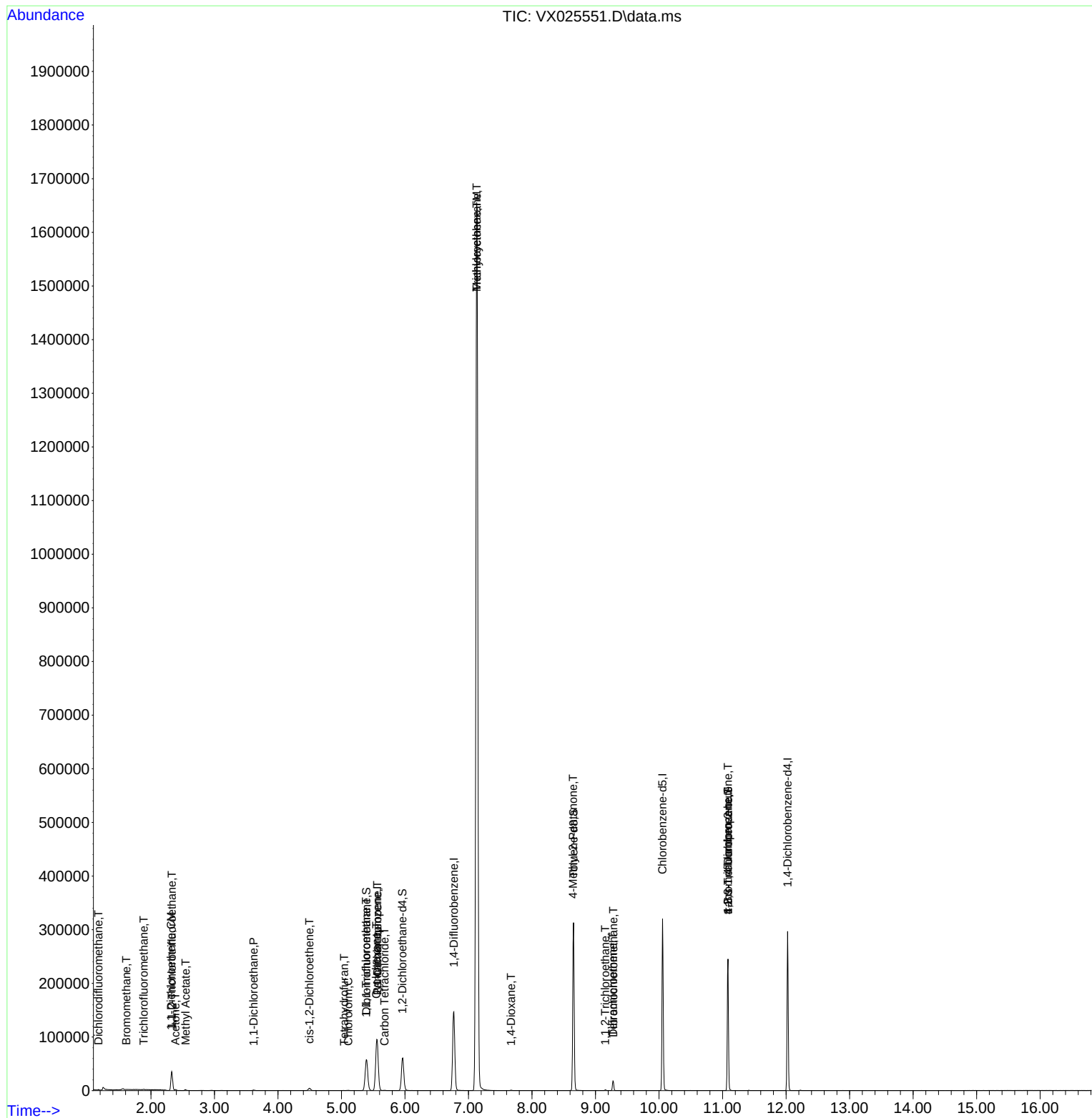
Internal Standards						
1) Pentafluorobenzene	5.562	168	97254	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	158833	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	144096	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	62265	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	56876	55.482	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 110.960%	
35) Dibromofluoromethane	5.391	113	49767	51.067	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 102.140%	
50) Toluene-d8	8.652	98	184148	50.256	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 100.520%	
62) 4-Bromofluorobenzene	11.085	95	64103	46.244	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 92.480%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.172	85	204	0.242	ug/l #	43
5) Bromomethane	1.611	94	194	0.394	ug/l	98
7) Trichlorofluoromethane	1.885	101	351	0.206	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.330	101	9929	10.970	ug/l	98
11) Tert butyl alcohol	2.946	59	105	Below Cal	#	72
12) 1,1-Dichloroethene	2.318	96	4554	5.052	ug/l	82
16) Acetone	2.385	43	1592	2.795	ug/l	100
18) Methyl Acetate	2.544	43	532	0.292	ug/l #	52
24) 1,1-Dichloroethane	3.617	63	1360	0.801	ug/l #	83
27) cis-1,2-Dichloroethene	4.495	96	2813	2.439	ug/l	84
29) Tetrahydrofuran	5.043	42	123	0.241	ug/l #	32
30) Chloroform	5.104	83	613	0.347	ug/l #	81
31) Cyclohexane	5.549	56	1806	1.140	ug/l #	1
32) 1,1,1-Trichloroethane	5.385	97	450	0.278	ug/l #	38
36) 1,1-Dichloropropene	5.562	75	6785	4.896	ug/l #	50
38) Carbon Tetrachloride	5.677	117	395	0.259	ug/l #	68
39) Methylcyclohexane	7.128	83	7409	4.168	ug/l #	1
44) Trichloroethene	7.128	130	663304	543.925	ug/l	97
49) 1,4-Dioxane	7.671	88	597	22.957	ug/l	92
51) 4-Methyl-2-Pentanone	8.646	43	844	0.513	ug/l #	1
55) 1,1,2-Trichloroethane	9.152	97	474	0.435	ug/l	93
60) Dibromochloromethane	9.280	129	3471	2.769	ug/l #	11
64) Tetrachloroethene	9.274	164	3624	3.050	ug/l	87
76) 1,2,3-Trichloropropane	11.085	75	31804	24.943	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.085	75	31804	62.836	ug/l #	9

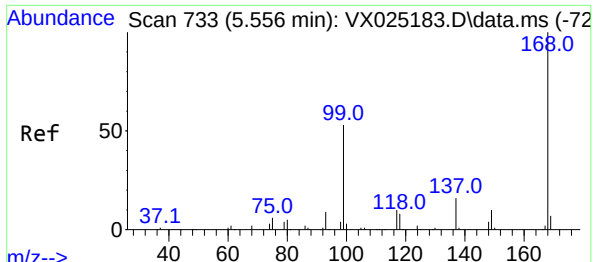
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X111721W.M
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QLast Update : Wed Nov 17 15:36:16 2021
Response via : Initial Calibration

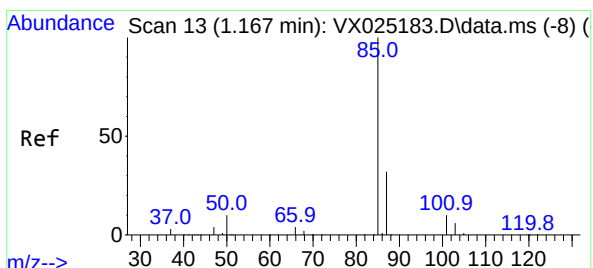
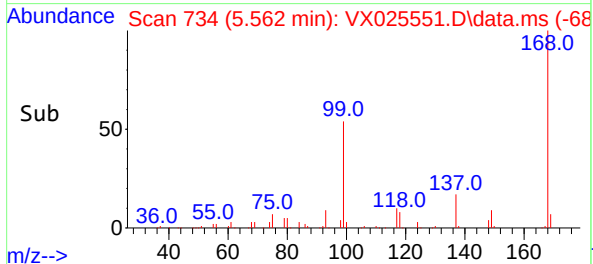
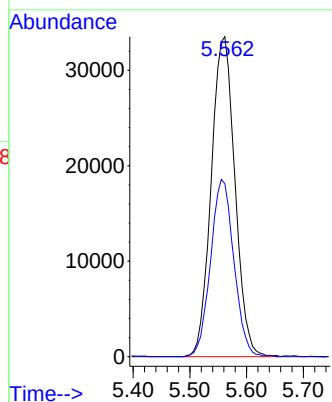
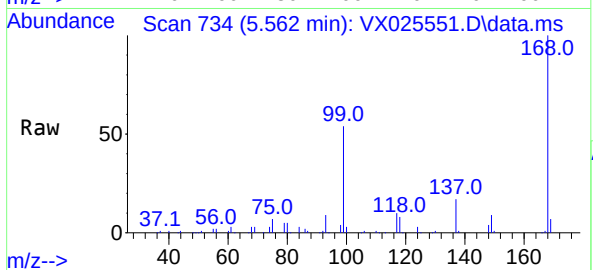




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

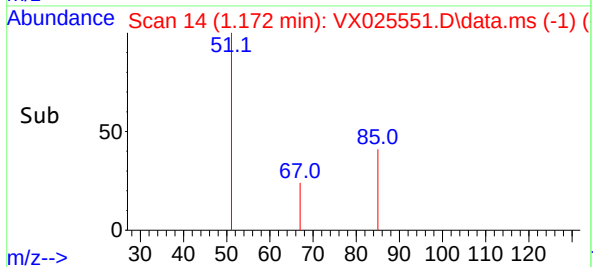
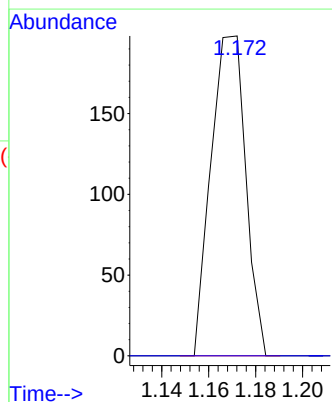
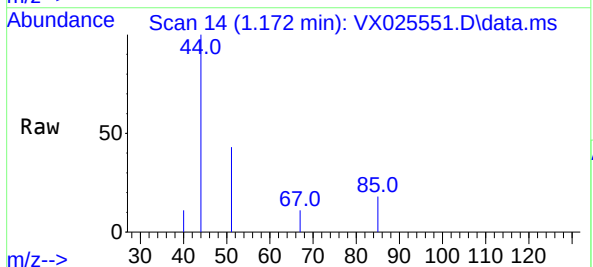
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20211201

