

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX083023\
 Data File : VX037411.D
 Acq On : 31 Aug 2023 07:03
 Operator : JC/MD
 Sample : 04128-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D1-20230821

Quant Time: Aug 31 09:23:03 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 18 09:30:38 2023
 Response via : Initial Calibration

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

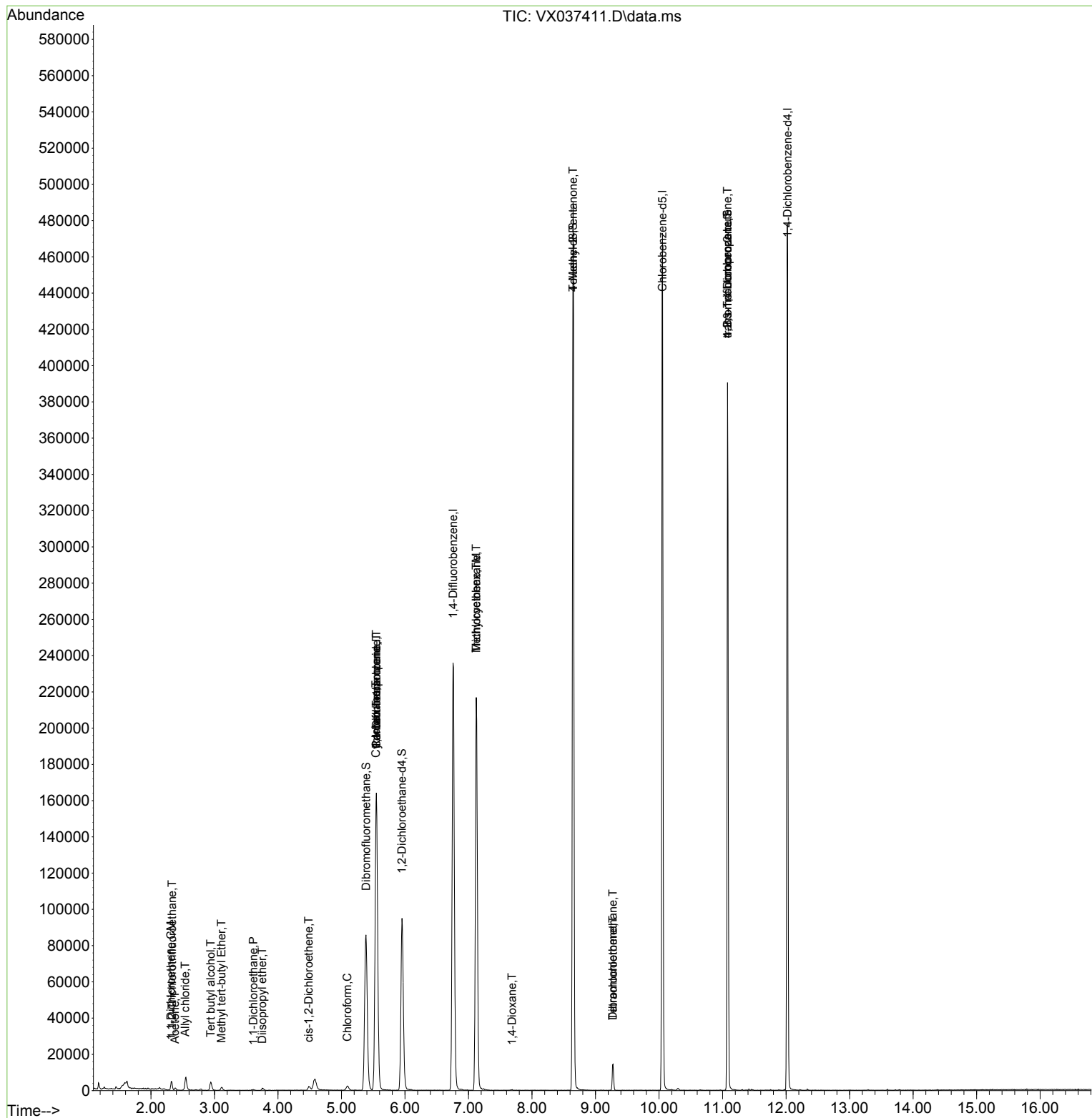
Internal Standards						
1) Pentafluorobenzene	5.550	168	155345	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	257157	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	226806	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	100131	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	93946	41.948	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	83.900%		
35) Dibromofluoromethane	5.385	113	78207	45.921	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	91.840%		
50) Toluene-d8	8.647	98	298149	48.262	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	96.520%		
62) 4-Bromofluorobenzene	11.079	95	107581	44.313	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	88.620%		
Target Compounds					Qvalue	
9) 1,1,2-Trichlorotrifluo...	2.331	101	1834	1.117	ug/l	97
11) Tert butyl alcohol	2.940	59	2696	5.132	ug/l #	78
12) 1,1-Dichloroethene	2.312	96	394	0.246	ug/l	97
14) Allyl chloride	2.538	41	859	0.347	ug/l #	79
16) Acetone	2.379	43	1327	1.515	ug/l #	84
19) Methyl tert-butyl Ether	3.111	73	1993	0.329	ug/l #	87
22) Diisopropyl ether	3.751	45	1156	0.228	ug/l #	70
24) 1,1-Dichloroethane	3.611	63	743	0.233	ug/l #	83
27) cis-1,2-Dichloroethene	4.483	96	1551	0.724	ug/l	82
30) Chloroform	5.092	83	3215	0.899	ug/l	94
31) Cyclohexane	5.544	56	2943	1.169	ug/l #	1
36) 1,1-Dichloropropene	5.550	75	12085	4.995	ug/l #	50
38) Carbon Tetrachloride	5.550	117	16329	6.213	ug/l #	15
39) Methylcyclohexane	7.123	83	1063	0.418	ug/l #	1
44) Trichloroethene	7.123	130	88986	45.223	ug/l	94
49) 1,4-Dioxane	7.683	88	335	6.500	ug/l #	80
51) 4-Methyl-2-Pentanone	8.647	43	1063	0.446	ug/l #	1
60) Dibromochloromethane	9.275	129	2736	1.376	ug/l #	11
64) Tetrachloroethene	9.275	164	2861	1.729	ug/l	94
76) 1,2,3-Trichloropropane	11.079	75	52741	24.732	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	52741	69.079	ug/l #	5

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

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081723W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 18 09:30:38 2023
Response via : Initial Calibration

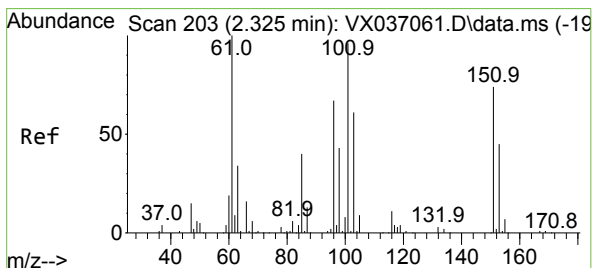
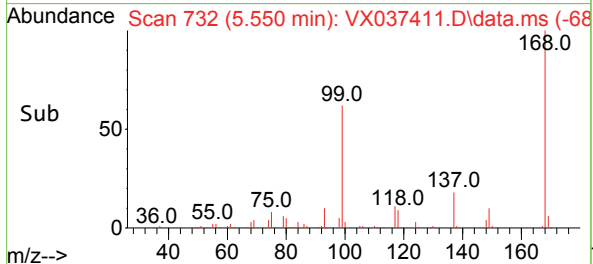
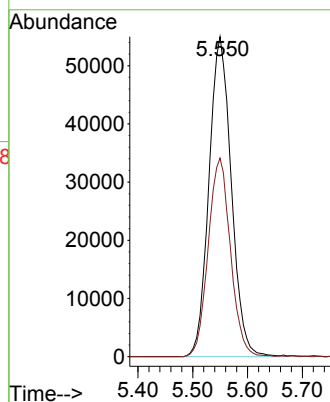
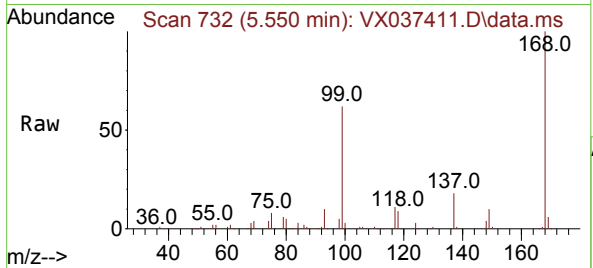




