

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX111023\
 Data File : VX038736.D
 Acq On : 10 Nov 2023 18:06
 Operator : JC/MD
 Sample : 05358-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Nov 11 01:57:51 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110723W.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 08 03:19:07 2023
 Response via : Initial Calibration

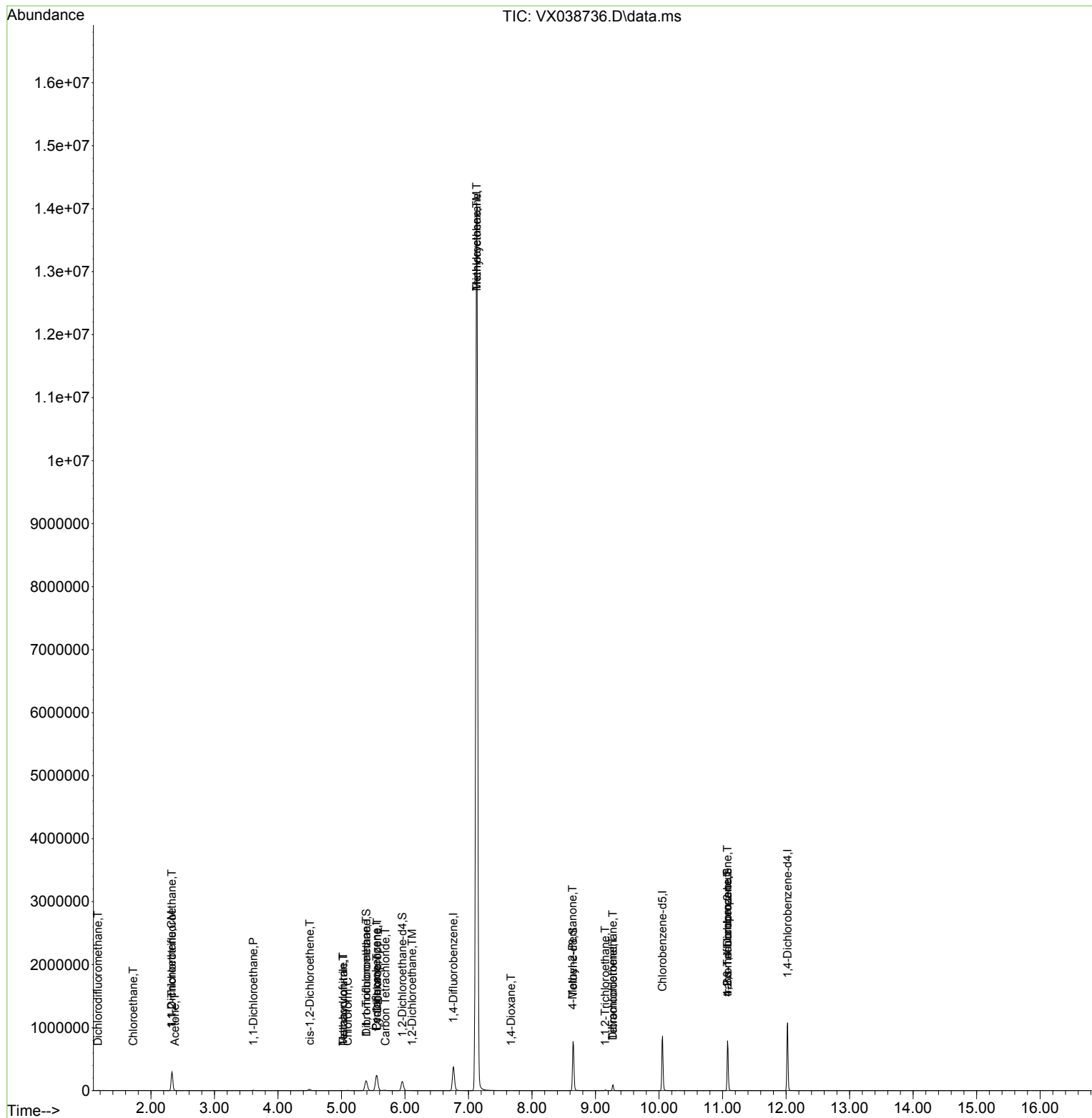
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.550	168	253451	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	6.763	114	422219	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	433442	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	248758	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	147888	46.869	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	93.740%
35) Dibromofluoromethane	5.391	113	139903	46.006	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	92.020%
50) Toluene-d8	8.647	98	496864	45.660	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	91.320%#
62) 4-Bromofluorobenzene	11.079	95	212271	50.313	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	100.620%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	1582	0.601	ug/l	91
6) Chloroethane	1.721	64	1183	0.771	ug/l	# 43
9) 1,1,2-Trichlorotrifluo...	2.331	101	94190	38.152	ug/l	89
12) 1,1-Dichloroethene	2.325	96	27604	11.670	ug/l	# 76
16) Acetone	2.380	43	1929	1.452	ug/l	97
24) 1,1-Dichloroethane	3.611	63	7974	1.888	ug/l	# 93
27) cis-1,2-Dichloroethene	4.501	96	14694	4.941	ug/l	74
29) Tetrahydrofuran	5.025	42	1061	0.886	ug/l	93
30) Chloroform	5.099	83	6831	1.378	ug/l	86
31) Cyclohexane	5.556	56	3949	1.131	ug/l	# 1
32) 1,1,1-Trichloroethane	5.391	97	1739	0.399	ug/l	# 49
36) 1,1-Dichloropropene	5.562	75	16305	4.316	ug/l	# 51
38) Carbon Tetrachloride	5.690	117	6578	1.558	ug/l	87
39) Methylcyclohexane	7.129	83	61604	13.044	ug/l	# 1
41) Methacrylonitrile	5.025	41	707	0.360	ug/l	# 29
42) 1,2-Dichloroethane	6.111	62	1575	0.401	ug/l	# 77
44) Trichloroethene	7.129	130	5915483	1747.431	ug/l	90
49) 1,4-Dioxane	7.671	88	1355	20.830	ug/l	# 78
51) 4-Methyl-2-Pentanone	8.641	43	1667	0.432	ug/l	# 1
55) 1,1,2-Trichloroethane	9.153	97	3570	1.180	ug/l	90
60) Dibromochloromethane	9.275	129	16936	4.989	ug/l	# 11
64) Tetrachloroethene	9.275	164	18964	5.845	ug/l	95
76) 1,2,3-Trichloropropane	11.079	75	101350	20.572	ug/l	# 39
81) trans-1,4-Dichloro-2-b...	11.079	75	101350	62.677	ug/l	# 5

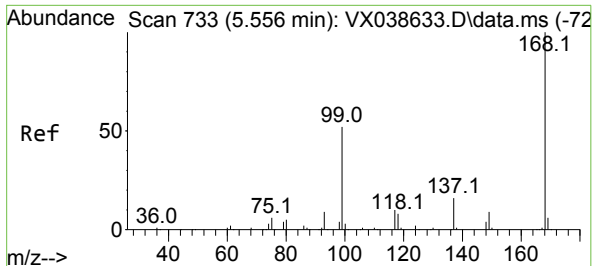
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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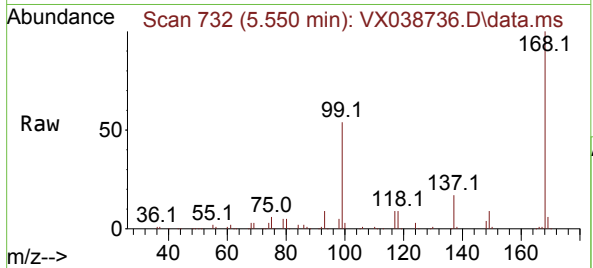


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

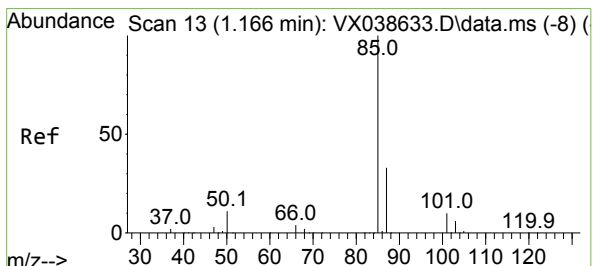
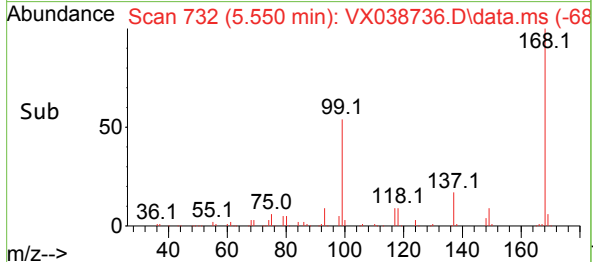
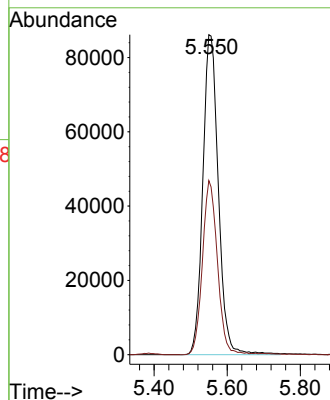
Instrument :

MSVOA_X

ClientSampleId :