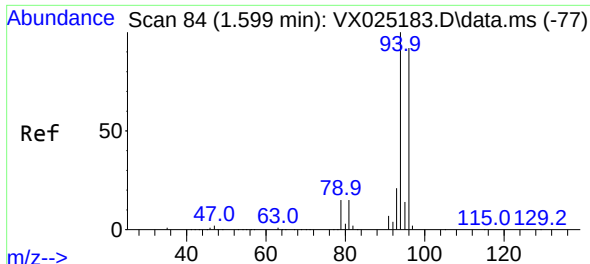
Tgt Ion:168 Resp: 97254
Ion Ratio Lower Upper
168 100
99 54.1 46.4 69.6



#2
Dichlorodifluoromethane
Concen: 0.242 ug/l
RT: 1.172 min Scan# 14
Delta R.T. 0.005 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

Tgt Ion: 85 Resp: 204
Ion Ratio Lower Upper
85 100
87 0.0 16.0 47.9#

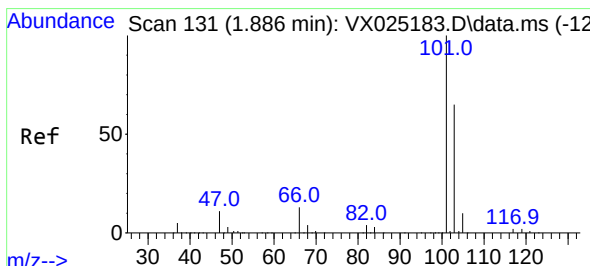
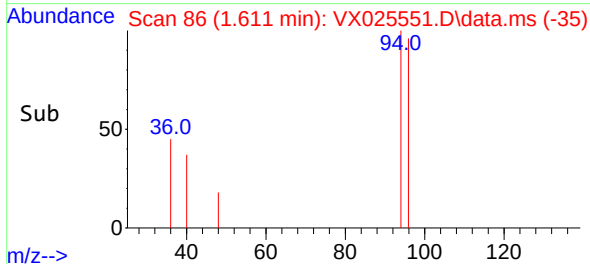
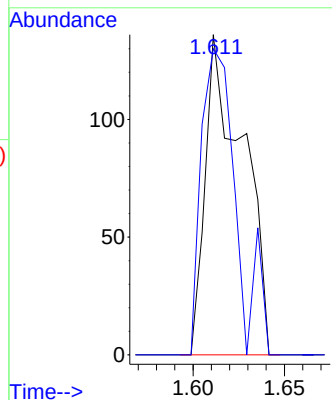
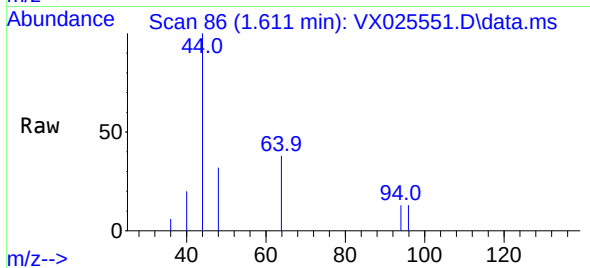




#5
Bromomethane
Concen: 0.394 ug/l
RT: 1.611 min Scan# 84
Delta R.T. 0.012 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

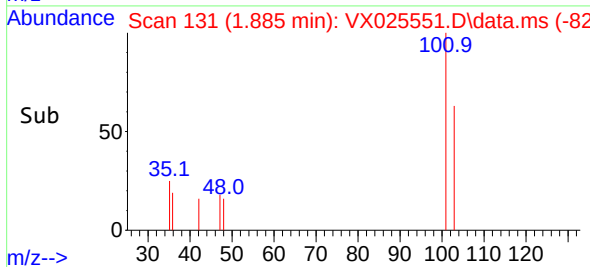
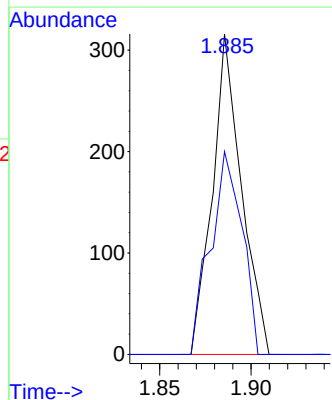
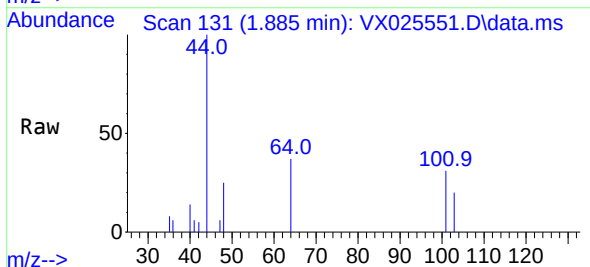
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20211201

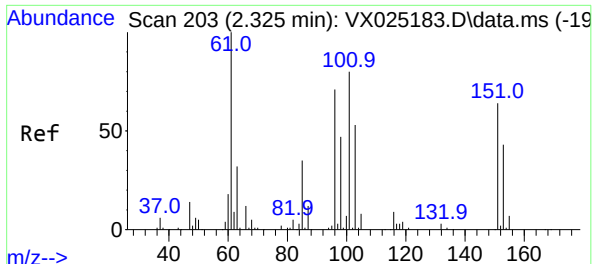
Tgt Ion: 94 Resp: 194
Ion Ratio Lower Upper
94 100
96 95.6 74.8 112.2



#7
Trichlorofluoromethane
Concen: 0.206 ug/l
RT: 1.885 min Scan# 131
Delta R.T. -0.001 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

Tgt Ion: 101 Resp: 351
Ion Ratio Lower Upper
101 100
103 63.3 51.0 76.6

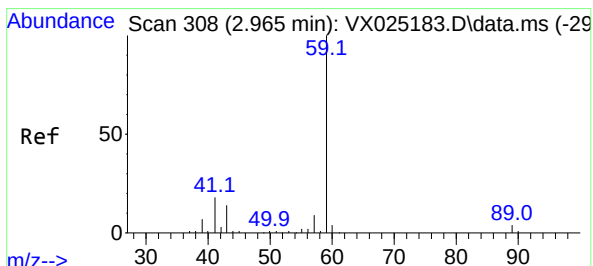
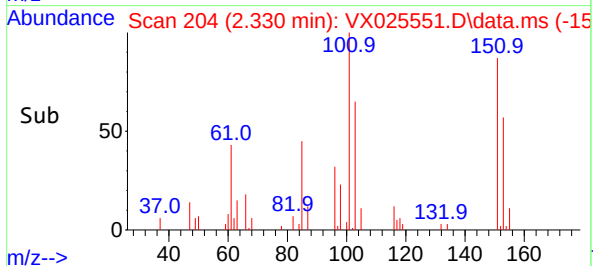
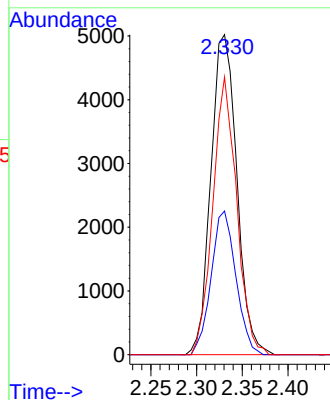
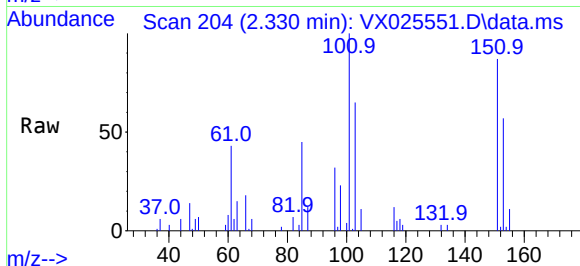




#9
1,1,2-Trichlorotrifluoroethane
Concen: 10.970 ug/l
RT: 2.330 min Scan# 20
Delta R.T. 0.005 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

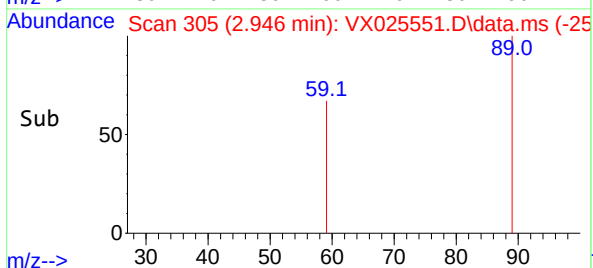
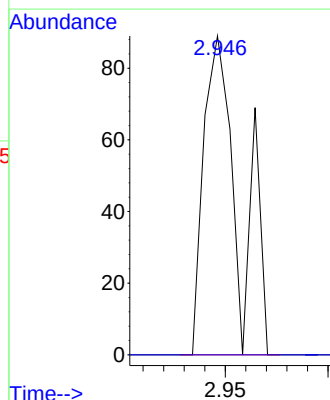
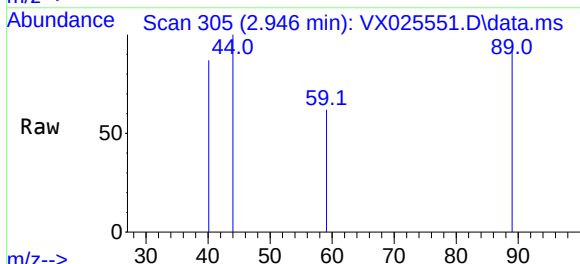
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20211201

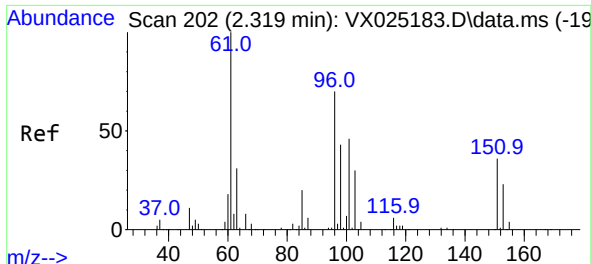
Tgt Ion:101 Resp: 9929
Ion Ratio Lower Upper
101 100
85 42.8 35.9 53.9
151 79.7 64.4 96.6



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.946 min Scan# 305
Delta R.T. -0.019 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