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

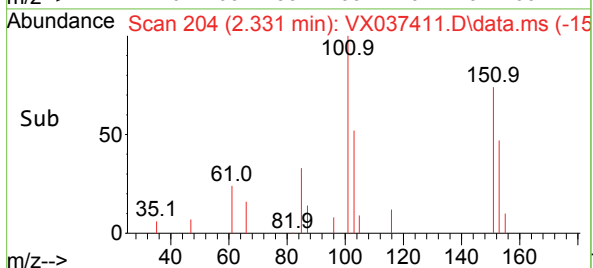
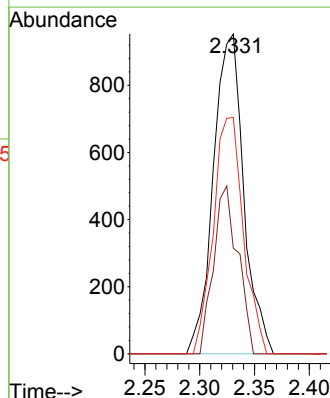
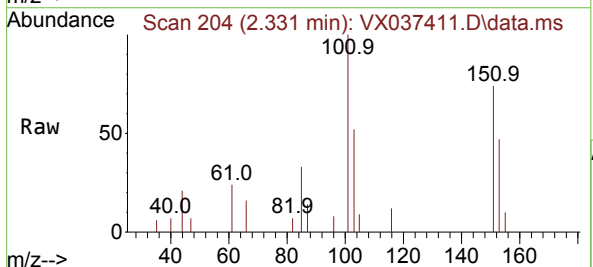
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20230821

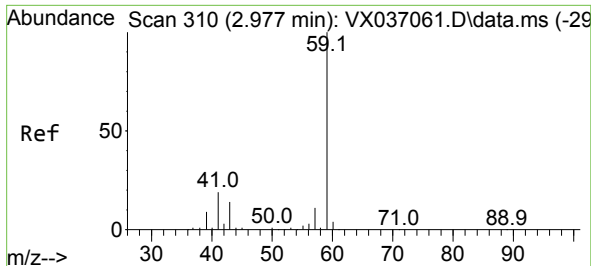
Tgt Ion:168 Resp: 155345
Ion Ratio Lower Upper
168 100
99 62.0 56.6 85.0



#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.117 ug/l
RT: 2.331 min Scan# 204
Delta R.T. 0.006 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

Tgt Ion:101 Resp: 1834
Ion Ratio Lower Upper
101 100
85 42.0 37.0 55.6
151 73.1 58.6 87.8

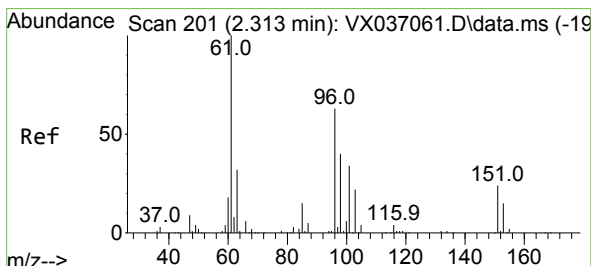
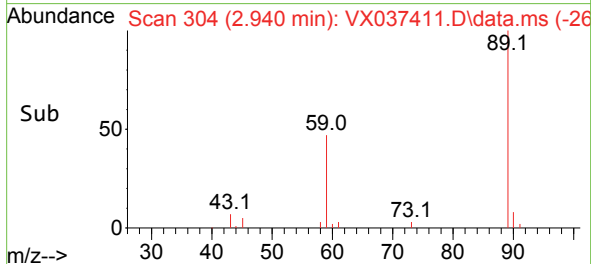
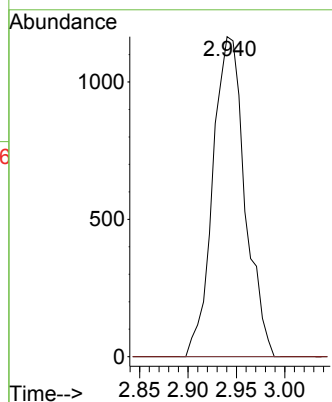
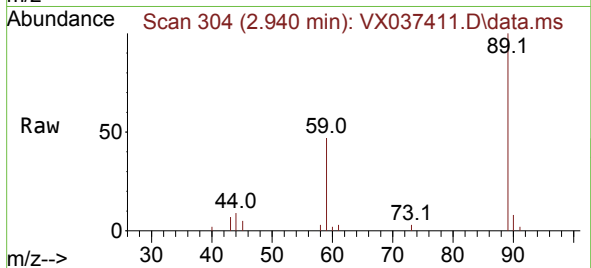




#11
Tert butyl alcohol
Concen: 5.132 ug/l
RT: 2.940 min Scan# 304
Delta R.T. -0.037 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

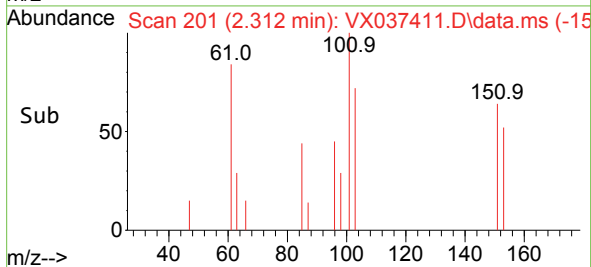
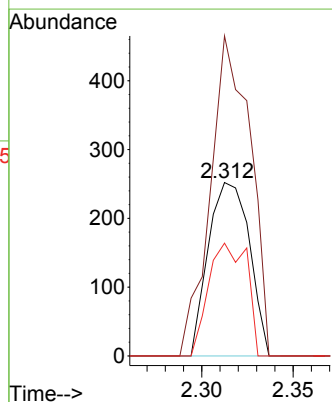
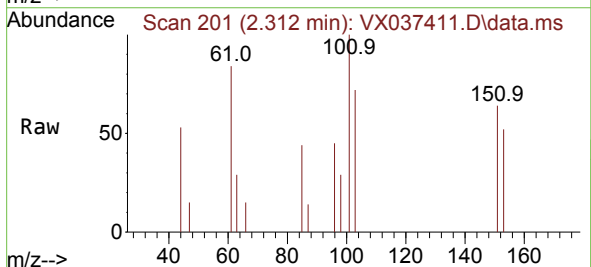
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20230821

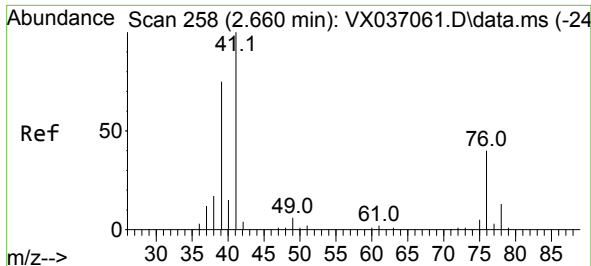
Tgt Ion: 59 Resp: 2696
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#



#12
1,1-Dichloroethene
Concen: 0.246 ug/l
RT: 2.312 min Scan# 201
Delta R.T. -0.000 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

Tgt Ion: 96 Resp: 394
Ion Ratio Lower Upper
96 100
61 184.5 144.6 216.8
98 65.1 50.4 75.6

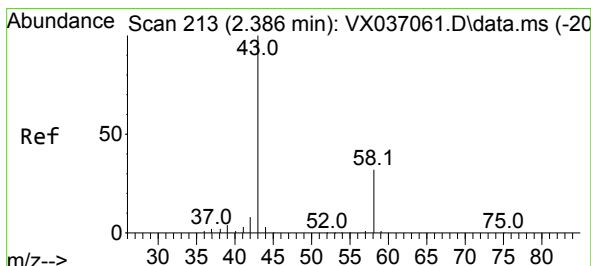
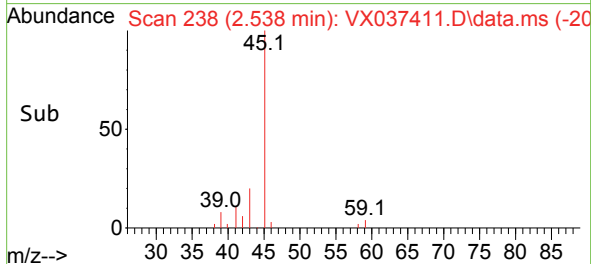
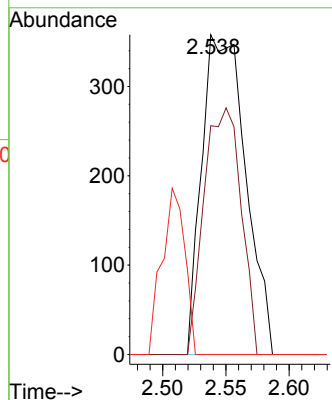
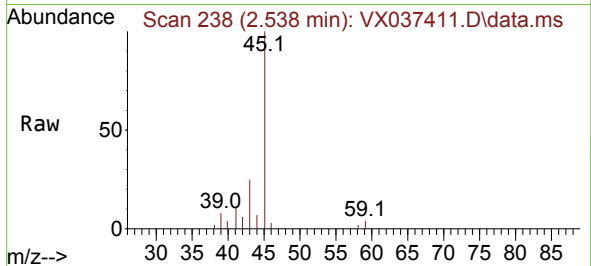




#14
 Allyl chloride
 Concen: 0.347 ug/l
 RT: 2.538 min Scan# 212
 Delta R.T. -0.122 min
 Lab File: VX037411.D
 Acq: 31 Aug 2023 07:03