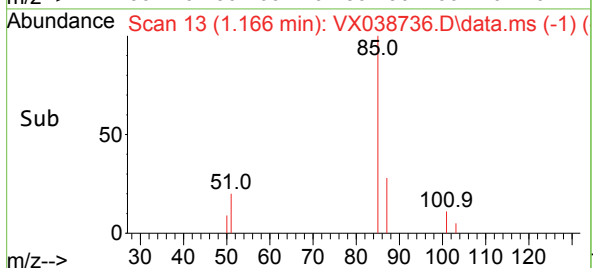
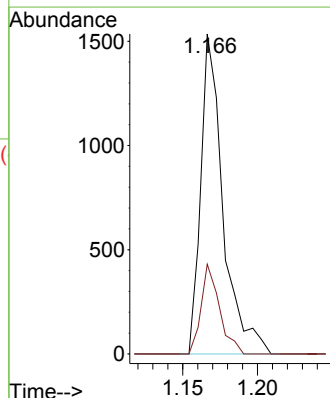
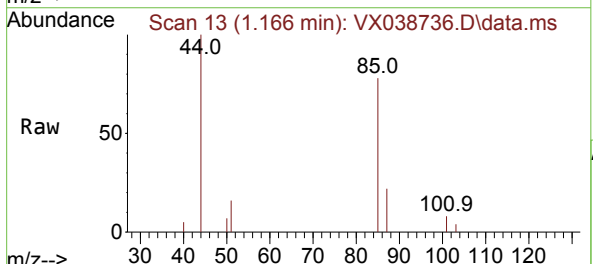


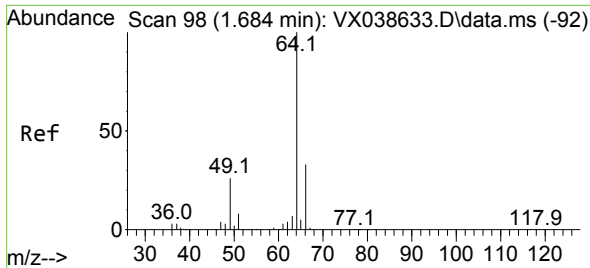
Tgt Ion:168 Resp: 253451
Ion Ratio Lower Upper
168 100
99 54.4 56.6 85.0#



#2
Dichlorodifluoromethane
Concen: 0.601 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

Tgt Ion: 85 Resp: 1582
Ion Ratio Lower Upper
85 100
87 28.1 16.7 50.1

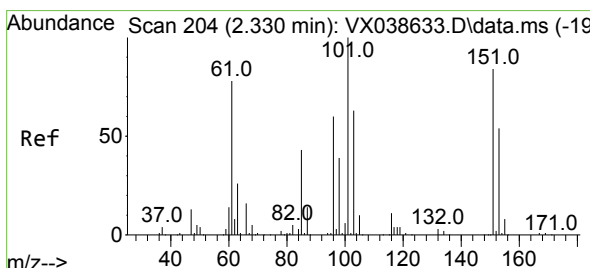
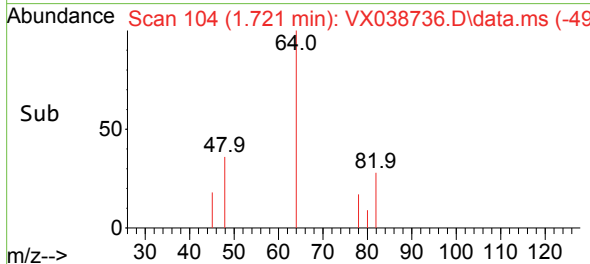
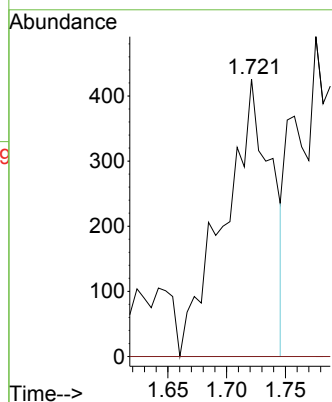
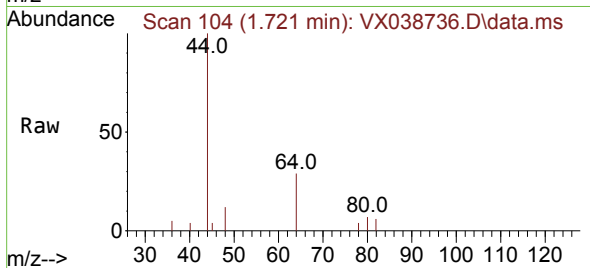




#6
Chloroethane
Concen: 0.771 ug/l
RT: 1.721 min Scan# 104
Delta R.T. 0.037 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

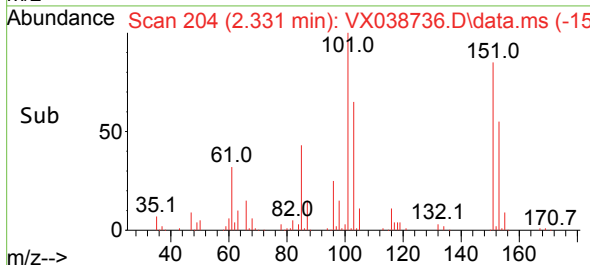
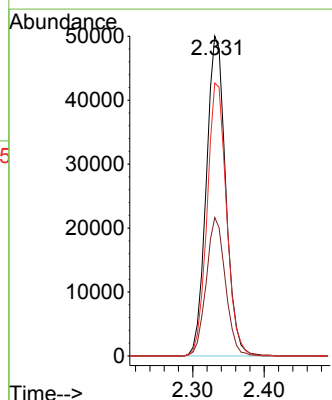
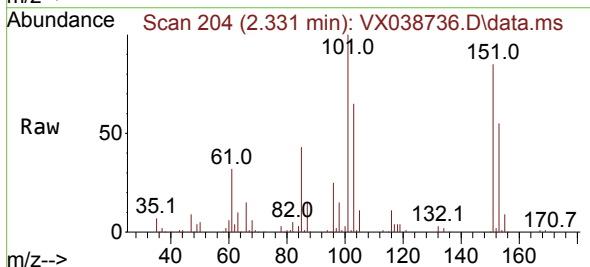
Instrument :
MSVOA_X
ClientSampleId :

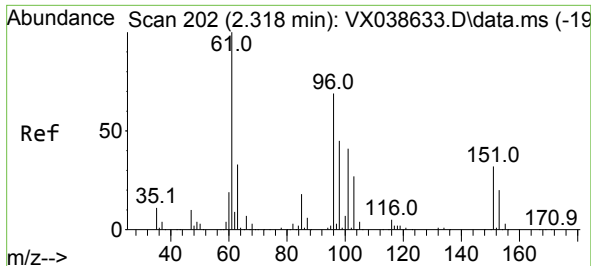
Tgt Ion: 64 Resp: 1183
Ion Ratio Lower Upper
64 100
66 0.0 25.1 37.7#



#9
1,1,2-Trichlorotrifluoroethane
Concen: 38.152 ug/l
RT: 2.331 min Scan# 204
Delta R.T. 0.000 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

Tgt Ion: 101 Resp: 94190
Ion Ratio Lower Upper
101 100
85 42.7 37.0 55.6
151 85.4 58.6 87.8





#12

1,1-Dichloroethene

Concen: 11.670 ug/l

RT: 2.325 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX038736.D

Acq: 10 Nov 2023 18:06

Instrument :

MSVOA_X

ClientSampleId :

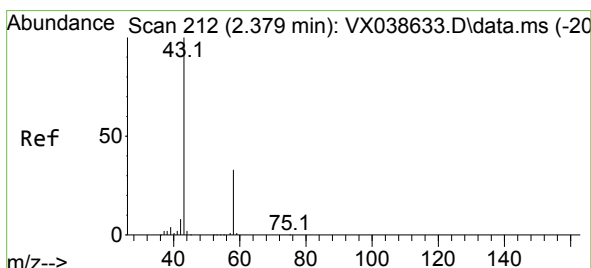
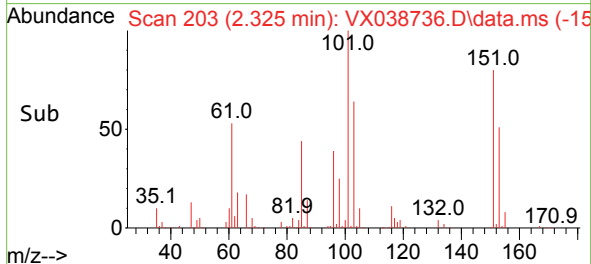
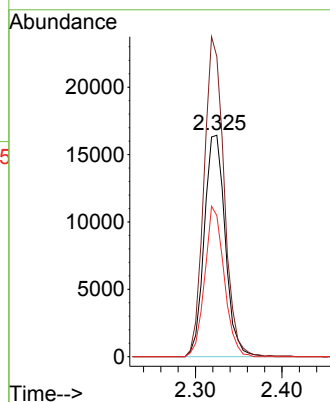
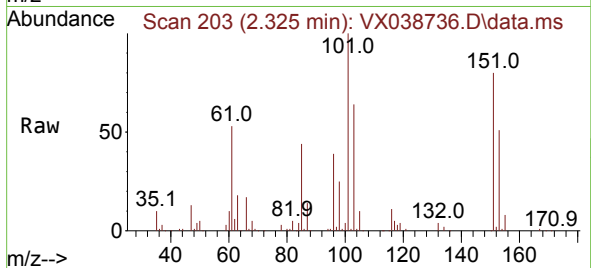
Tgt Ion: 96 Resp: 27604