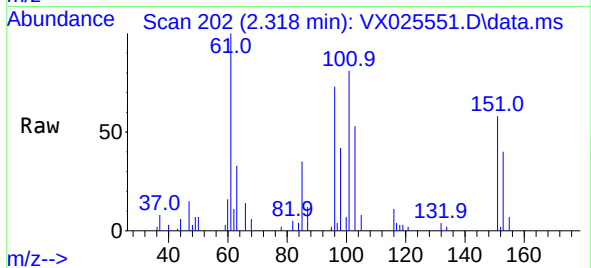
Tgt Ion: 59 Resp: 105
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#





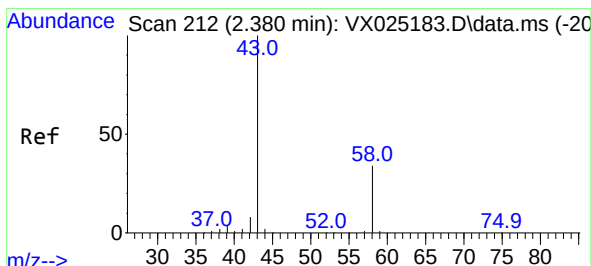
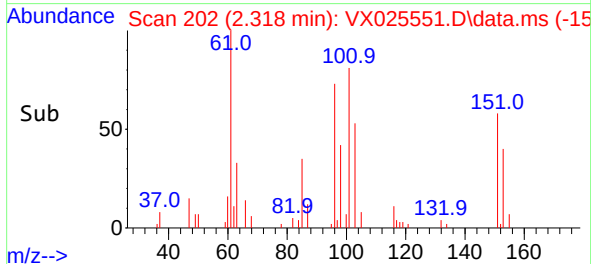
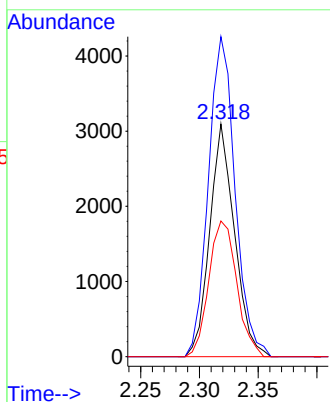
#12
1,1-Dichloroethene
Concen: 5.052 ug/l
RT: 2.318 min Scan# 202
Delta R.T. -0.001 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20211201



Tgt Ion: 96 Resp: 4554

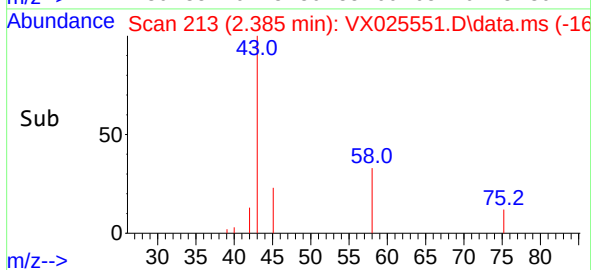
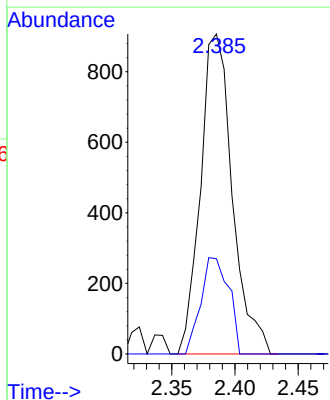
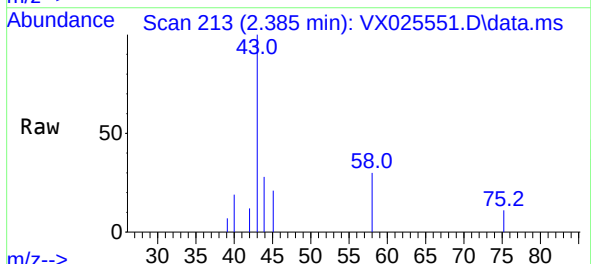
Ion	Ratio	Lower	Upper
96	100		
61	137.6	134.1	201.1
98	58.3	51.5	77.3

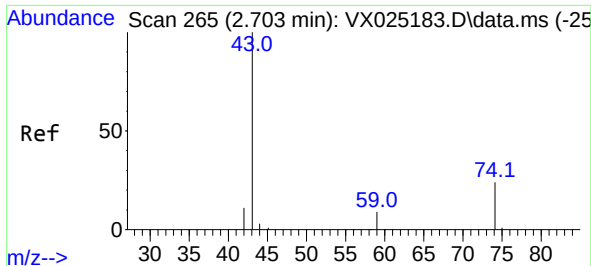


#16
Acetone
Concen: 2.795 ug/l
RT: 2.385 min Scan# 213
Delta R.T. 0.005 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

Tgt Ion: 43 Resp: 1592

Ion	Ratio	Lower	Upper
43	100		
58	29.8	24.0	36.0





#18

Methyl Acetate

Concen: 0.292 ug/l

RT: 2.544 min Scan# 21

Delta R.T. -0.159 min

Lab File: VX025551.D

Acq: 06 Dec 2021 16:06

Instrument :

MSVOA_X

ClientSampleId :

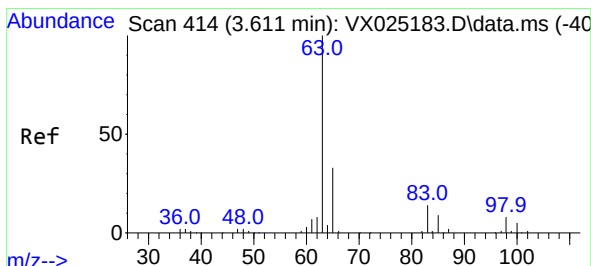
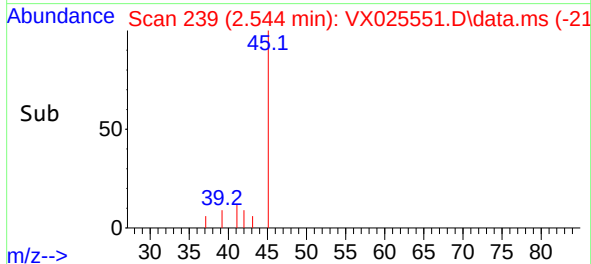
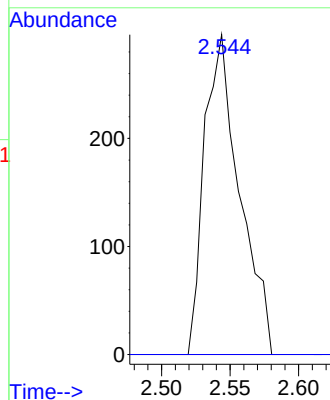
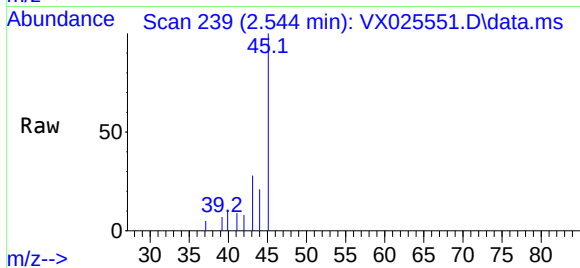
RE120D1-20211201

Tgt Ion: 43 Resp: 532

Ion Ratio Lower Upper

43 100

74 0.0 19.0 28.6#



#24

1,1-Dichloroethane

Concen: 0.801 ug/l

RT: 3.617 min Scan# 415

Delta R.T. 0.006 min

Lab File: VX025551.D

Acq: 06 Dec 2021 16:06

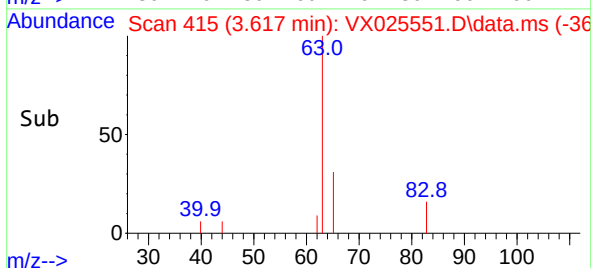
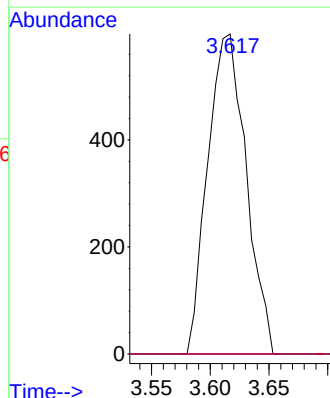
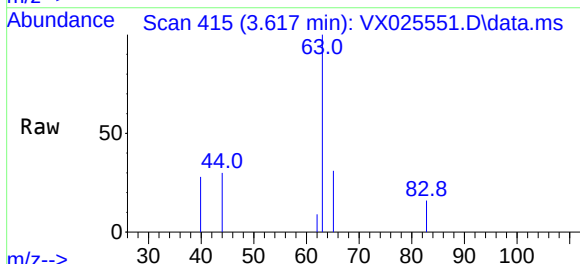
Tgt Ion: 63 Resp: 1360

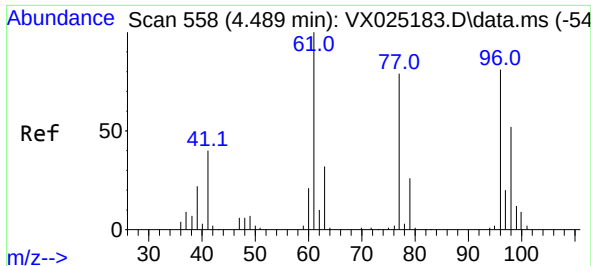
Ion Ratio Lower Upper

63 100

98 0.0 3.3 9.9#

100 0.0 2.1 6.2#

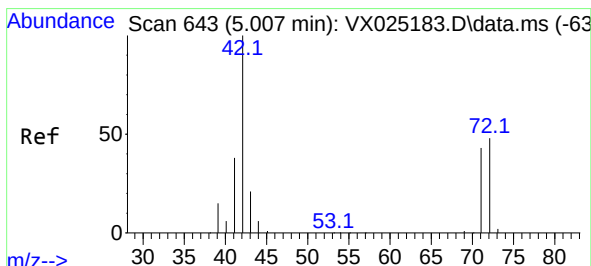
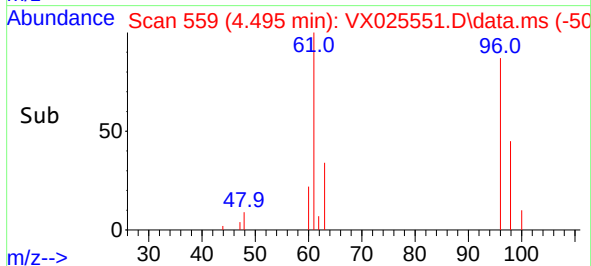
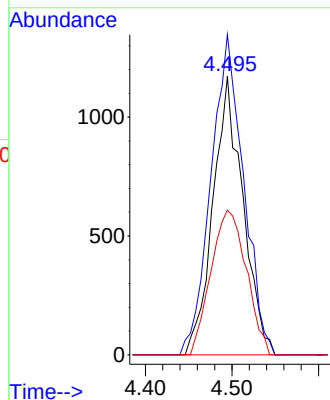
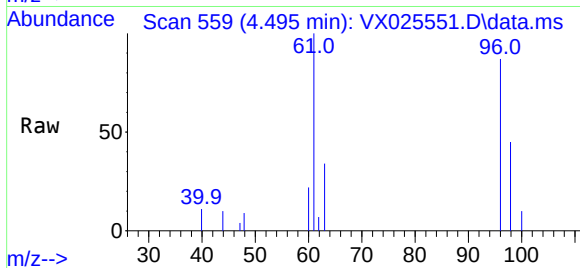