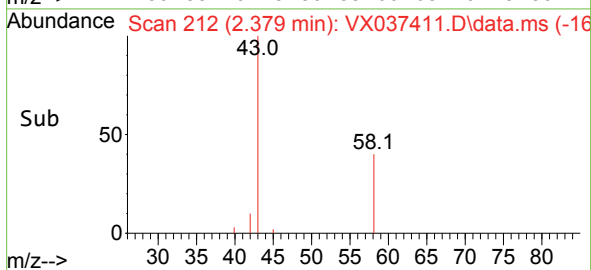
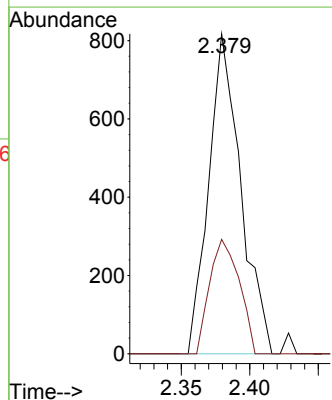
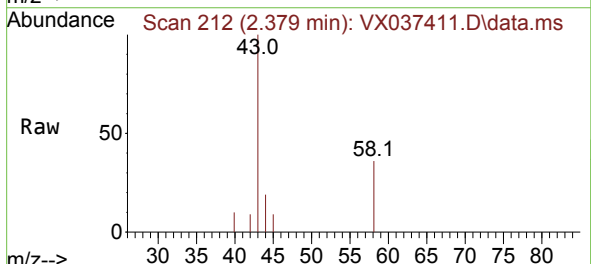
Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D1-20230821

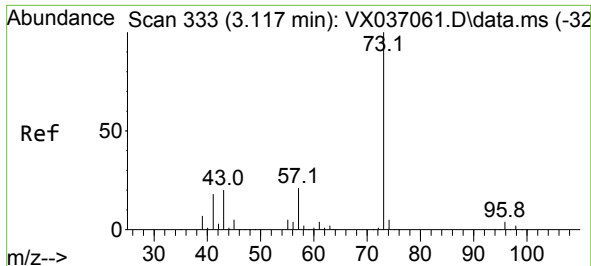
Tgt Ion: 41 Resp: 859
 Ion Ratio Lower Upper
 41 100
 39 65.3 55.8 83.6
 76 0.0 24.3 36.5#



#16
 Acetone
 Concen: 1.515 ug/l
 RT: 2.379 min Scan# 212
 Delta R.T. -0.006 min
 Lab File: VX037411.D
 Acq: 31 Aug 2023 07:03

Tgt Ion: 43 Resp: 1327
 Ion Ratio Lower Upper
 43 100
 58 35.7 21.9 32.9#

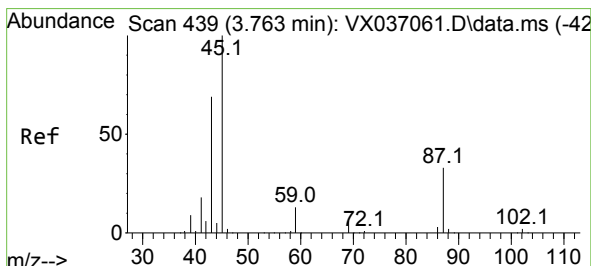
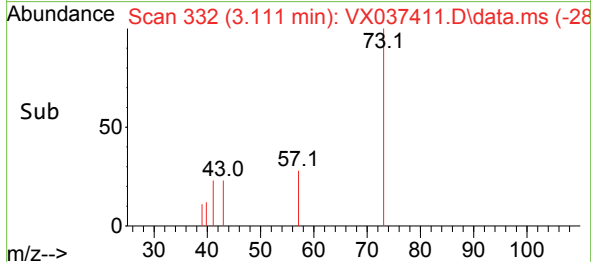
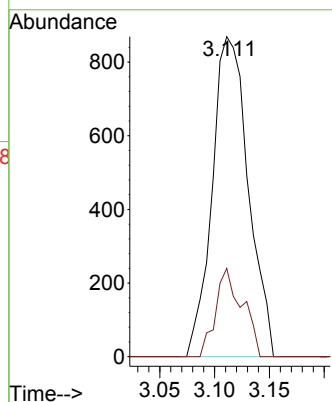
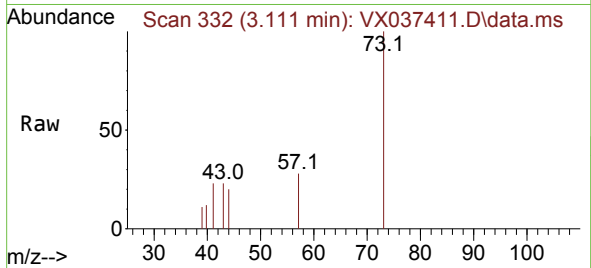




#19
Methyl tert-butyl Ether
Concen: 0.329 ug/l
RT: 3.111 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

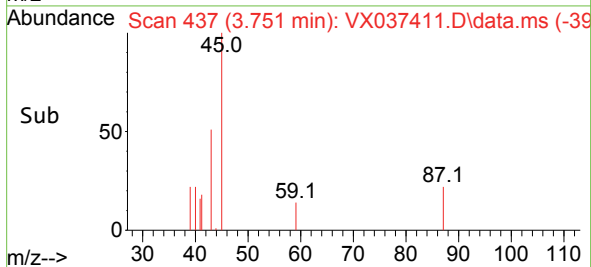
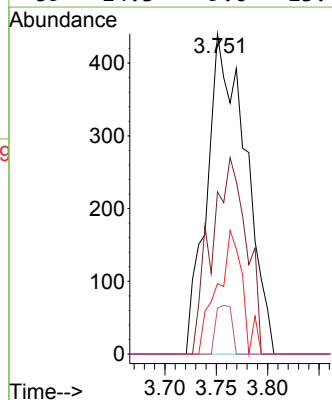
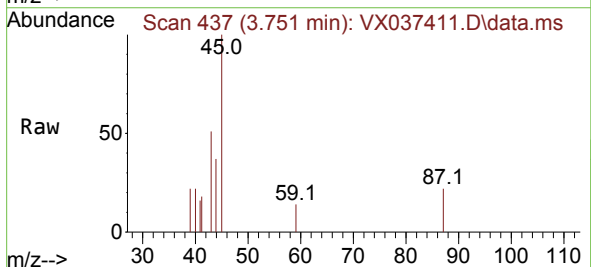
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20230821

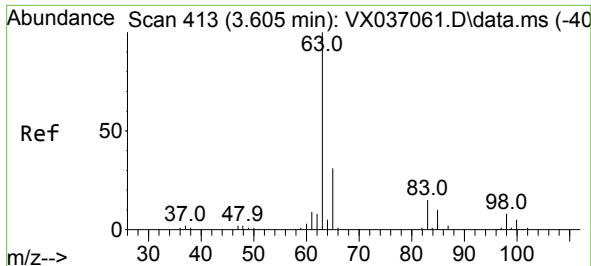
Tgt Ion: 73 Resp: 1993
Ion Ratio Lower Upper
73 100
57 27.6 17.3 25.9#



#22
Diisopropyl ether
Concen: 0.228 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.012 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

Tgt Ion: 45 Resp: 1156
Ion Ratio Lower Upper
45 100
43 50.7 69.7 104.5#
87 22.0 20.8 31.2
59 14.3 9.0 13.4#

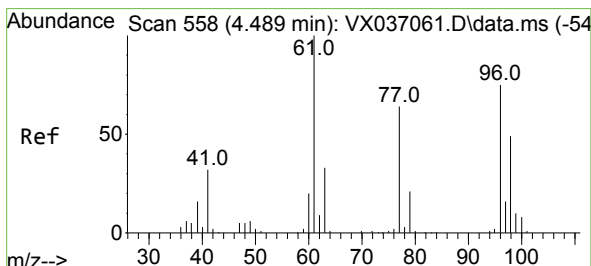
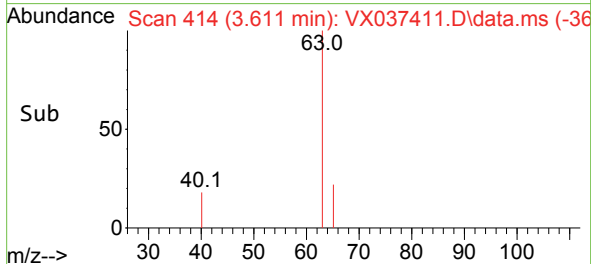
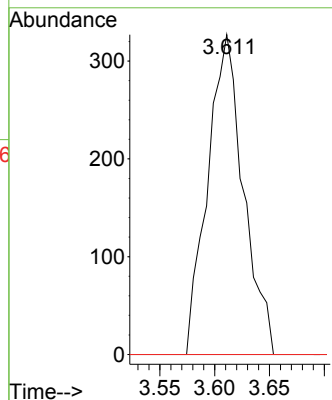
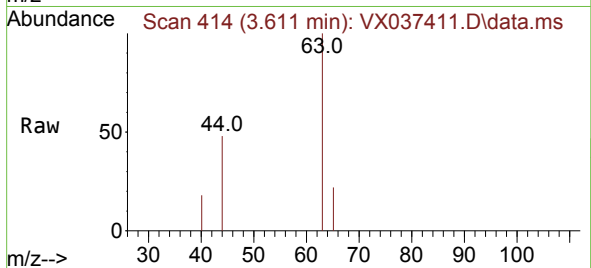