Ion Ratio Lower Upper

96 100

61 135.5 144.6 216.8#

98 63.7 50.4 75.6



#16

Acetone

Concen: 1.452 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.000 min

Lab File: VX038736.D

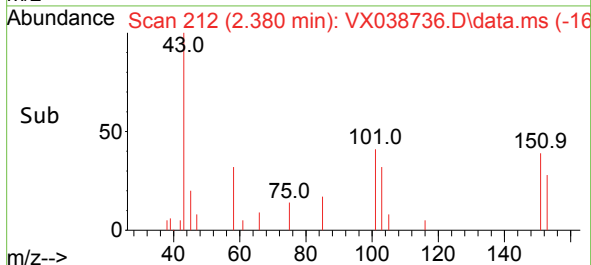
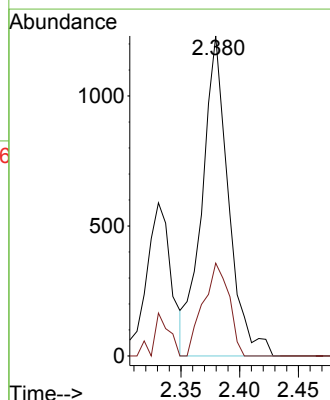
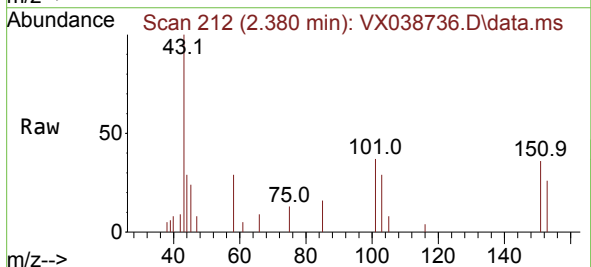
Acq: 10 Nov 2023 18:06

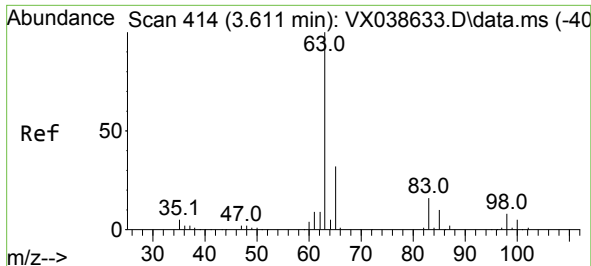
Tgt Ion: 43 Resp: 1929

Ion Ratio Lower Upper

43 100

58 29.0 21.9 32.9





#24

1,1-Dichloroethane

Concen: 1.888 ug/l

RT: 3.611 min Scan# 41

Delta R.T. 0.000 min

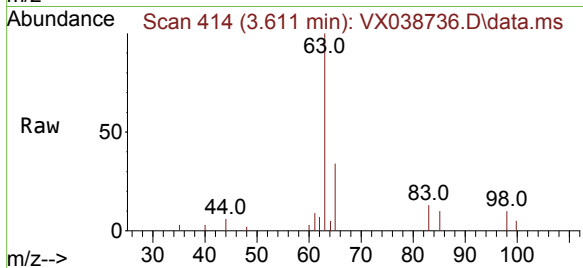
Lab File: VX038736.D

Acq: 10 Nov 2023 18:06

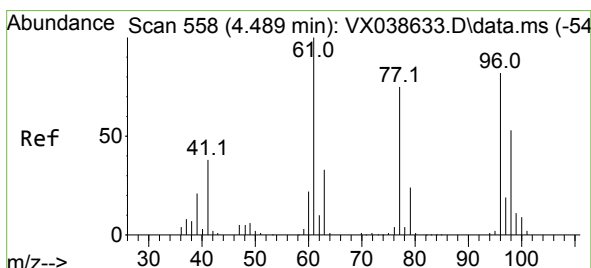
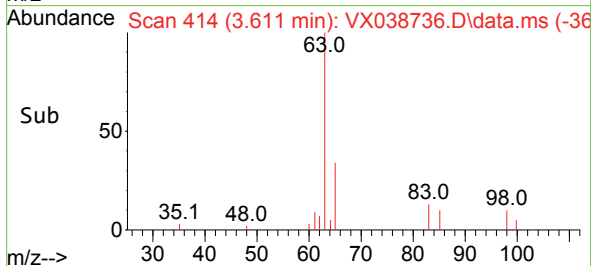
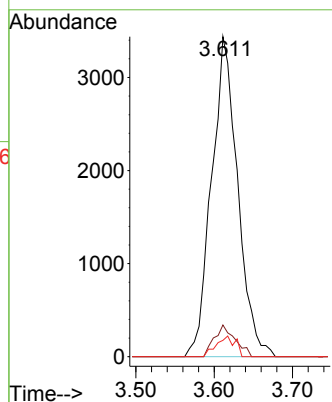
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	63	Resp:	7974
Ion	Ratio	Lower	Upper
63	100		
98	9.9	3.3	9.8#
100	5.1	2.1	6.5



#27

cis-1,2-Dichloroethene

Concen: 4.941 ug/l

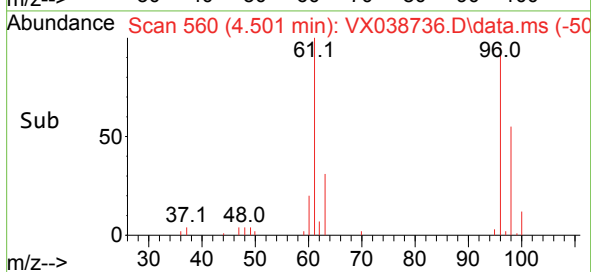
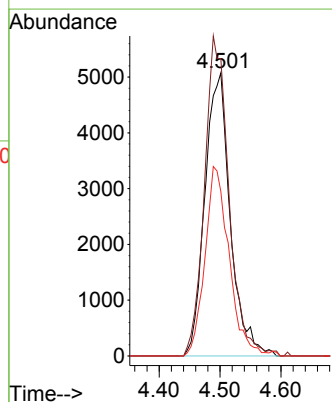
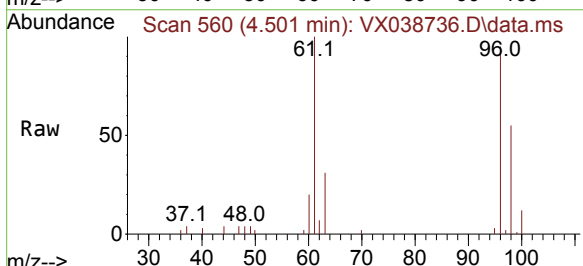
RT: 4.501 min Scan# 560

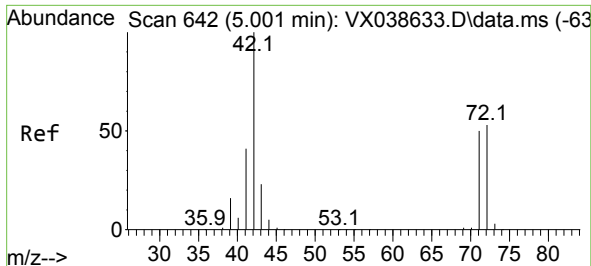
Delta R.T. 0.013 min

Lab File: VX038736.D

Acq: 10 Nov 2023 18:06

Tgt Ion:	96	Resp:	14694
Ion	Ratio	Lower	Upper
96	100		
61	108.8	0.0	312.2
98	63.6	0.0	129.0





#29

Tetrahydrofuran

Concen: 0.886 ug/l

RT: 5.025 min Scan# 64

Delta R.T. 0.025 min

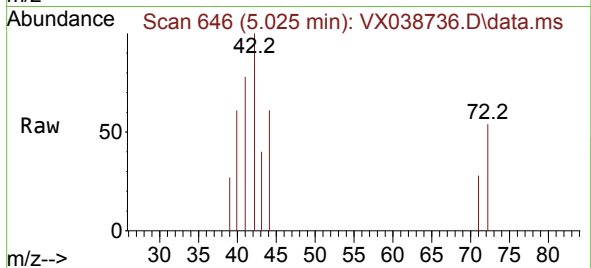
Lab File: VX038736.D

Acq: 10 Nov 2023 18:06

Instrument :

MSVOA_X

ClientSampleId :



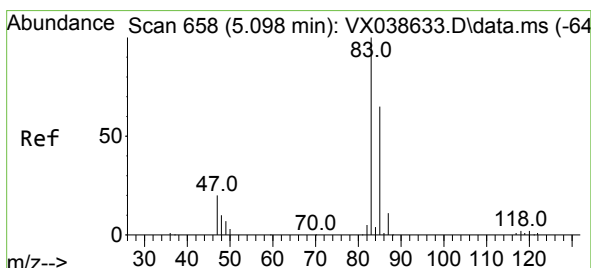
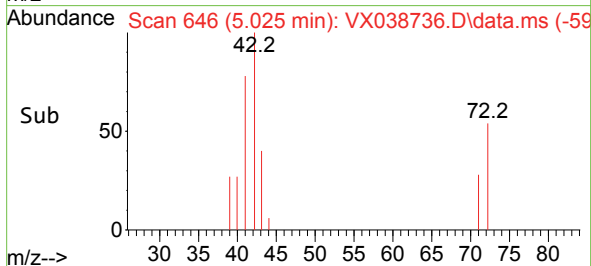
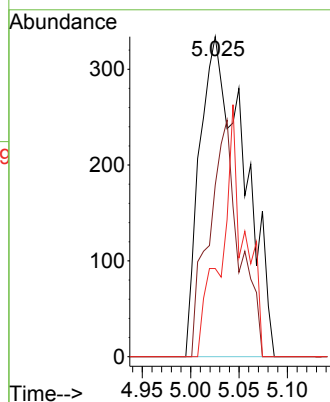
Tgt Ion: 42 Resp: 1061