#27
cis-1,2-Dichloroethene
Concen: 2.439 ug/l
RT: 4.495 min Scan# 51
Delta R.T. 0.006 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

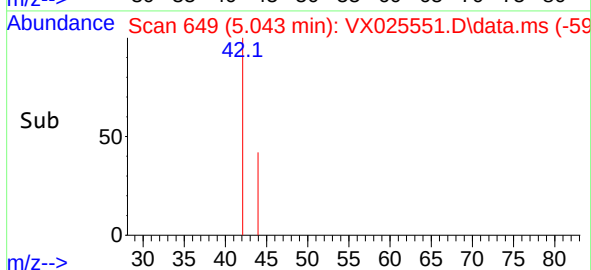
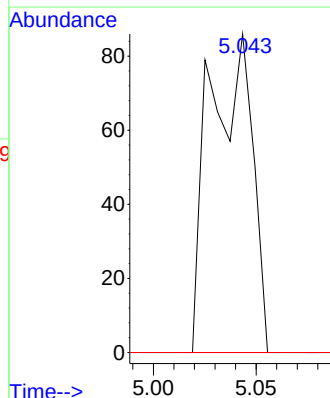
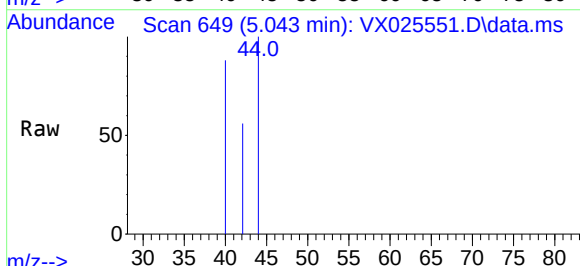
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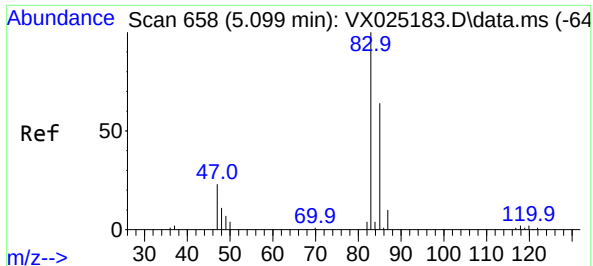
Tgt Ion: 96 Resp: 2813
Ion Ratio Lower Upper
96 100
61 125.2 0.0 302.2
98 61.4 0.0 131.4



#29
Tetrahydrofuran
Concen: 0.241 ug/l
RT: 5.043 min Scan# 649
Delta R.T. 0.036 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

Tgt Ion: 42 Resp: 123
Ion Ratio Lower Upper
42 100
72 0.0 36.1 54.1#
71 0.0 33.7 50.5#

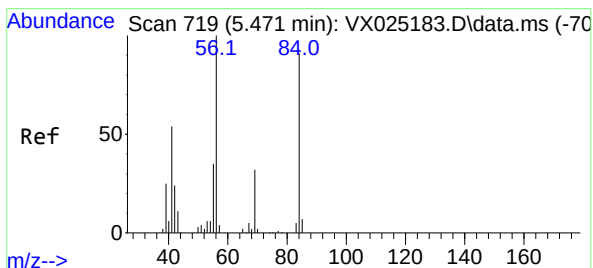
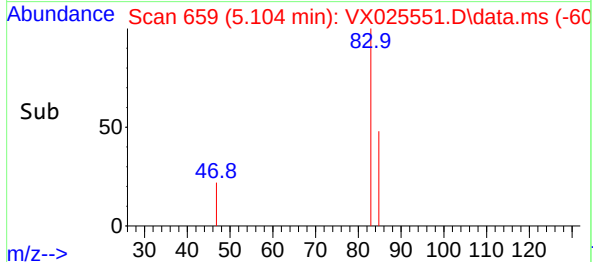
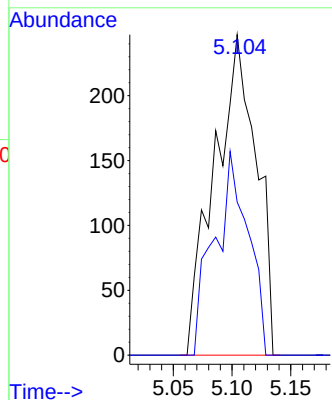
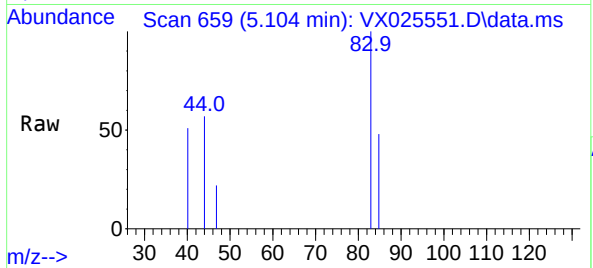




#30
Chloroform
Concen: 0.347 ug/l
RT: 5.104 min Scan# 613
Delta R.T. 0.005 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

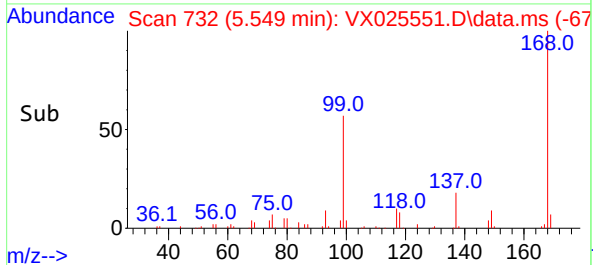
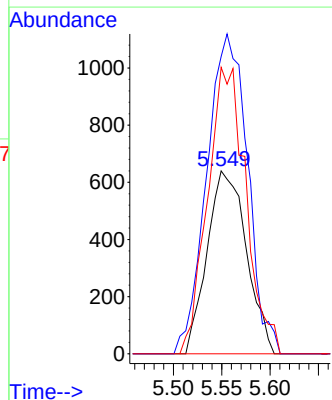
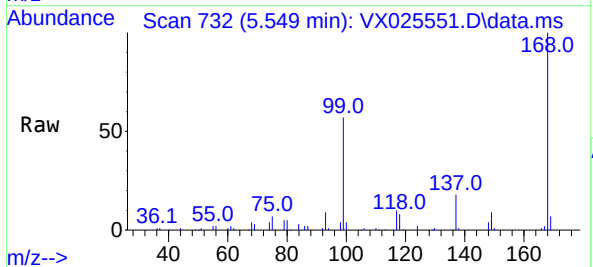
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20211201

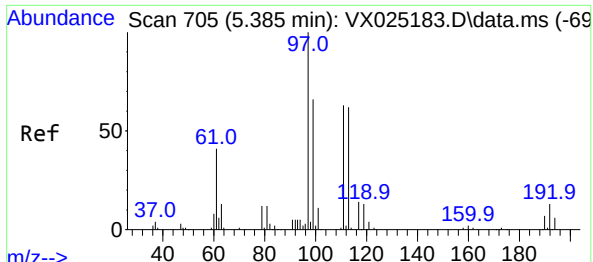
Tgt Ion: 83 Resp: 613
Ion Ratio Lower Upper
83 100
85 47.8 50.2 75.2#



#31
Cyclohexane
Concen: 1.140 ug/l
RT: 5.549 min Scan# 732
Delta R.T. 0.078 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

Tgt Ion: 56 Resp: 1806
Ion Ratio Lower Upper
56 100
69 162.5 24.2 36.2#
84 156.6 71.5 107.3#

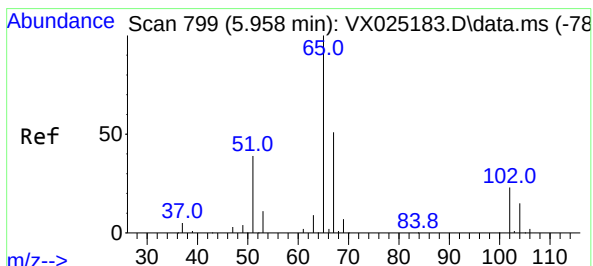
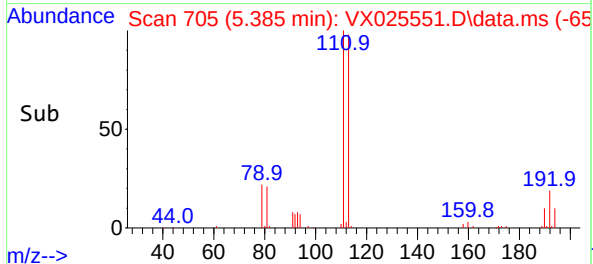
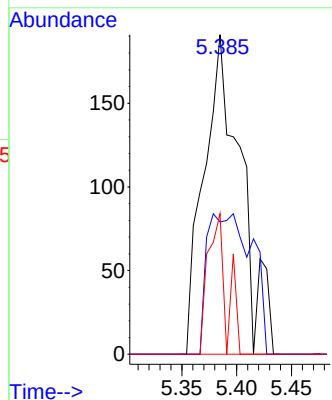
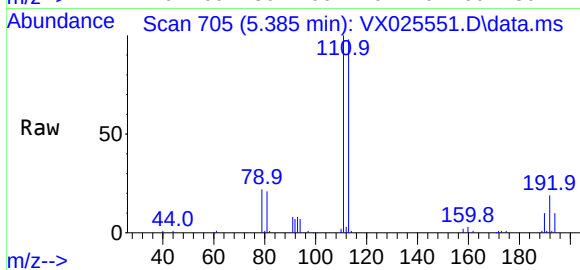