#24
1,1-Dichloroethane
Concen: 0.233 ug/l
RT: 3.611 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

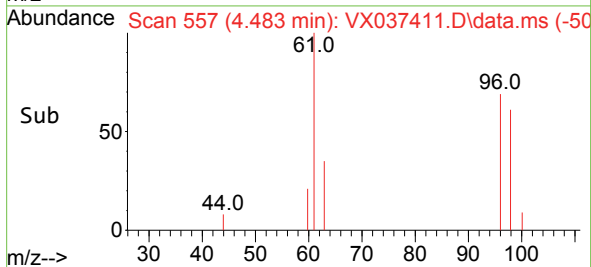
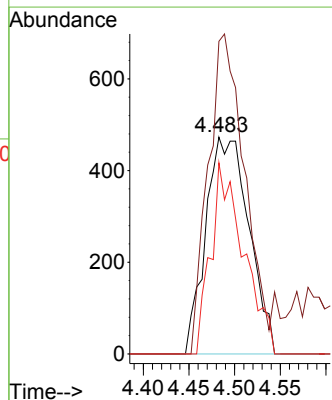
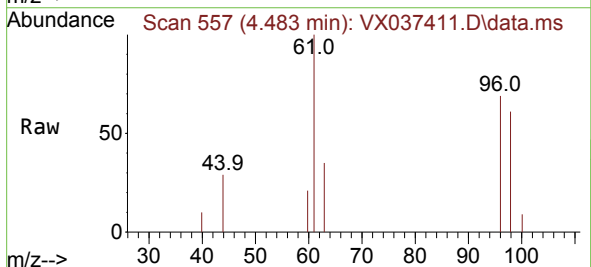
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RE132D1-20230821

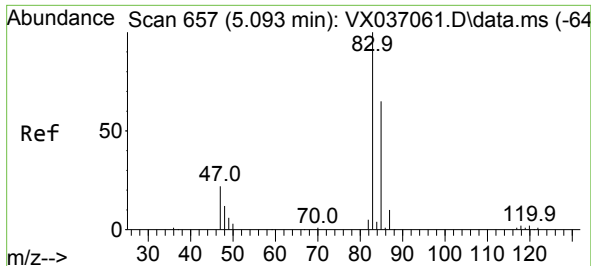
Tgt Ion: 63 Resp: 743
Ion Ratio Lower Upper
63 100
98 0.0 3.3 9.8#
100 0.0 2.1 6.5#



#27
cis-1,2-Dichloroethene
Concen: 0.724 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.006 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

Tgt Ion: 96 Resp: 1551
Ion Ratio Lower Upper
96 100
61 125.5 0.0 312.2
98 67.1 0.0 129.0





#30

Chloroform

Concen: 0.899 ug/l

RT: 5.092 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX037411.D

Acq: 31 Aug 2023 07:03

Instrument :

MSVOA_X

ClientSampleId :

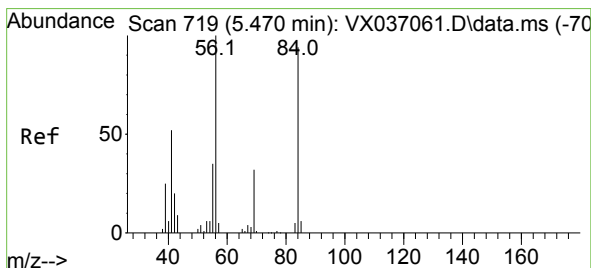
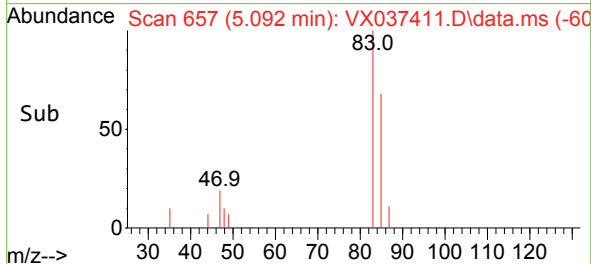
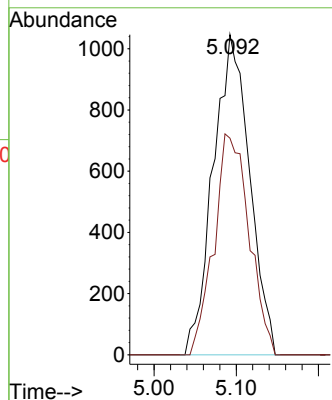
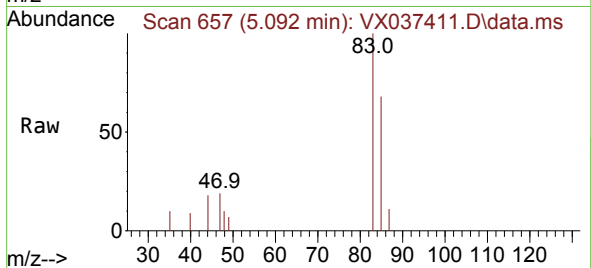
RE132D1-20230821

Tgt Ion: 83 Resp: 3215

Ion Ratio Lower Upper

83 100

85 67.7 50.3 75.5



#31

Cyclohexane

Concen: 1.169 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.073 min

Lab File: VX037411.D

Acq: 31 Aug 2023 07:03

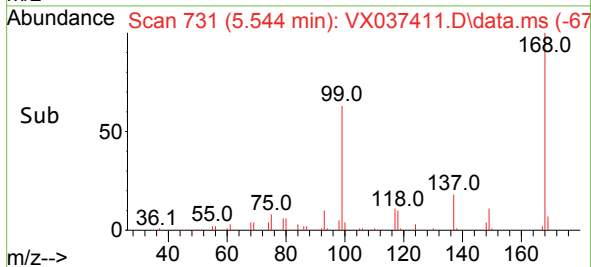
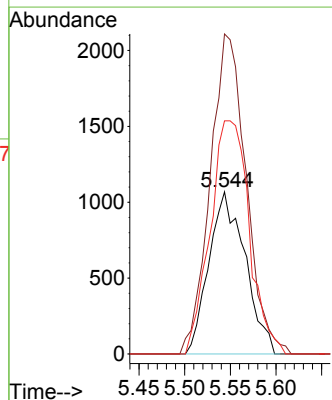
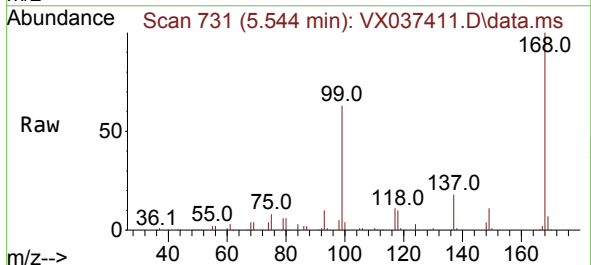
Tgt Ion: 56 Resp: 2943

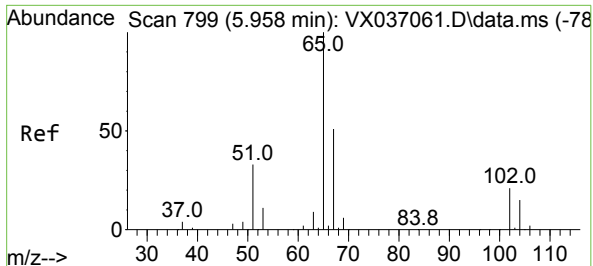
Ion Ratio Lower Upper

56 100

69 197.5 23.4 35.2#

84 143.8 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 41.948 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX037411.D

Acq: 31 Aug 2023 07:03

Instrument :

MSVOA_X

ClientSampleId :

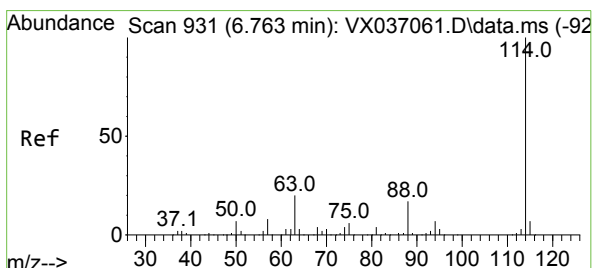
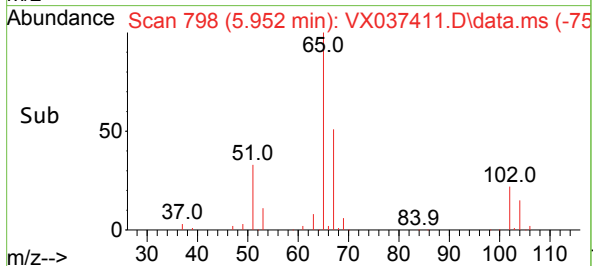
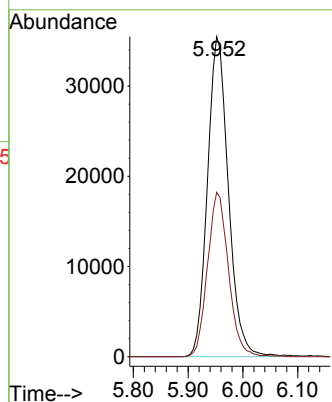
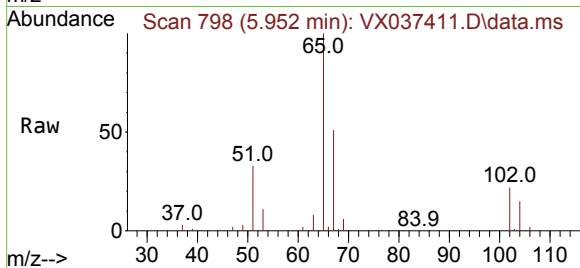
RE132D1-20230821