Ion Ratio Lower Upper

42 100

72 50.9 34.2 51.4

71 40.8 32.2 48.2



#30

Chloroform

Concen: 1.378 ug/l

RT: 5.099 min Scan# 658

Delta R.T. 0.000 min

Lab File: VX038736.D

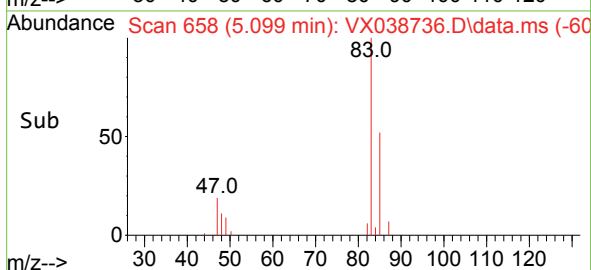
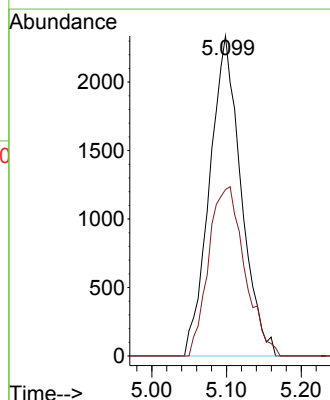
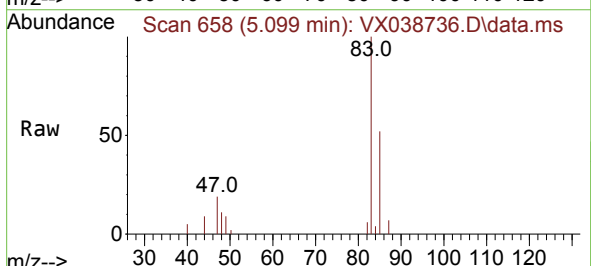
Acq: 10 Nov 2023 18:06

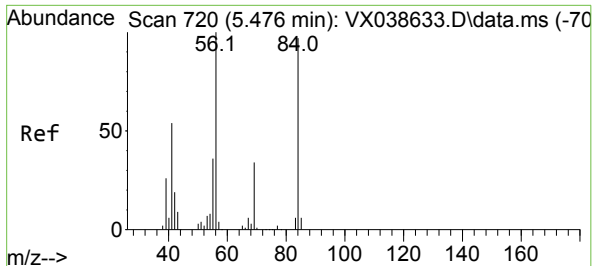
Tgt Ion: 83 Resp: 6831

Ion Ratio Lower Upper

83 100

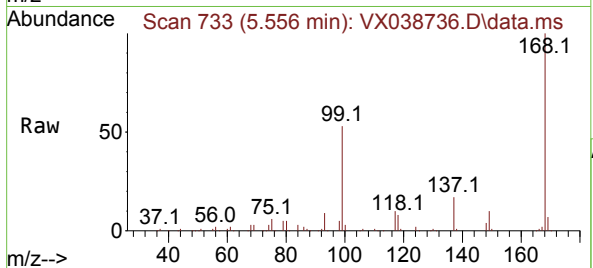
85 52.0 50.3 75.5



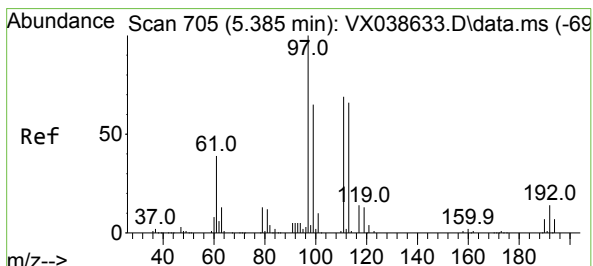
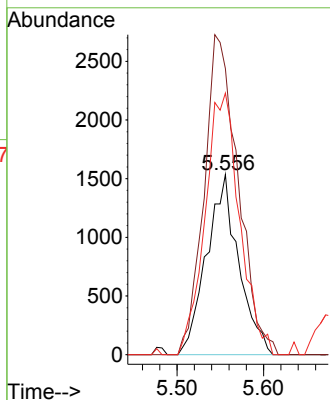
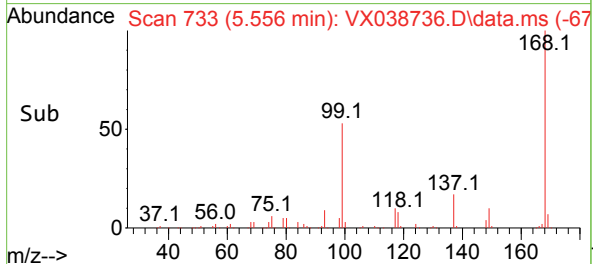


#31
Cyclohexane
Concen: 1.131 ug/l
RT: 5.556 min Scan# 713
Delta R.T. 0.080 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

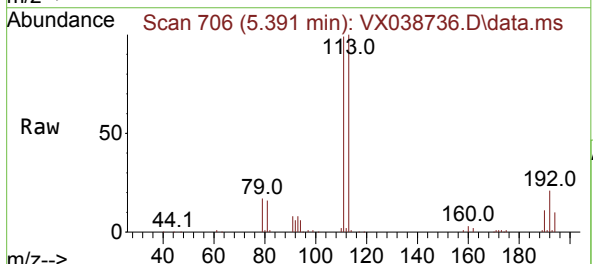
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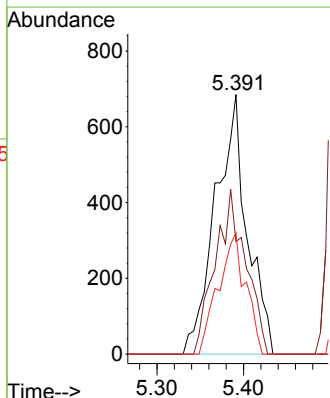
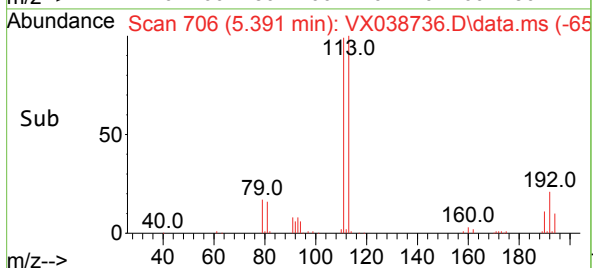
Tgt Ion: 56 Resp: 3949
Ion Ratio Lower Upper
56 100
69 158.8 23.4 35.2#
84 145.2 65.9 98.9#

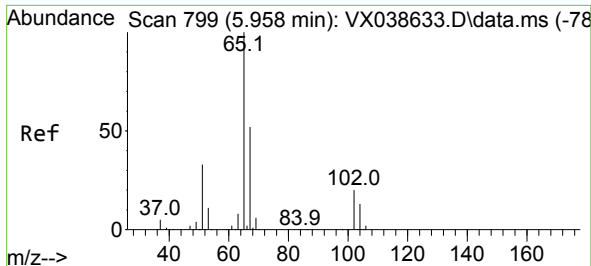


#32
1,1,1-Trichloroethane
Concen: 0.399 ug/l
RT: 5.391 min Scan# 706
Delta R.T. 0.006 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06



Tgt Ion: 97 Resp: 1739
Ion Ratio Lower Upper
97 100
99 0.0 51.1 76.7#
61 40.4 36.4 54.6





#33

1,2-Dichloroethane-d4

Concen: 46.869 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX038736.D

Acq: 10 Nov 2023 18:06

Instrument :

MSVOA_X

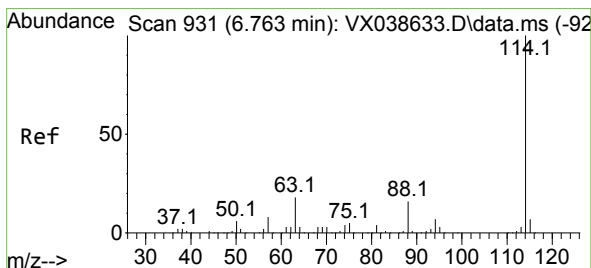
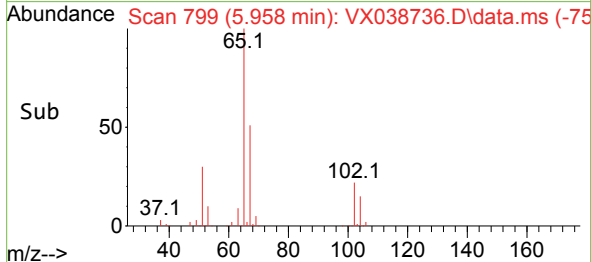
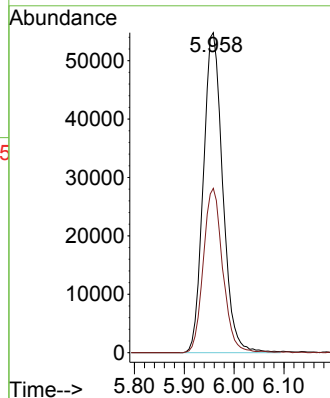
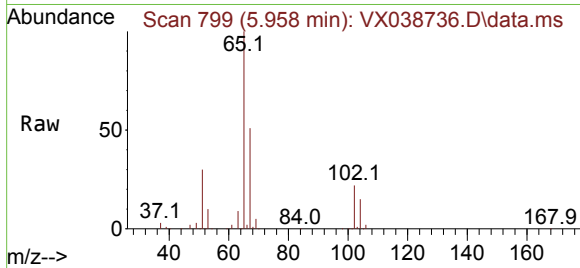
ClientSampleId :