#32
1,1,1-Trichloroethane
Concen: 0.278 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

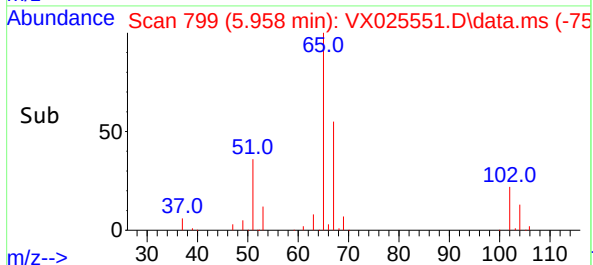
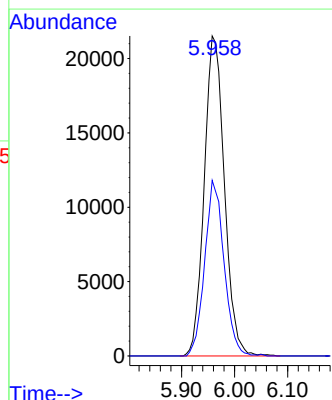
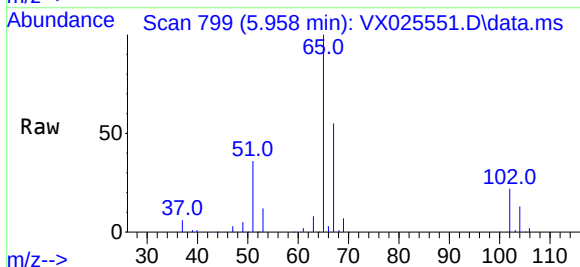
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20211201

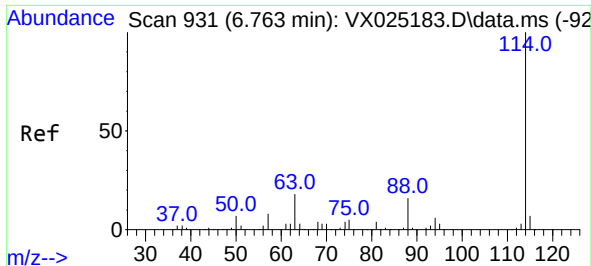
Tgt Ion: 97	Resp: 450
Ion Ratio	Lower Upper
97 100	
99 0.0	50.9 76.3#
61 22.0	35.0 52.4#



#33
1,2-Dichloroethane-d4
Concen: 55.482 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

Tgt Ion: 65	Resp: 56876
Ion Ratio	Lower Upper
65 100	
67 52.7	0.0 101.0

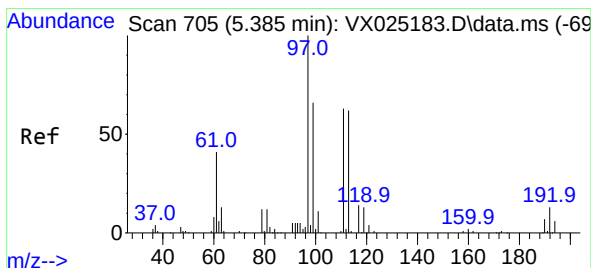
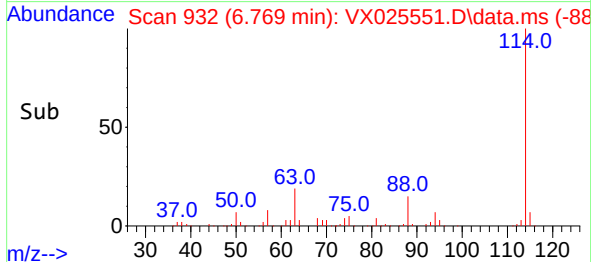
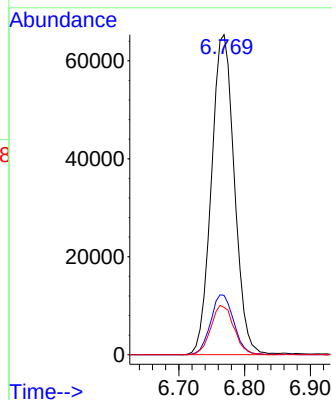
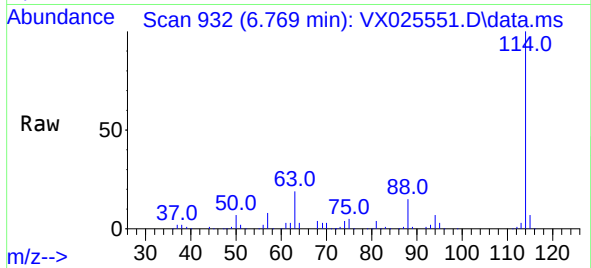




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

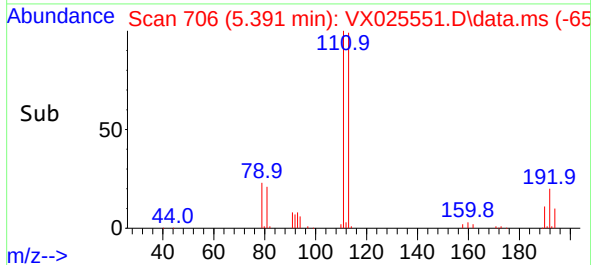
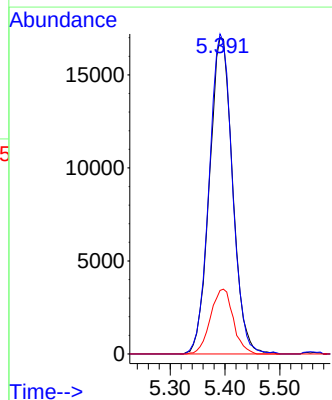
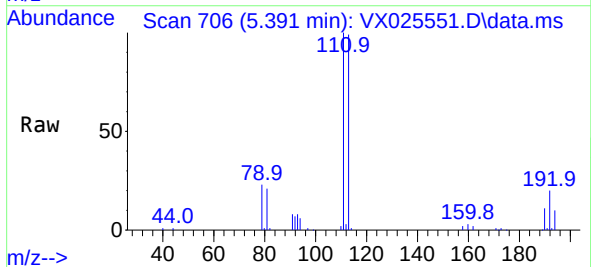
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20211201

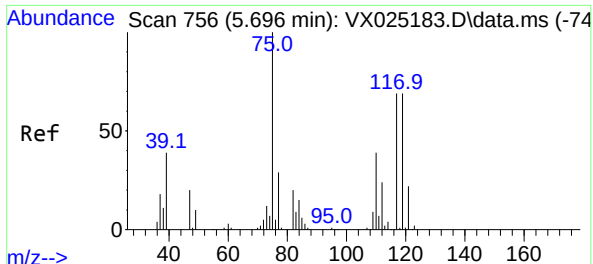
Tgt Ion:114 Resp: 158833
Ion Ratio Lower Upper
114 100
63 18.5 0.0 41.0
88 14.8 0.0 34.8



#35
Dibromofluoromethane
Concen: 51.067 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.006 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

Tgt Ion:113 Resp: 49767
Ion Ratio Lower Upper
113 100
111 101.2 82.1 123.1
192 20.2 15.6 23.4

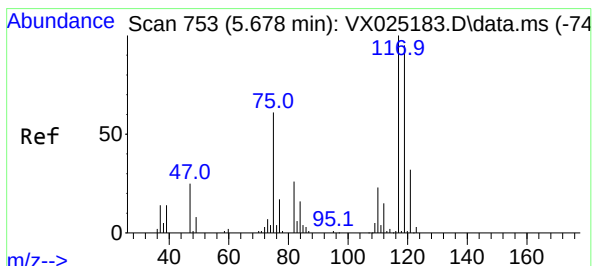
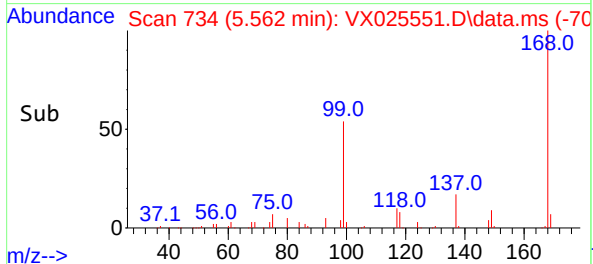
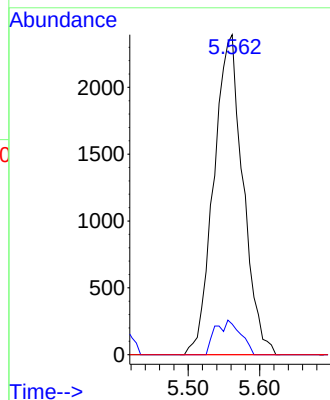
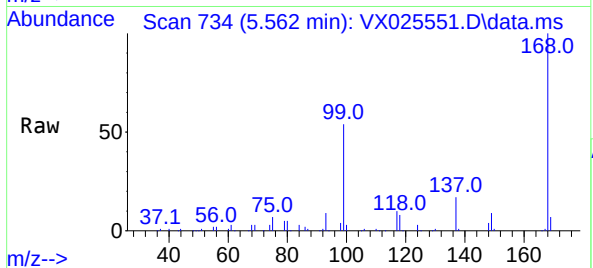




#36
1,1-Dichloropropene
Concen: 4.896 ug/l
RT: 5.562 min Scan# 711
Delta R.T. -0.134 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

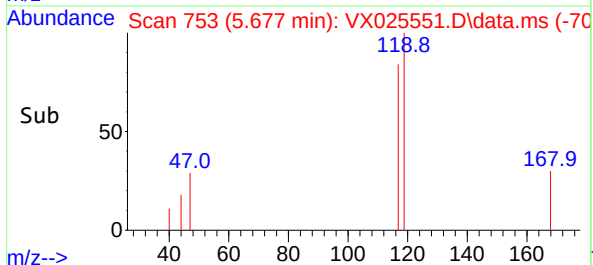
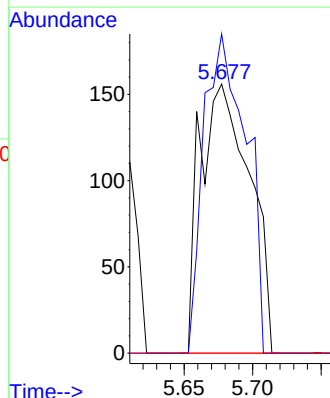
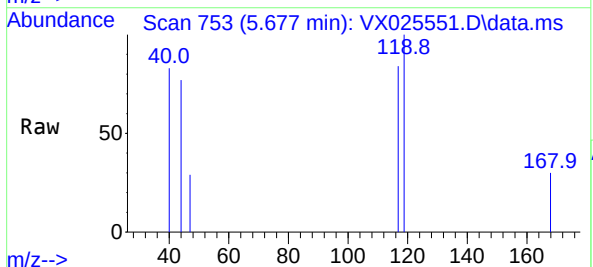
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20211201