Tgt Ion: 65 Resp: 93946

Ion Ratio Lower Upper

65 100

67 51.4 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.006 min

Lab File: VX037411.D

Acq: 31 Aug 2023 07:03

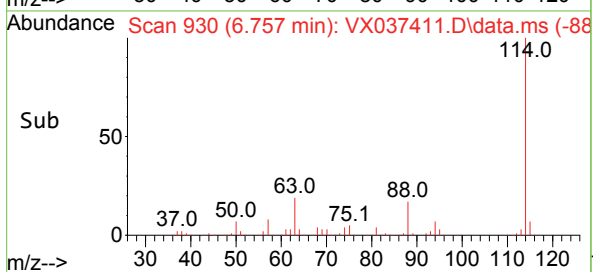
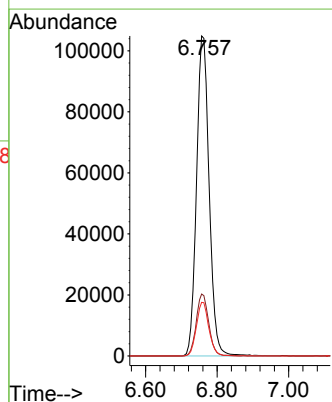
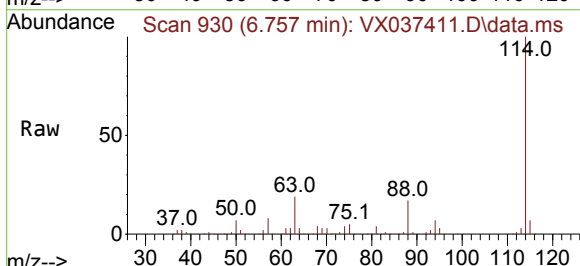
Tgt Ion: 114 Resp: 257157

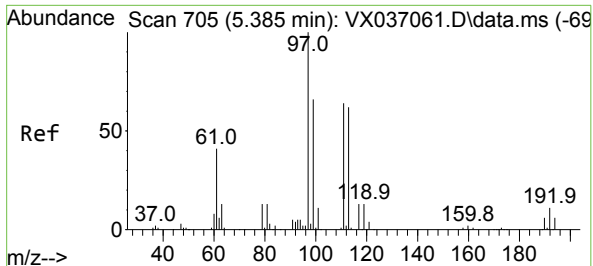
Ion Ratio Lower Upper

114 100

63 19.4 0.0 45.0

88 16.7 0.0 36.6

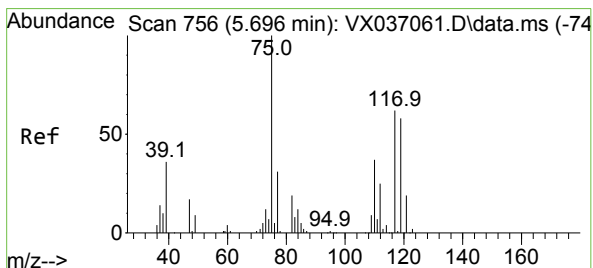
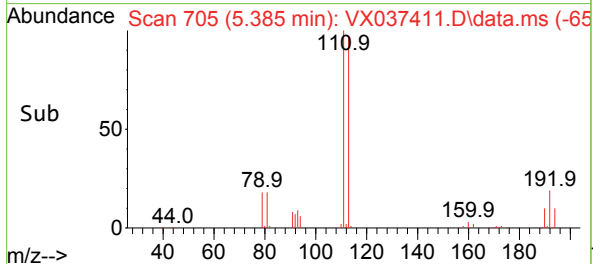
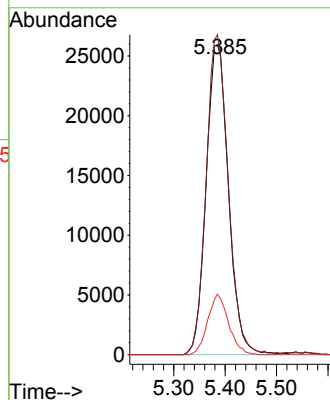
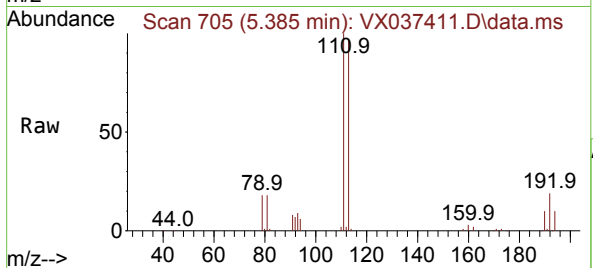




#35
Dibromofluoromethane
Concen: 45.921 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

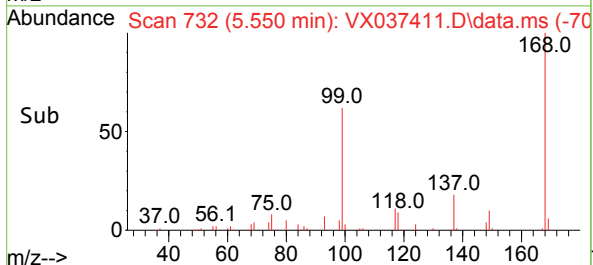
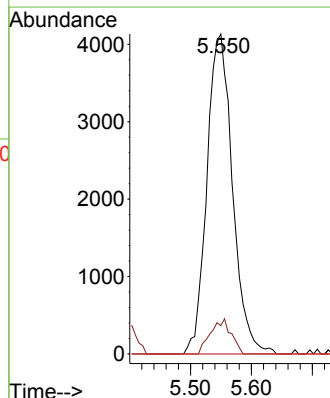
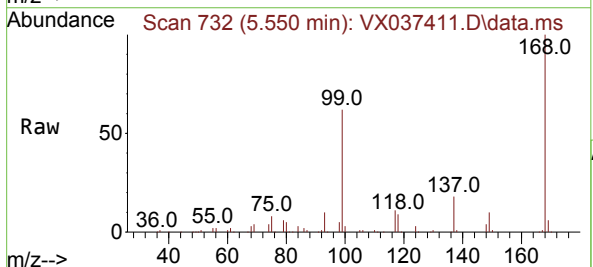
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20230821

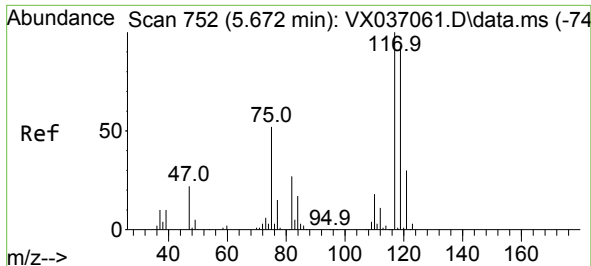
Tgt Ion:113 Resp: 78207
Ion Ratio Lower Upper
113 100
111 102.2 82.9 124.3
192 18.2 13.3 19.9



#36
1,1-Dichloropropene
Concen: 4.995 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.146 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

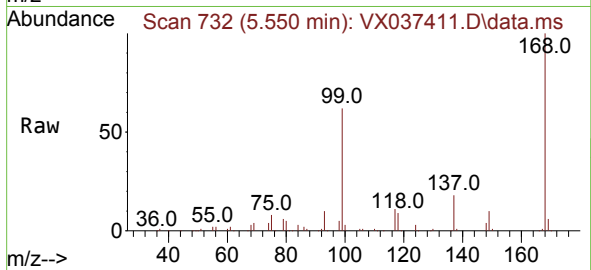
Tgt Ion: 75 Resp: 12085
Ion Ratio Lower Upper
75 100
110 8.8 17.0 50.9#
77 0.0 24.7 37.1#