Tgt Ion: 65 Resp: 147888

Ion Ratio Lower Upper

65 100

67 51.2 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX038736.D

Acq: 10 Nov 2023 18:06

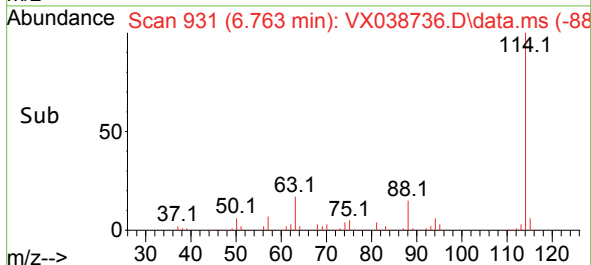
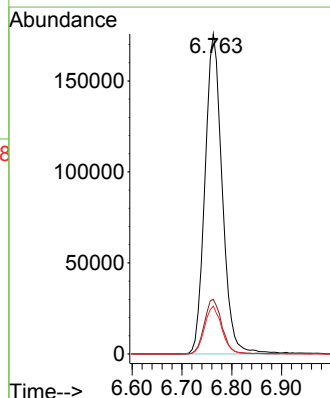
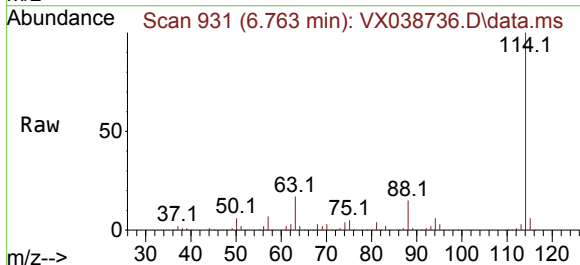
Tgt Ion: 114 Resp: 422219

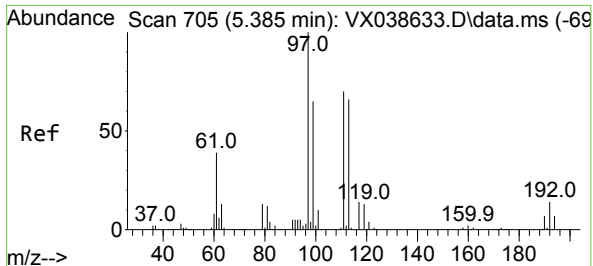
Ion Ratio Lower Upper

114 100

63 17.0 0.0 45.0

88 15.0 0.0 36.6





#35

Dibromofluoromethane

Concen: 46.006 ug/l

RT: 5.391 min Scan# 705

Delta R.T. 0.006 min

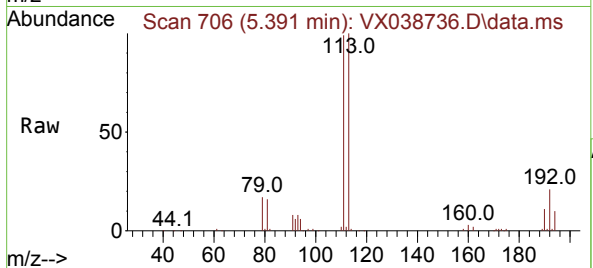
Lab File: VX038736.D

Acq: 10 Nov 2023 18:06

Instrument :

MSVOA_X

ClientSampleId :



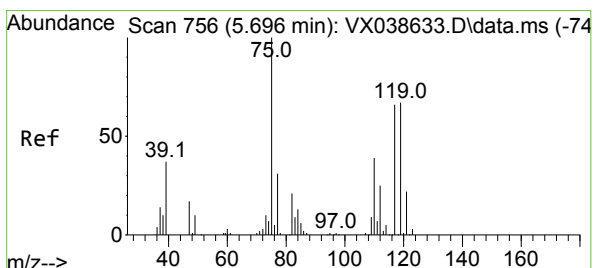
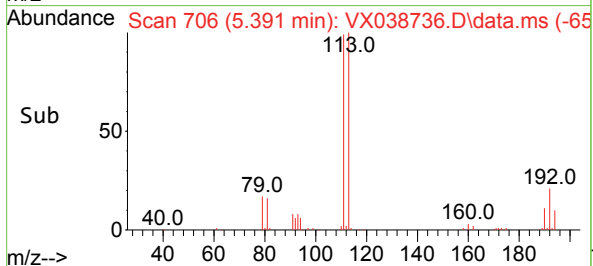
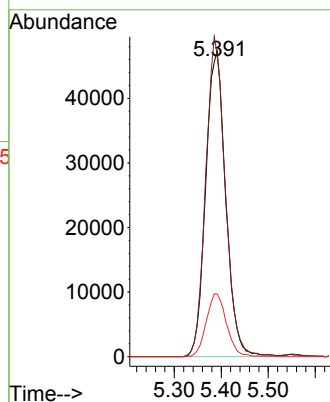
Tgt Ion:113 Resp: 139903

Ion Ratio Lower Upper

113 100

111 102.3 82.9 124.3

192 20.7 13.3 19.9#



#36

1,1-Dichloropropene

Concen: 4.316 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.134 min

Lab File: VX038736.D

Acq: 10 Nov 2023 18:06

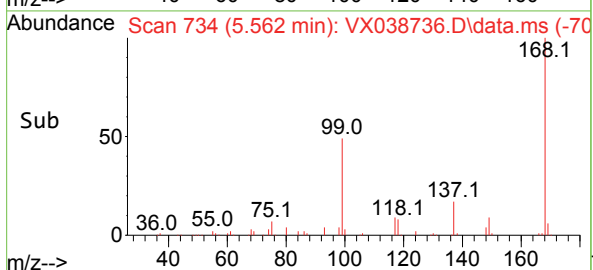
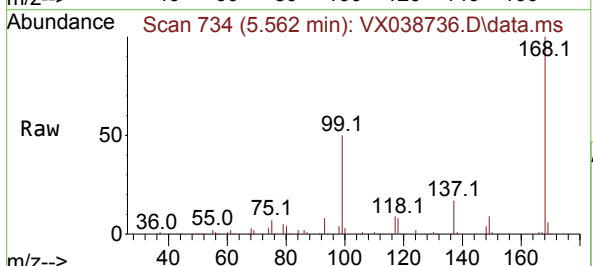
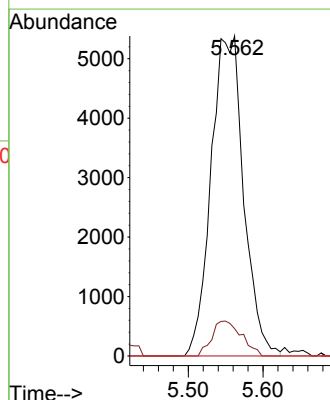
Tgt Ion: 75 Resp: 16305

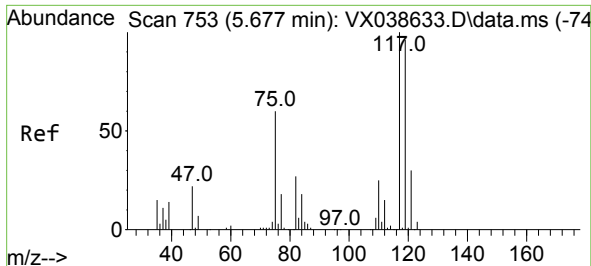
Ion Ratio Lower Upper

75 100

110 10.0 17.0 50.9#

77 0.0 24.7 37.1#

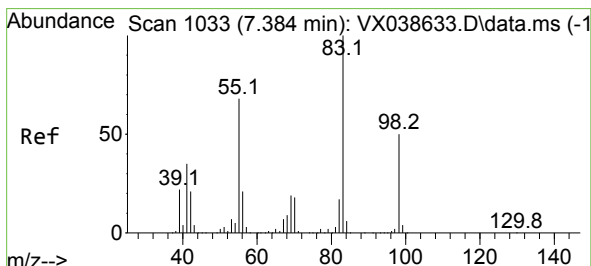
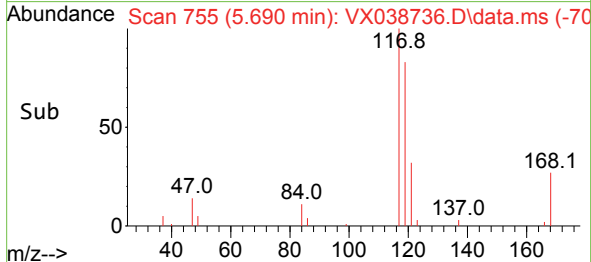
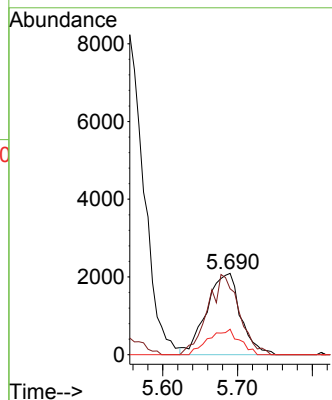
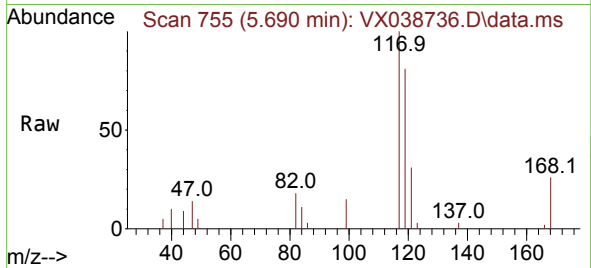