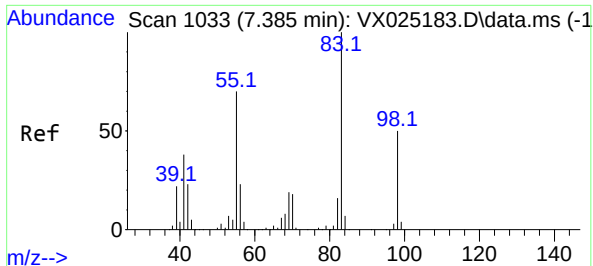
Tgt Ion: 75 Resp: 6785
Ion Ratio Lower Upper
75 100
110 9.3 18.1 54.3#
77 0.0 24.4 36.6#



#38
Carbon Tetrachloride
Concen: 0.259 ug/l
RT: 5.677 min Scan# 753
Delta R.T. -0.001 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

Tgt Ion: 117 Resp: 395
Ion Ratio Lower Upper
117 100
119 118.6 75.6 113.4#
121 0.0 23.7 35.5#





#39

Methylcyclohexane

Concen: 4.168 ug/l

RT: 7.128 min Scan# 991

Delta R.T. -0.257 min

Lab File: VX025551.D

Acq: 06 Dec 2021 16:06

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20211201

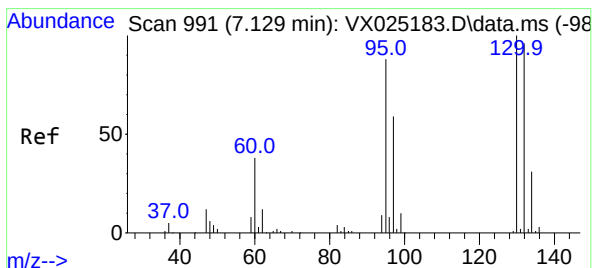
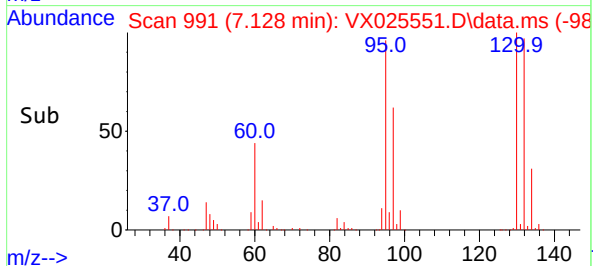
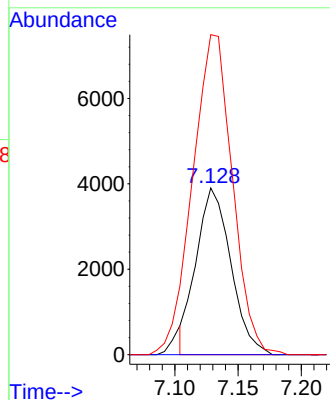
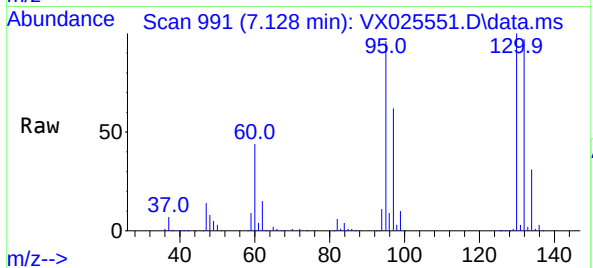
Tgt Ion: 83 Resp: 7409

Ion Ratio Lower Upper

83 100

55 0.0 60.8 91.2#

98 190.3 37.0 55.4#



#44

Trichloroethene

Concen: 543.925 ug/l

RT: 7.128 min Scan# 991

Delta R.T. -0.001 min

Lab File: VX025551.D

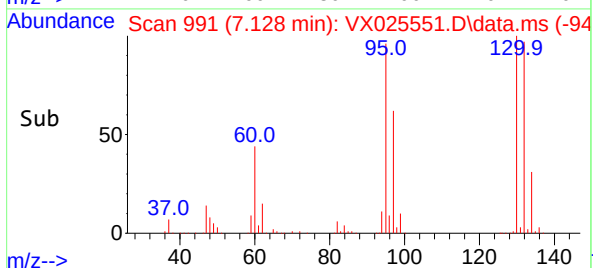
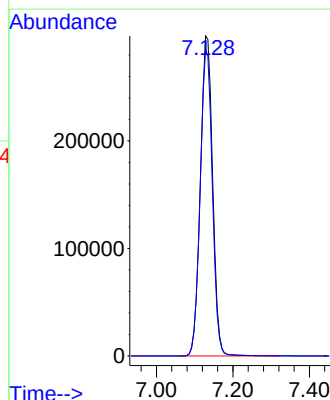
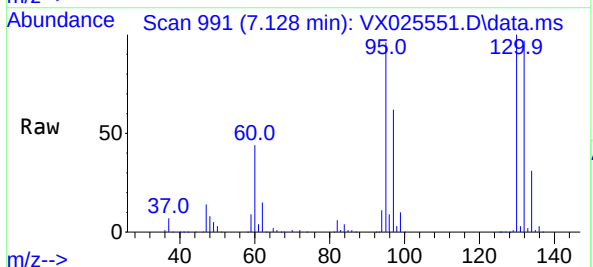
Acq: 06 Dec 2021 16:06

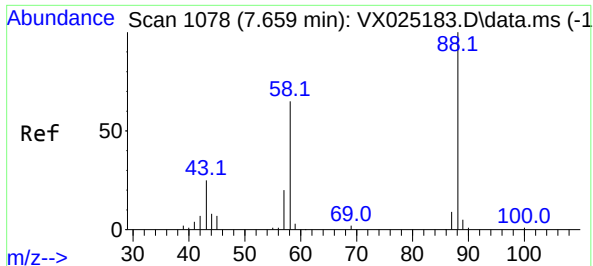
Tgt Ion:130 Resp: 663304

Ion Ratio Lower Upper

130 100

95 95.9 0.0 196.8





#49

1,4-Dioxane

Concen: 22.957 ug/l

RT: 7.671 min Scan# 1078

Delta R.T. 0.012 min

Lab File: VX025551.D

Acq: 06 Dec 2021 16:06

Instrument :

MSVOA_X

ClientSampleId :

RE120D1-20211201

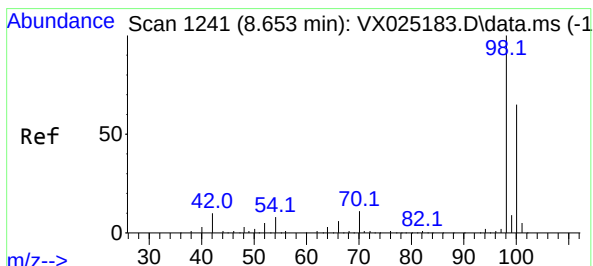
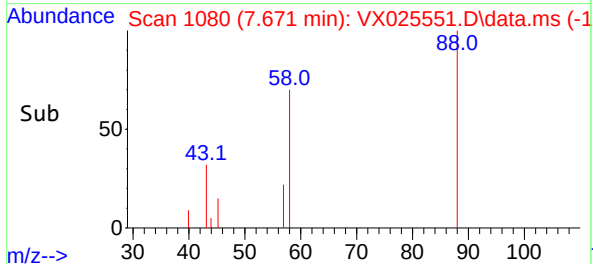
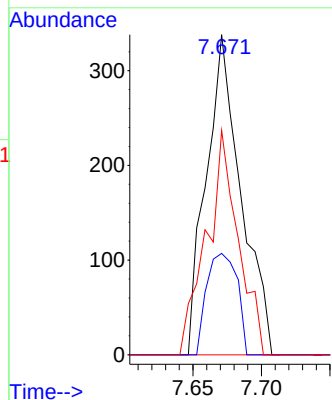
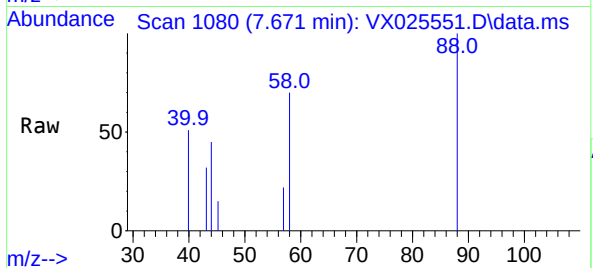
Tgt Ion: 88 Resp: 597

Ion Ratio Lower Upper

88 100

43 27.6 27.0 40.6

58 63.7 55.2 82.8



#50

Toluene-d8

Concen: 50.256 ug/l

RT: 8.652 min Scan# 1241

Delta R.T. -0.001 min

Lab File: VX025551.D

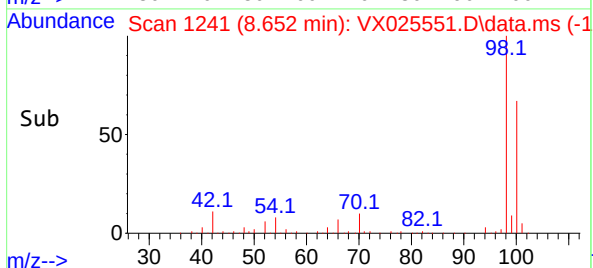
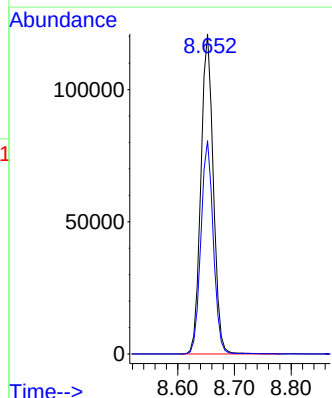
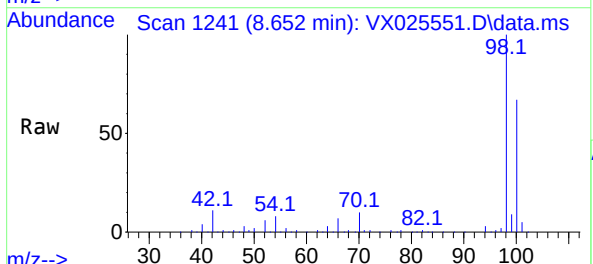
Acq: 06 Dec 2021 16:06