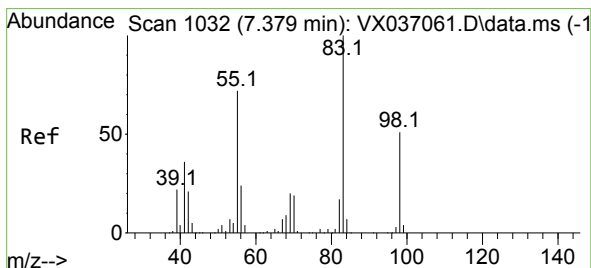
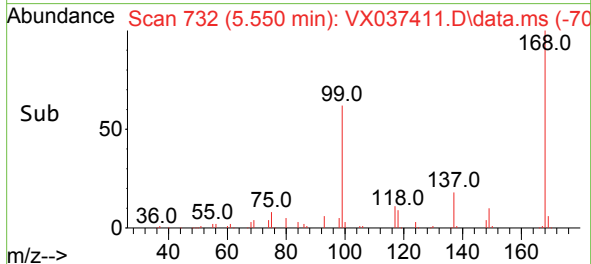
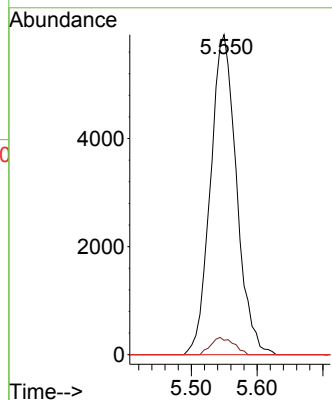


#38
Carbon Tetrachloride
Concen: 6.213 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.122 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20230821

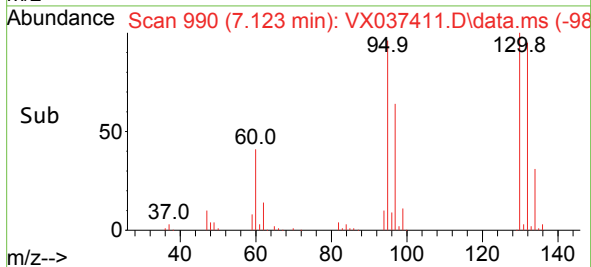
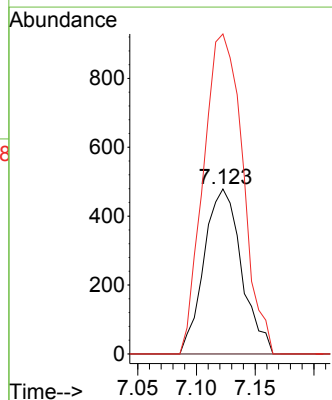
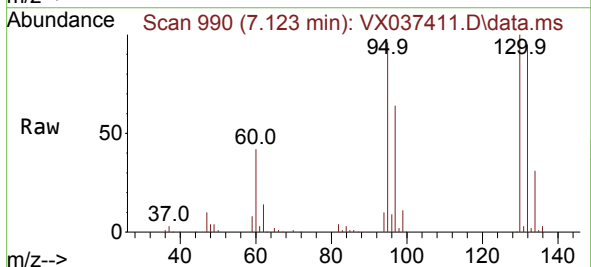


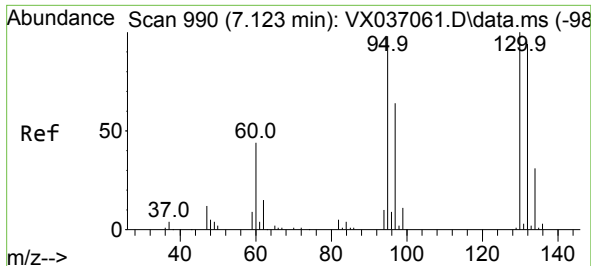
Tgt Ion:117 Resp: 16329
Ion Ratio Lower Upper
117 100
119 4.5 78.2 117.2#
121 0.0 24.4 36.6#



#39
Methylcyclohexane
Concen: 0.418 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.256 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

Tgt Ion: 83 Resp: 1063
Ion Ratio Lower Upper
83 100
55 0.0 64.6 97.0#
98 193.9 36.7 55.1#

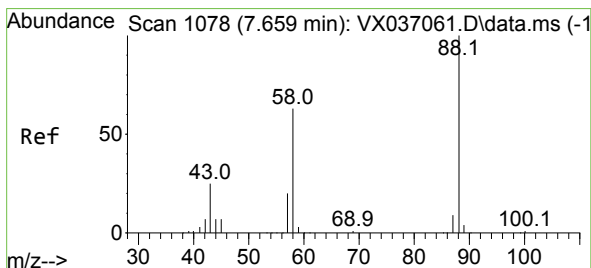
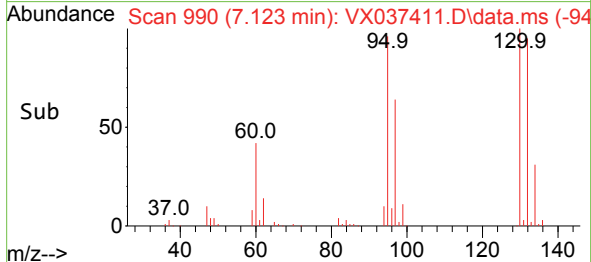
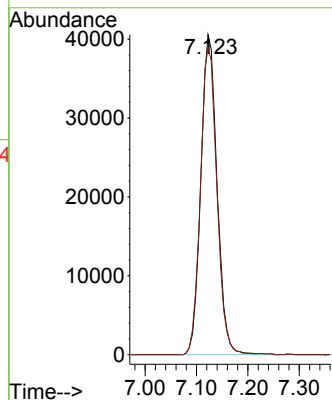
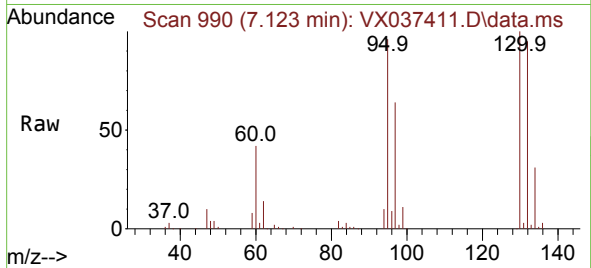




#44
Trichloroethene
Concen: 45.223 ug/l
RT: 7.123 min Scan# 990
Delta R.T. -0.000 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

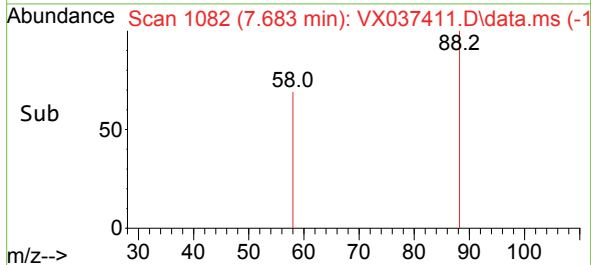
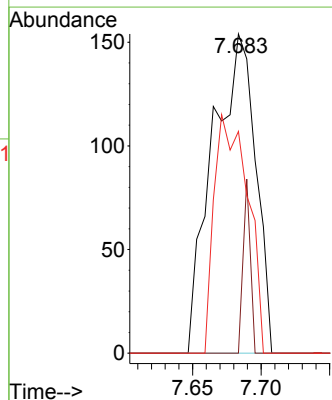
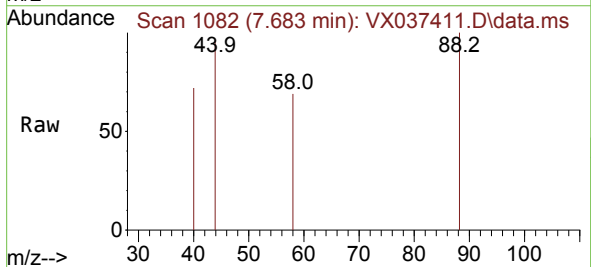
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20230821

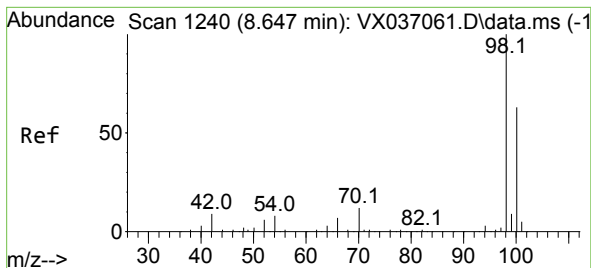
Tgt Ion:130 Resp: 88986
Ion Ratio Lower Upper
130 100
95 95.9 0.0 204.4



#49
1,4-Dioxane
Concen: 6.500 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. 0.024 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

Tgt Ion: 88 Resp: 335
Ion Ratio Lower Upper
88 100
43 9.3 0.0 0.0#
58 58.2 60.1 90.1#





#50

Toluene-d8

Concen: 48.262 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX037411.D

Acq: 31 Aug 2023 07:03

Instrument :

MSVOA_X

ClientSampleId :