#38
Carbon Tetrachloride
Concen: 1.558 ug/l
RT: 5.690 min Scan# 71
Delta R.T. 0.013 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

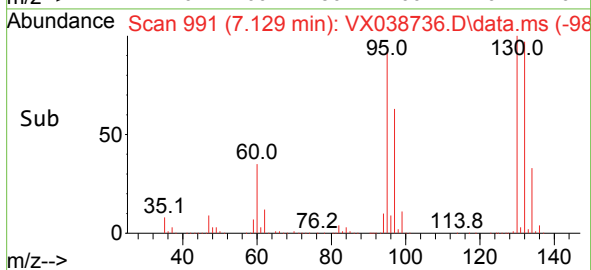
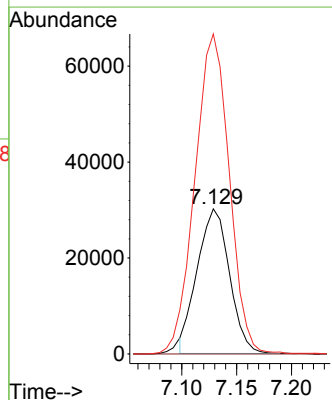
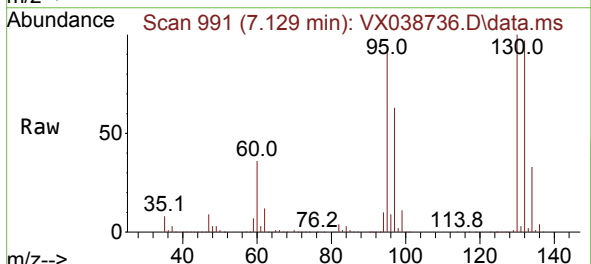
Instrument :
MSVOA_X
ClientSampleId :

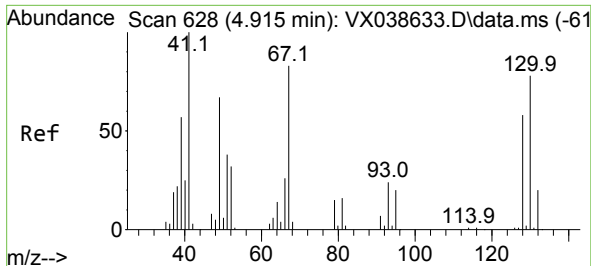
Tgt Ion:117 Resp: 6578
Ion Ratio Lower Upper
117 100
119 81.2 78.2 117.2
121 31.3 24.4 36.6



#39
Methylcyclohexane
Concen: 13.044 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.256 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

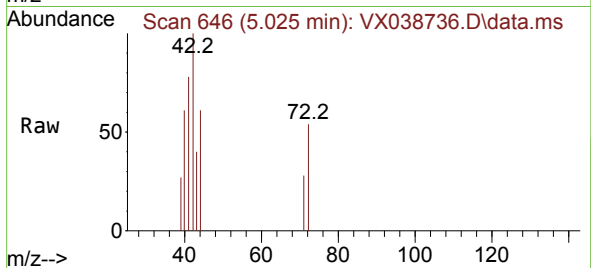
Tgt Ion: 83 Resp: 61604
Ion Ratio Lower Upper
83 100
55 0.0 64.6 97.0#
98 219.9 36.7 55.1#



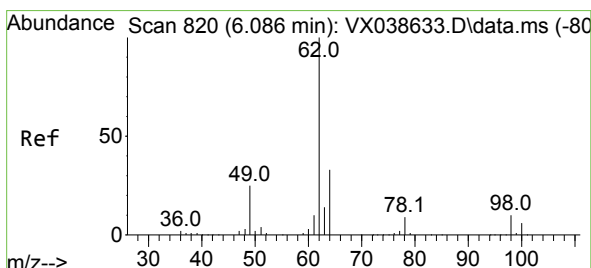
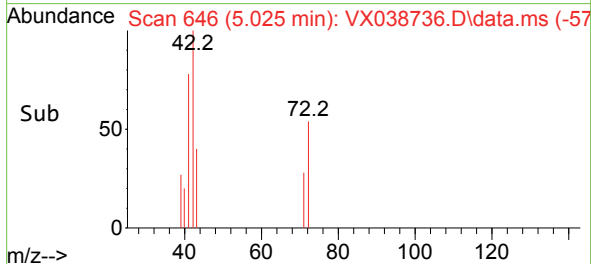
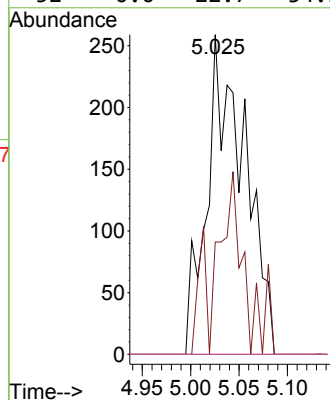


#41
Methacrylonitrile
Concen: 0.360 ug/l
RT: 5.025 min Scan# 641
Delta R.T. 0.110 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

Instrument :
MSVOA_X
ClientSampleId :

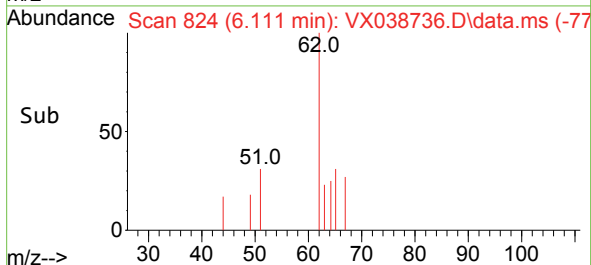
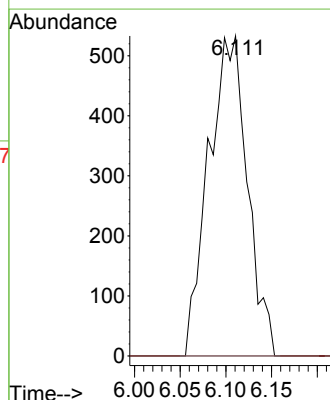
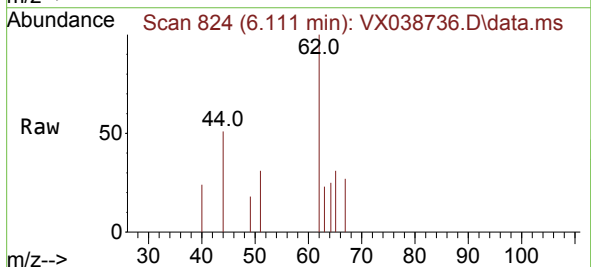


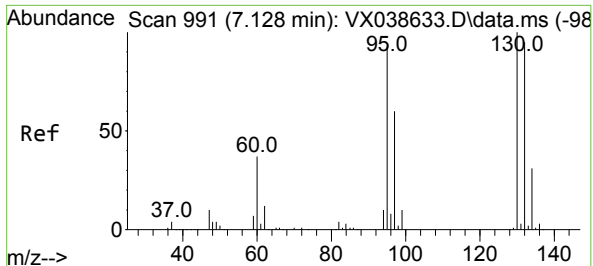
Tgt Ion: 41	Resp: 707
Ion Ratio	Lower Upper
41 100	
39 8.5	45.2 67.8#
67 0.0	52.6 78.8#
52 0.0	22.7 34.1#



#42
1,2-Dichloroethane
Concen: 0.401 ug/l
RT: 6.111 min Scan# 824
Delta R.T. 0.025 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

Tgt Ion: 62	Resp: 1575		
Ion Ratio	Lower	Upper	
62 100			
98 0.0	0.0	16.0	

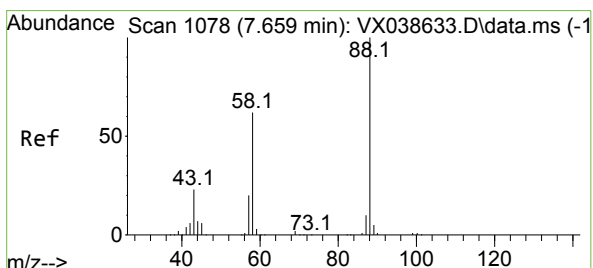
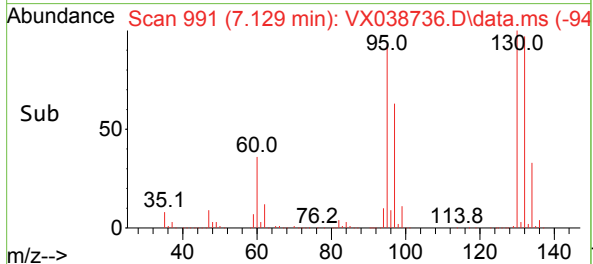
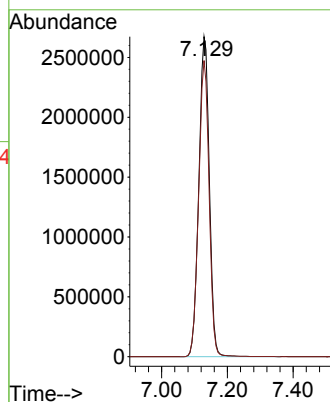
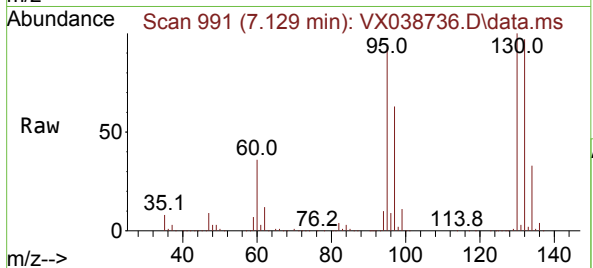