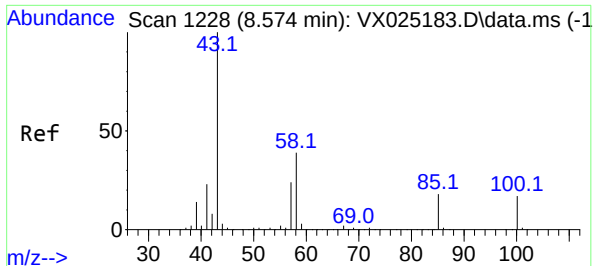
Tgt Ion: 98 Resp: 184148

Ion Ratio Lower Upper

98 100

100 66.2 51.4 77.0





#51

4-Methyl-2-Pentanone

Concen: 0.513 ug/l

RT: 8.646 min Scan# 11

Delta R.T. 0.072 min

Lab File: VX025551.D

Acq: 06 Dec 2021 16:06

Instrument :

MSVOA_X

ClientSampleId :

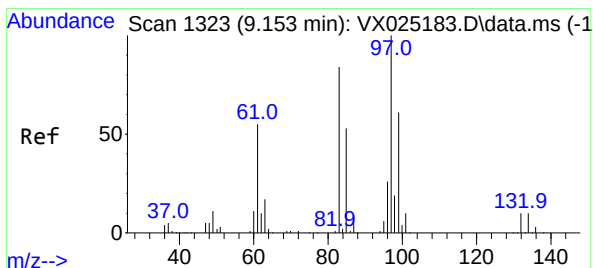
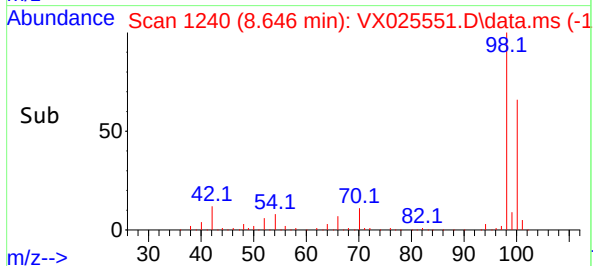
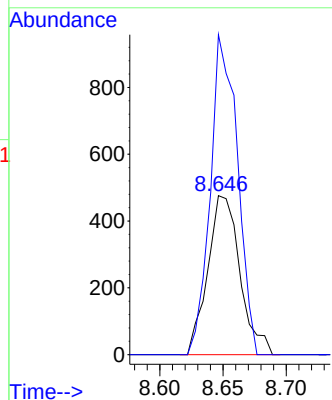
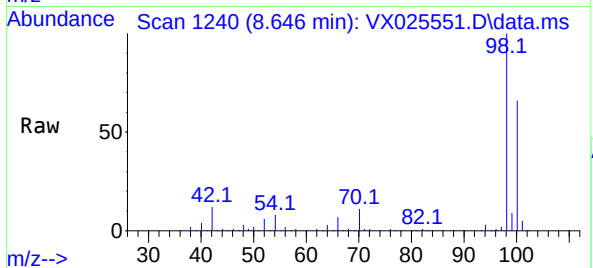
RE120D1-20211201

Tgt Ion: 43 Resp: 844

Ion Ratio Lower Upper

43 100

58 169.4 30.9 46.3#



#55

1,1,2-Trichloroethane

Concen: 0.435 ug/l

RT: 9.152 min Scan# 1323

Delta R.T. -0.001 min

Lab File: VX025551.D

Acq: 06 Dec 2021 16:06

Tgt Ion: 97 Resp: 474

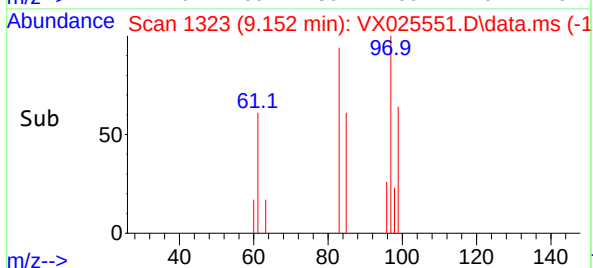
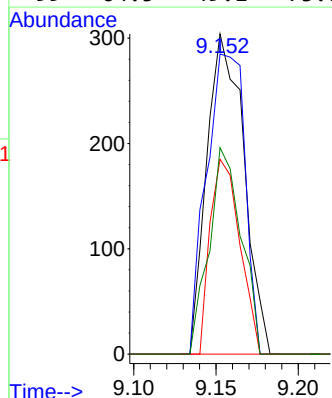
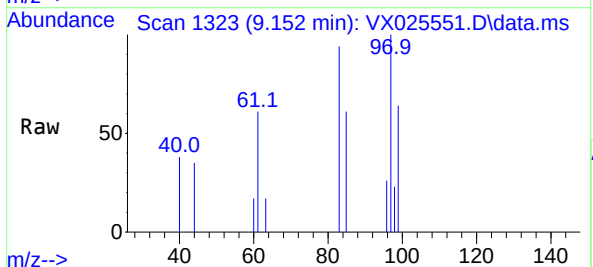
Ion Ratio Lower Upper

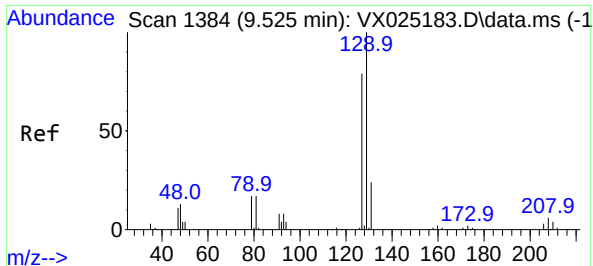
97 100

83 93.8 69.2 103.8

85 60.9 43.3 64.9

99 64.5 49.1 73.7

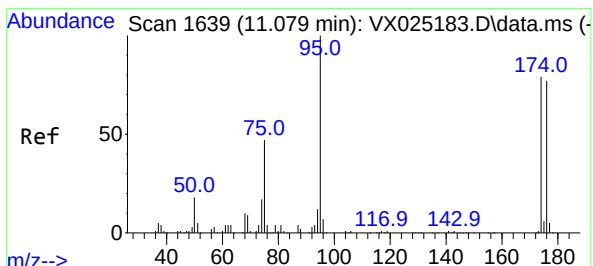
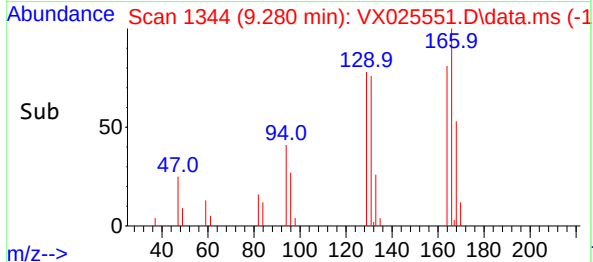
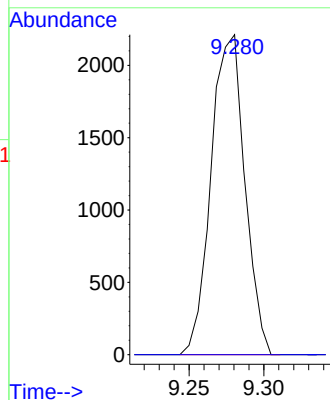
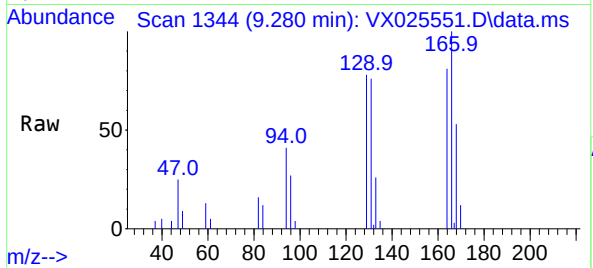




#60
Dibromochloromethane
Concen: 2.769 ug/l
RT: 9.280 min Scan# 11
Delta R.T. -0.245 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

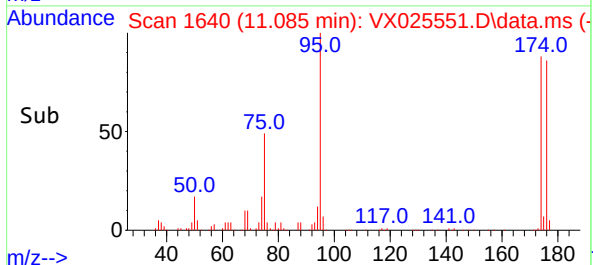
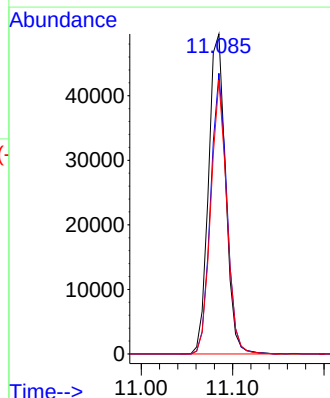
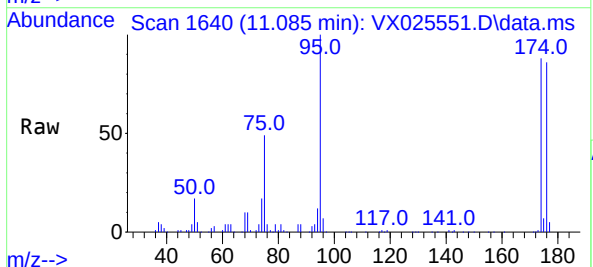
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20211201

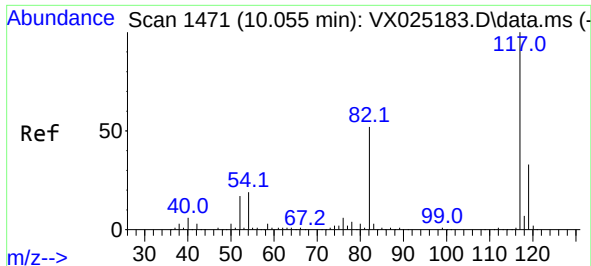
Tgt Ion:129 Resp: 3471
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#