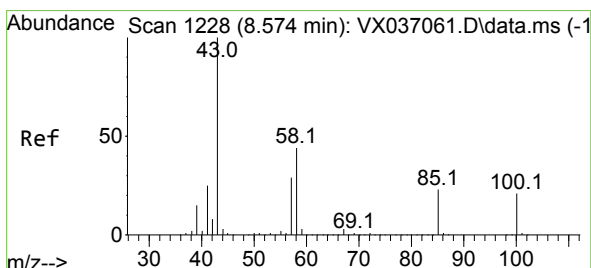
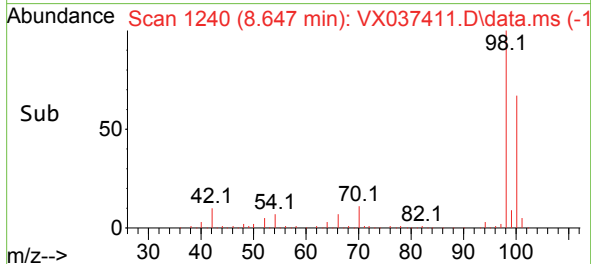
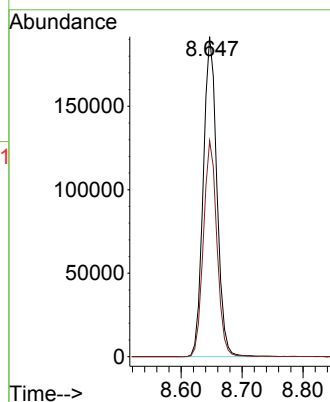
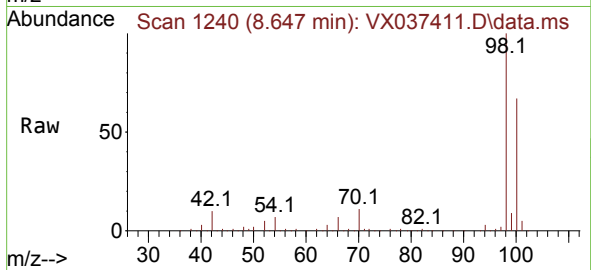
RE132D1-20230821

Tgt Ion: 98 Resp: 298149

Ion Ratio Lower Upper

98 100

100 66.7 53.1 79.7



#51

4-Methyl-2-Pentanone

Concen: 0.446 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX037411.D

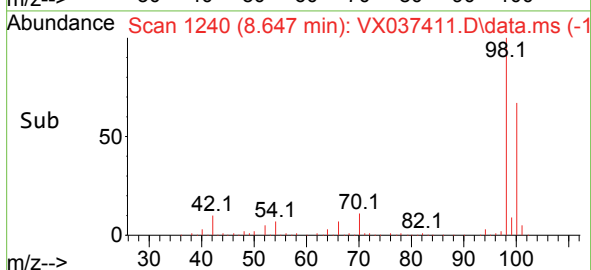
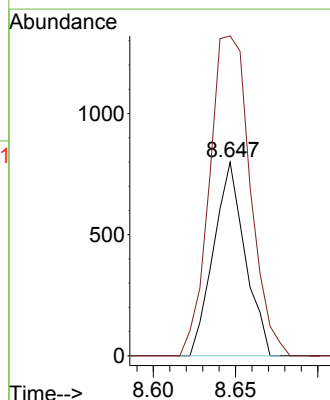
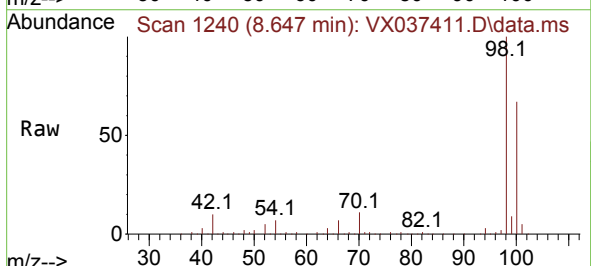
Acq: 31 Aug 2023 07:03

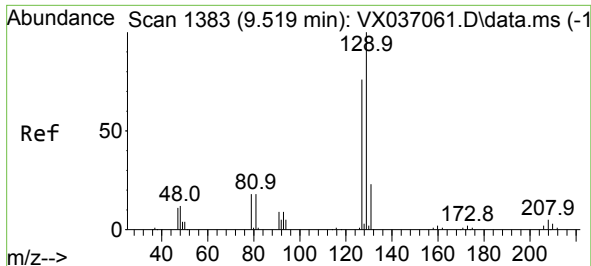
Tgt Ion: 43 Resp: 1063

Ion Ratio Lower Upper

43 100

58 214.2 30.4 45.6#

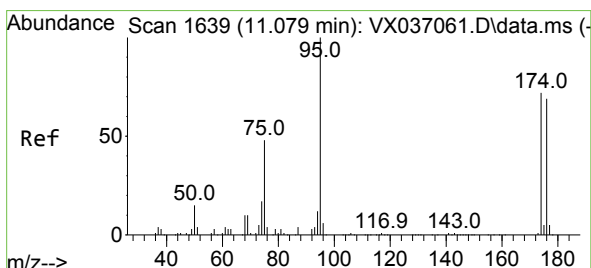
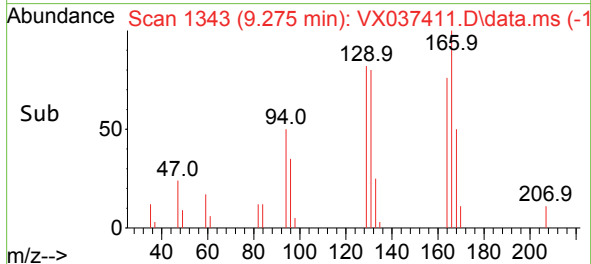
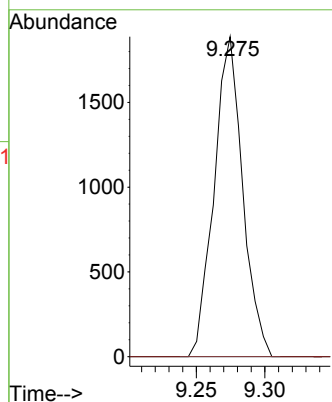
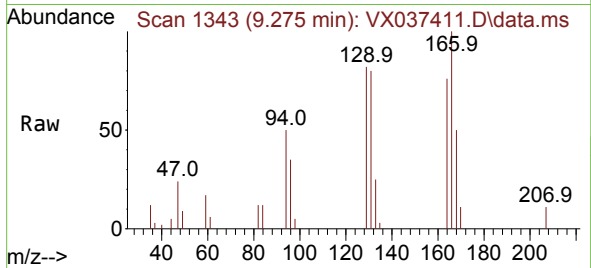




#60
Dibromochloromethane
Concen: 1.376 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.244 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

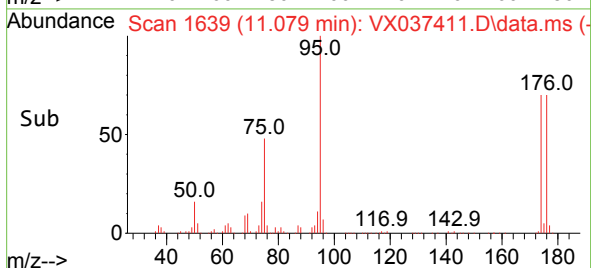
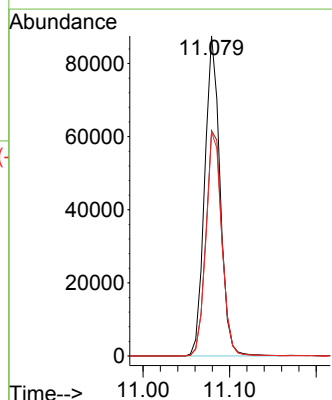
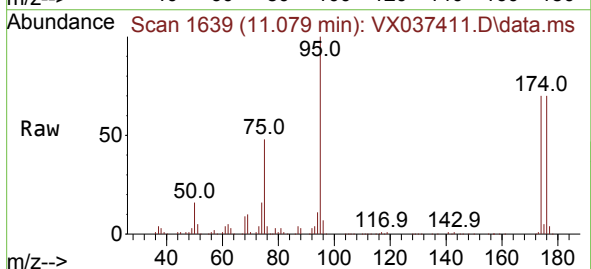
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20230821

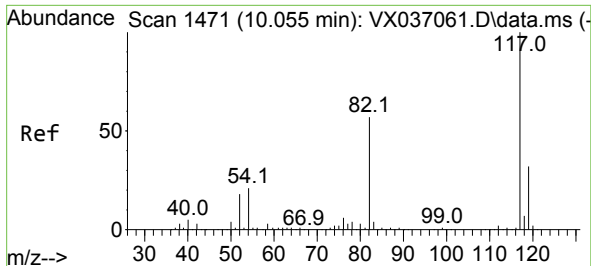
Tgt Ion:129 Resp: 2736
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.4#



#62
4-Bromofluorobenzene
Concen: 44.313 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

Tgt Ion: 95 Resp: 107581
Ion Ratio Lower Upper
95 100
174 73.7 0.0 135.6
176 72.1 0.0 131.0