#44
 Trichloroethene
 Concen: 1747.431 ug/l
 RT: 7.129 min Scan# 991
 Delta R.T. 0.000 min
 Lab File: VX038736.D
 Acq: 10 Nov 2023 18:06

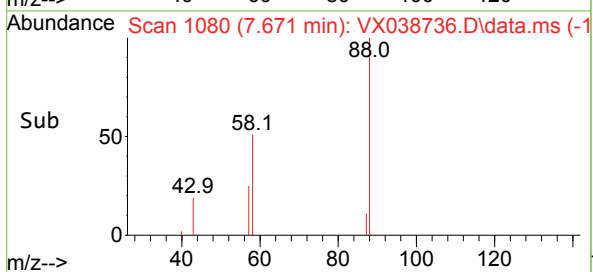
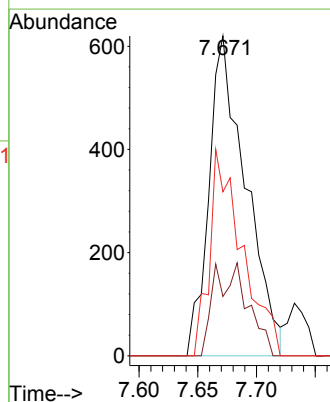
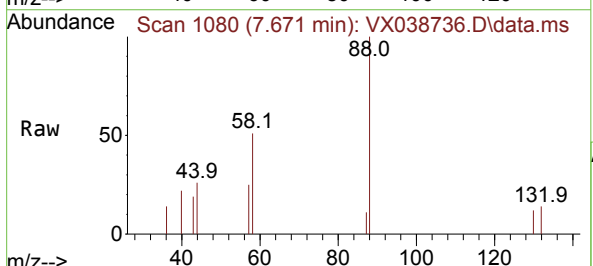
Instrument :
 MSVOA_X
 ClientSampleId :

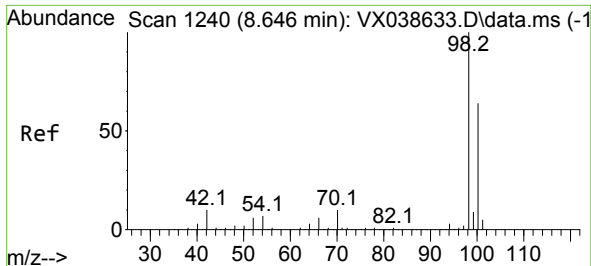
Tgt Ion:130 Resp: 5915483
 Ion Ratio Lower Upper
 130 100
 95 92.5 0.0 204.4



#49
 1,4-Dioxane
 Concen: 20.830 ug/l
 RT: 7.671 min Scan# 1080
 Delta R.T. 0.013 min
 Lab File: VX038736.D
 Acq: 10 Nov 2023 18:06

Tgt Ion: 88 Resp: 1355
 Ion Ratio Lower Upper
 88 100
 43 26.3 0.0 0.0#
 58 56.7 60.1 90.1#

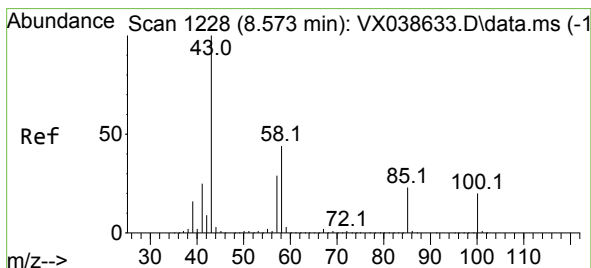
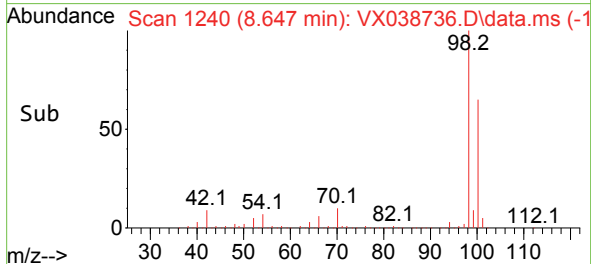
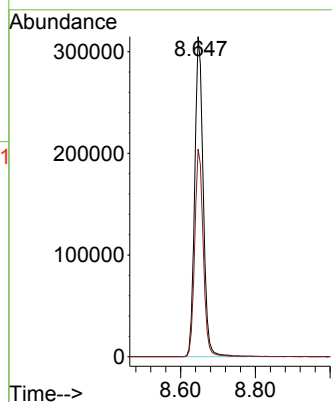
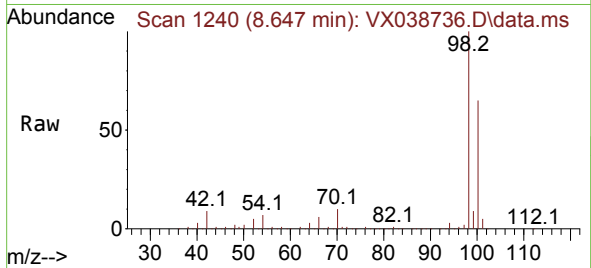




#50
Toluene-d8
Concen: 45.660 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

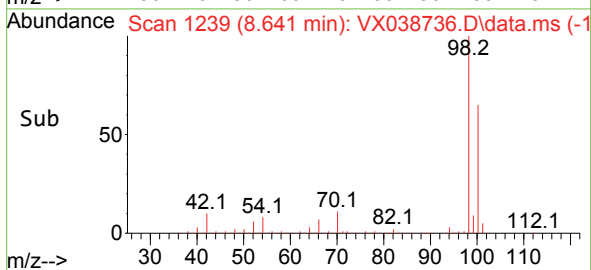
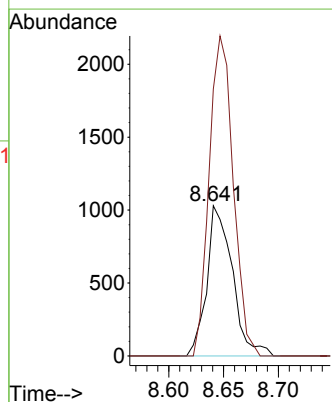
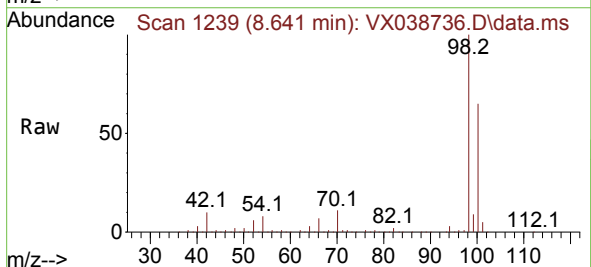
Instrument :
MSVOA_X
ClientSampleId :

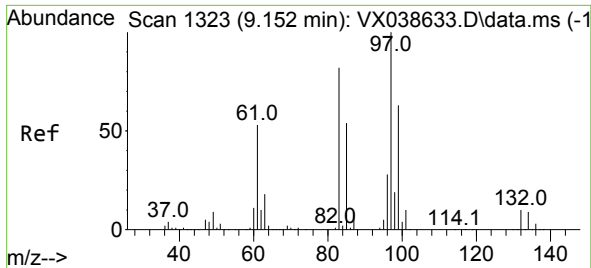
Tgt Ion: 98 Resp: 496864
Ion Ratio Lower Upper
98 100
100 64.9 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 0.432 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. 0.067 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

Tgt Ion: 43 Resp: 1667
Ion Ratio Lower Upper
43 100
58 201.5 30.4 45.6#

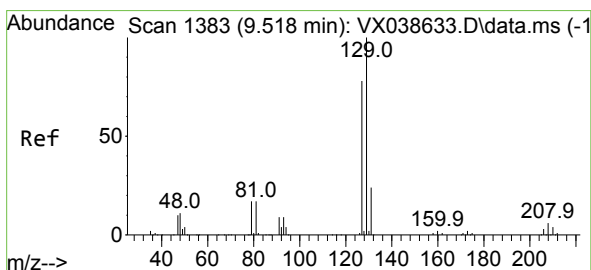
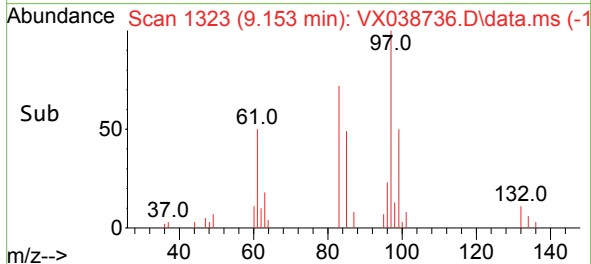
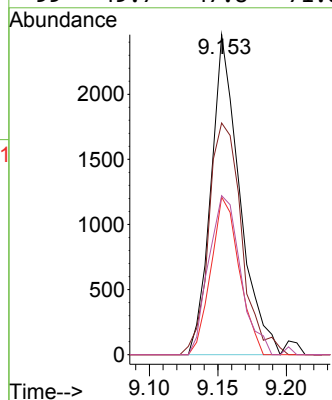
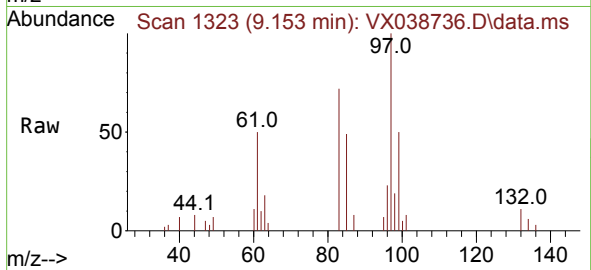