#62
4-Bromofluorobenzene
Concen: 46.244 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.006 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

Tgt Ion: 95 Resp: 64103
Ion Ratio Lower Upper
95 100
174 83.7 0.0 158.0
176 80.3 0.0 153.6

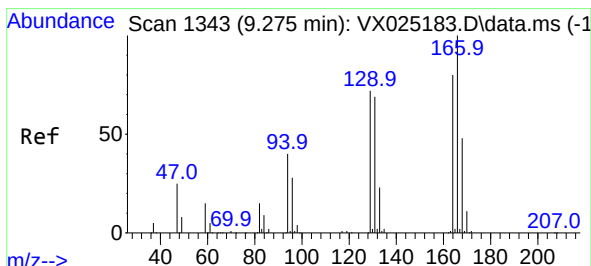
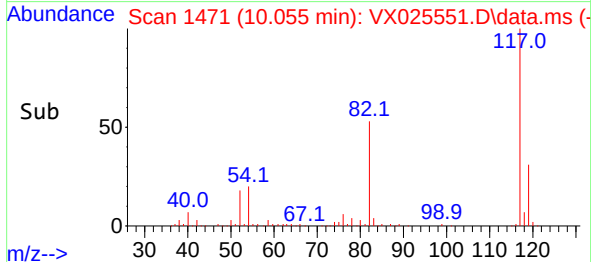
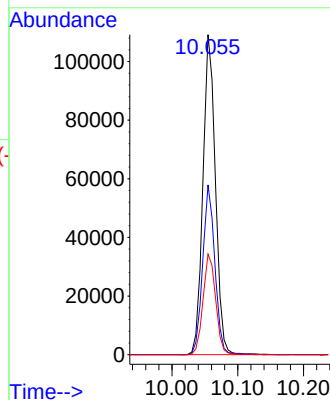
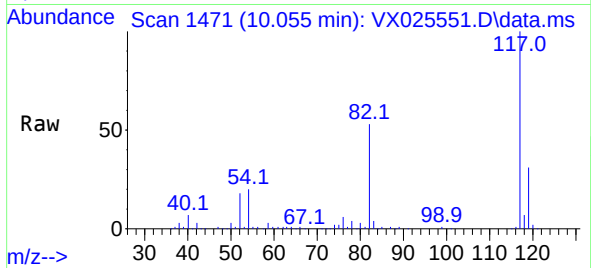




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

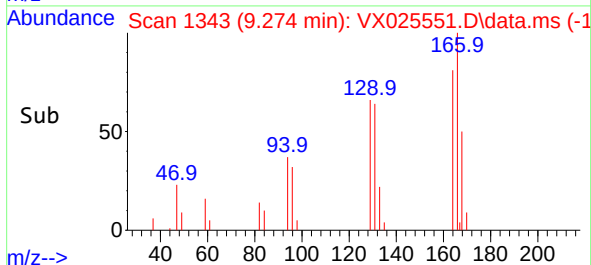
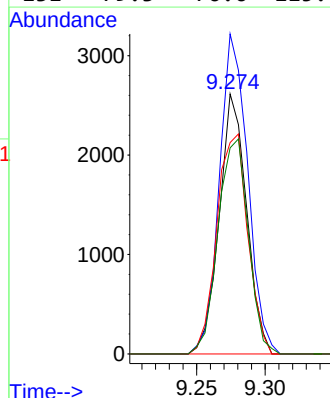
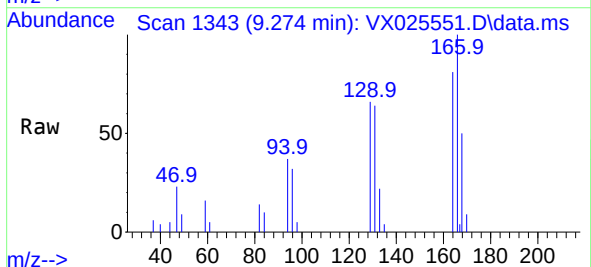
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20211201

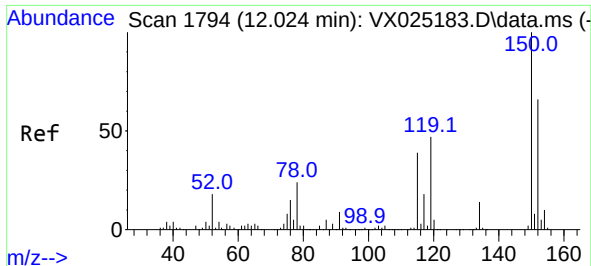
Tgt Ion:117 Resp: 144096
Ion Ratio Lower Upper
117 100
82 53.0 44.6 67.0
119 31.5 24.8 37.2



#64
Tetrachloroethene
Concen: 3.050 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.001 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

Tgt Ion:164 Resp: 3624
Ion Ratio Lower Upper
164 100
166 123.1 103.2 154.8
129 81.3 81.0 121.4
131 79.3 76.6 115.0

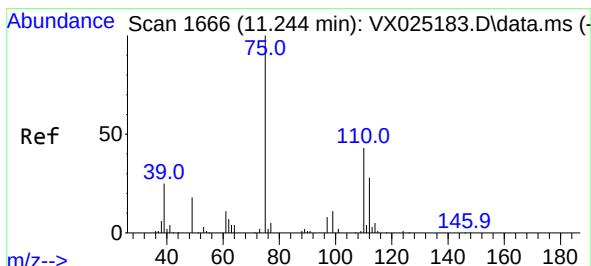
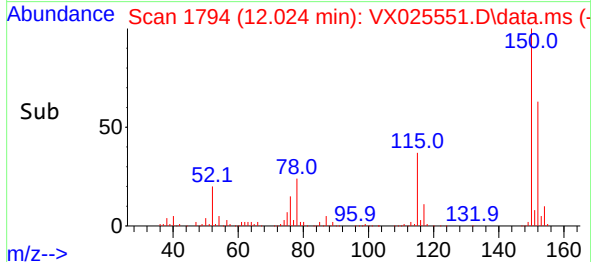
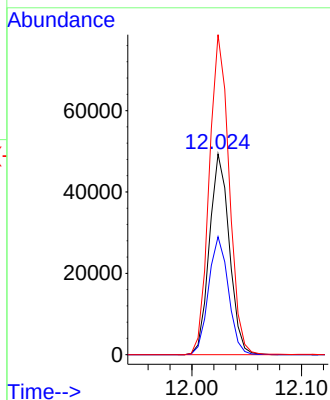
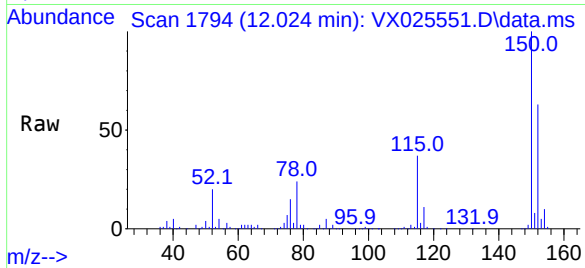




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

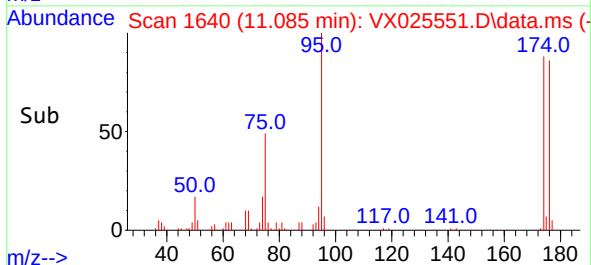
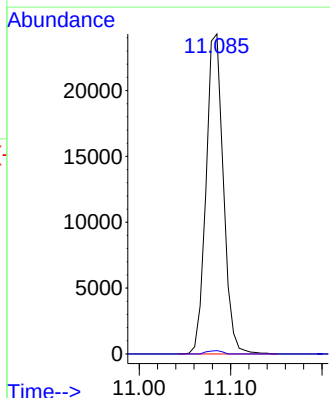
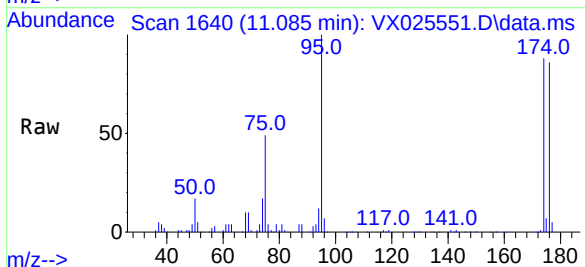
Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20211201

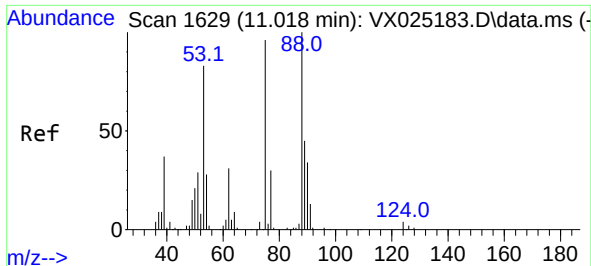
Tgt Ion:152 Resp: 62265
Ion Ratio Lower Upper
152 100
115 58.6 43.3 129.8
150 159.5 0.0 351.2



#76
1,2,3-Trichloropropane
Concen: 24.943 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. -0.159 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

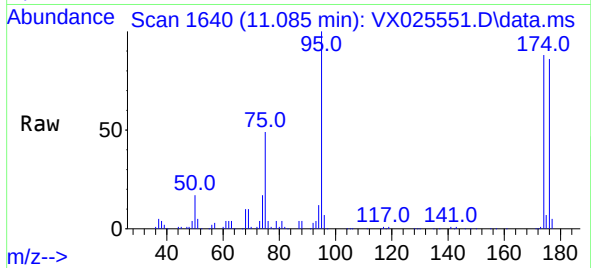
Tgt Ion: 75 Resp: 31804
Ion Ratio Lower Upper
75 100
77 0.9 20.0 59.9#





#81
trans-1,4-Dichloro-2-butene
Concen: 62.836 ug/l
RT: 11.085 min Scan# 1
Delta R.T. 0.067 min
Lab File: VX025551.D
Acq: 06 Dec 2021 16:06

Instrument :
MSVOA_X
ClientSampleId :
RE120D1-20211201



Tgt Ion: 75 Resp: 31804
Ion Ratio Lower Upper
75 100
53 0.0 81.9 122.9#
89 0.0 38.2 57.2#