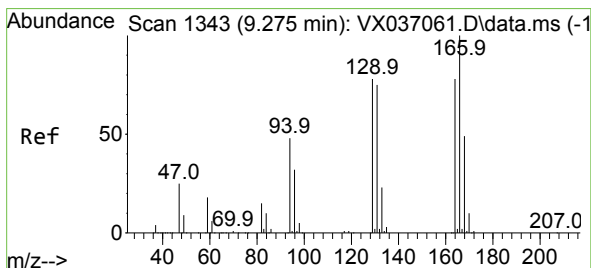
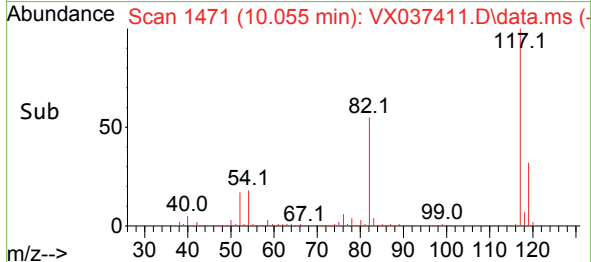
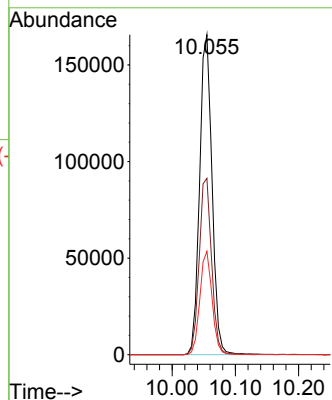
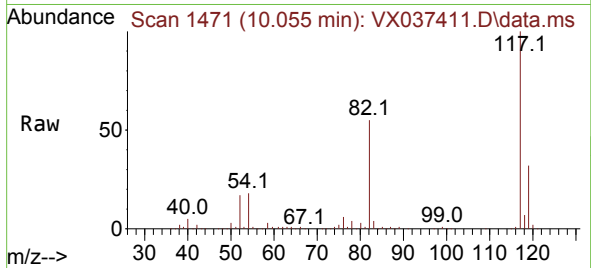




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

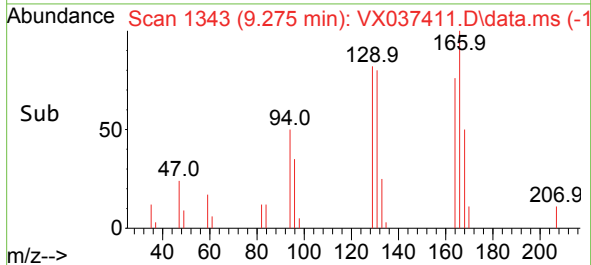
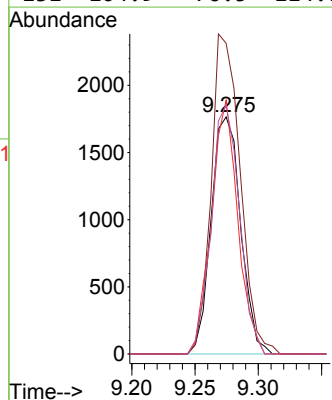
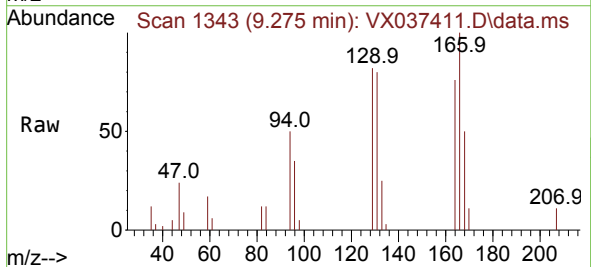
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20230821

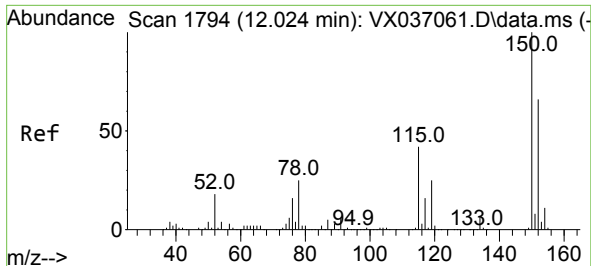
Tgt Ion:117 Resp: 226806
Ion Ratio Lower Upper
117 100
82 55.1 46.2 69.4
119 32.3 25.5 38.3



#64
Tetrachloroethene
Concen: 1.729 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

Tgt Ion:164 Resp: 2861
Ion Ratio Lower Upper
164 100
166 131.1 102.7 154.1
129 107.0 80.4 120.6
131 104.9 76.5 114.7

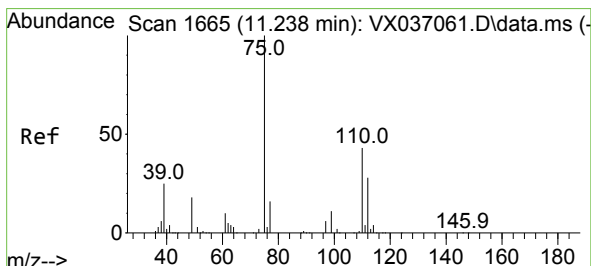
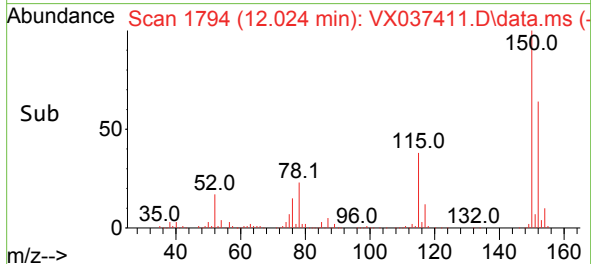
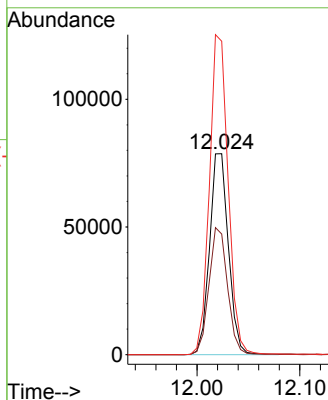
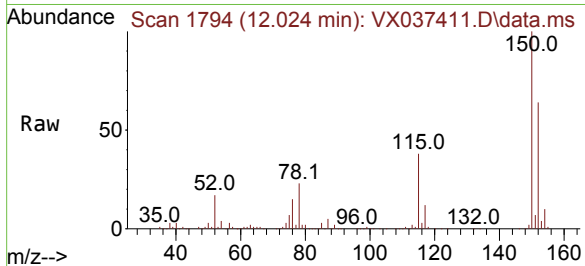




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

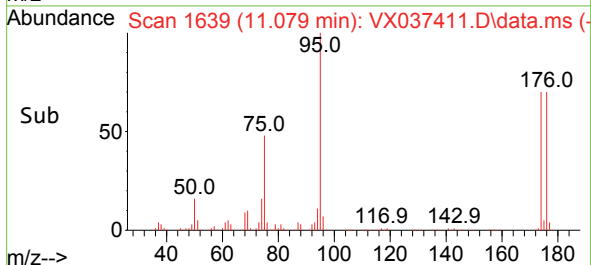
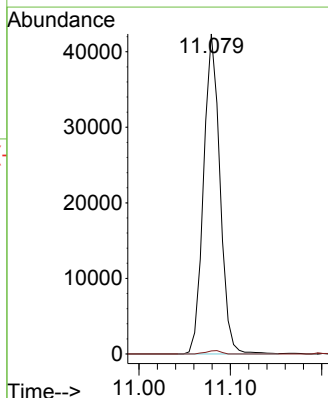
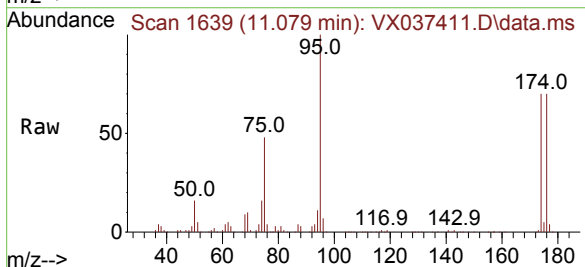
Instrument :
MSVOA_X
ClientSampleId :
RE132D1-20230821

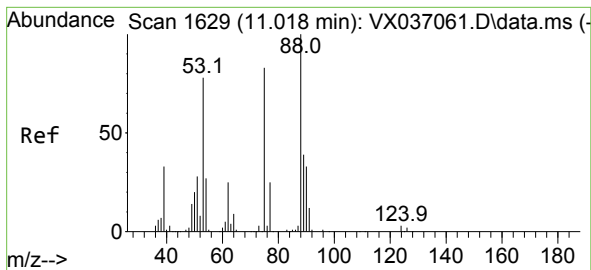
Tgt Ion:152 Resp: 100131
Ion Ratio Lower Upper
152 100
115 62.5 43.3 129.9
150 158.3 0.0 345.0



#76
1,2,3-Trichloropropane
Concen: 24.732 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX037411.D
Acq: 31 Aug 2023 07:03

Tgt Ion: 75 Resp: 52741
Ion Ratio Lower Upper
75 100
77 1.0 19.1 57.5#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.079 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX037411.D
 Acq: 31 Aug 2023 07:03

Instrument :
 MSVOA_X
 ClientSampleId :
 RE132D1-20230821

Tgt Ion: 75 Resp: 52741
 Ion Ratio Lower Upper
 75 100
 53 0.0 90.5 135.7#
 89 0.0 36.9 55.3#