#55
 1,1,2-Trichloroethane
 Concen: 1.180 ug/l
 RT: 9.153 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX038736.D
 Acq: 10 Nov 2023 18:06

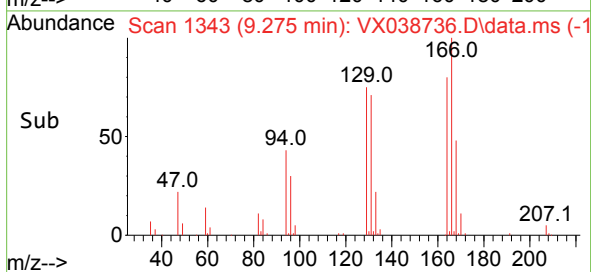
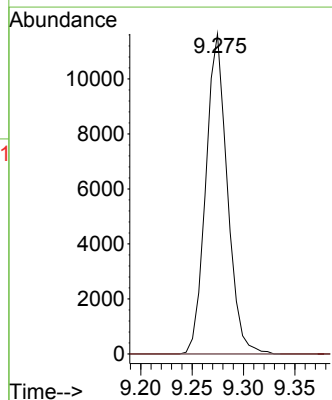
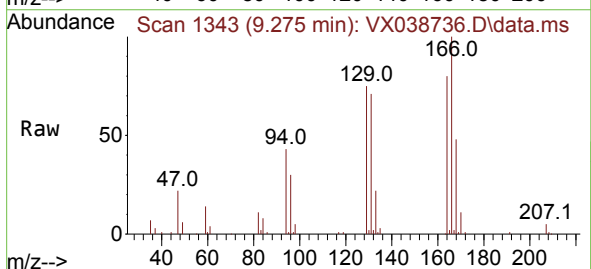
Instrument :
 MSVOA_X
 ClientSampleId :

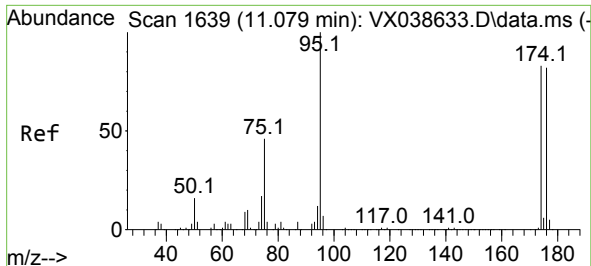
Tgt Ion: 97	Resp:	3570	
Ion	Ratio	Lower	Upper
97	100		
83	72.4	65.8	98.8
85	49.3	41.6	62.4
99	49.7	47.8	71.8



#60
 Dibromochloromethane
 Concen: 4.989 ug/l
 RT: 9.275 min Scan# 1343
 Delta R.T. -0.244 min
 Lab File: VX038736.D
 Acq: 10 Nov 2023 18:06

Tgt Ion:129	Resp:	16936	
Ion	Ratio	Lower	Upper
129	100		
127	0.0	38.8	116.4#





#62

4-Bromofluorobenzene

Concen: 50.313 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX038736.D

Acq: 10 Nov 2023 18:06

Instrument :

MSVOA_X

ClientSampleId :

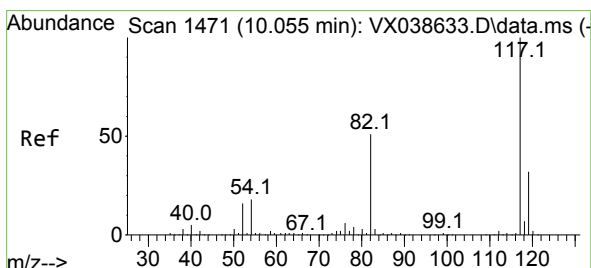
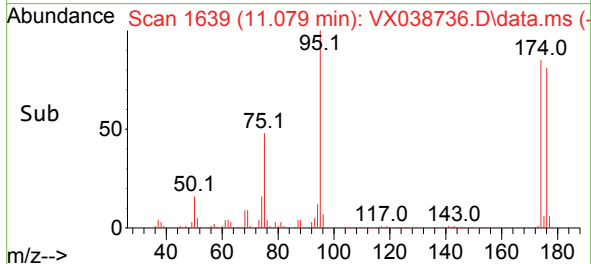
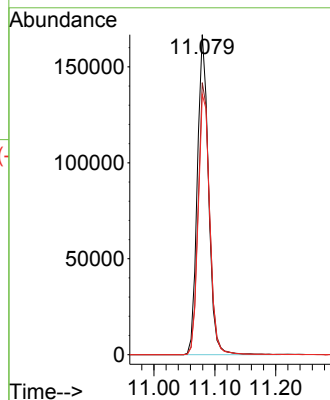
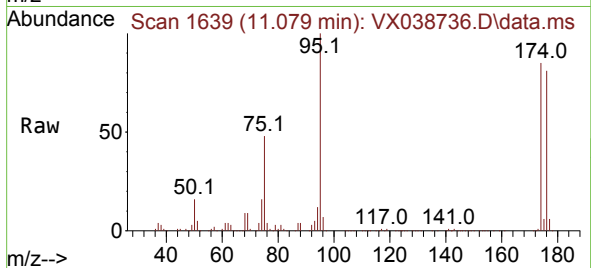
Tgt Ion: 95 Resp: 212271

Ion Ratio Lower Upper

95 100

174 87.3 0.0 135.6

176 84.2 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: VX038736.D

Acq: 10 Nov 2023 18:06

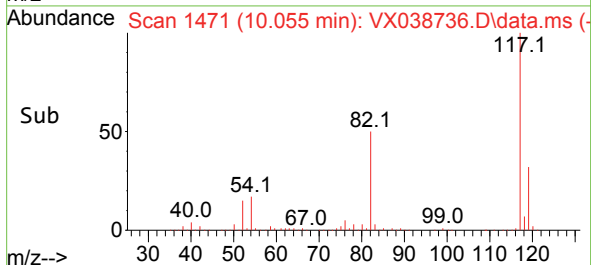
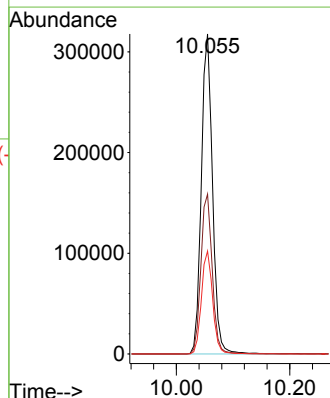
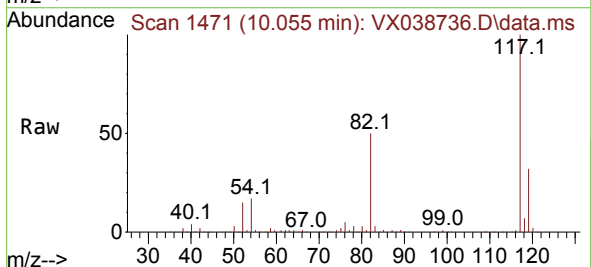
Tgt Ion: 117 Resp: 433442

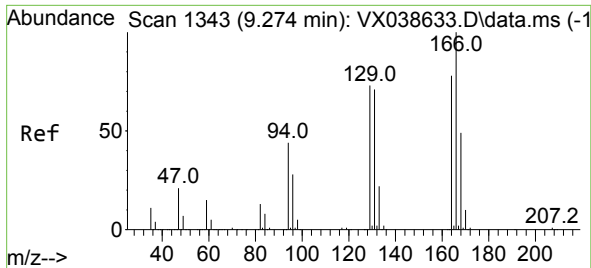
Ion Ratio Lower Upper

117 100

82 49.9 46.2 69.4

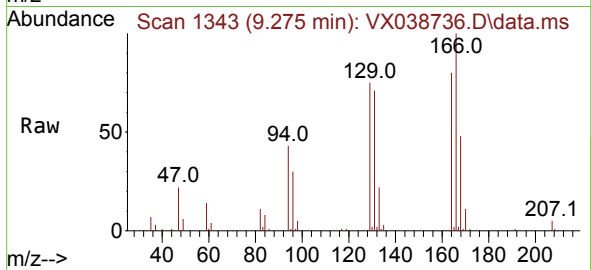
119 32.1 25.5 38.3



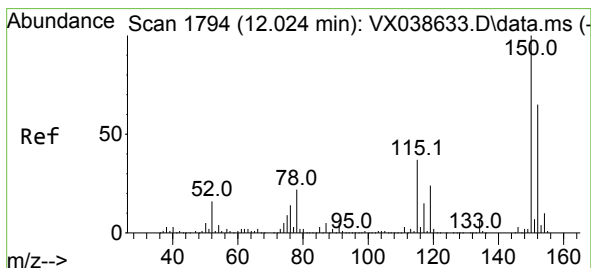
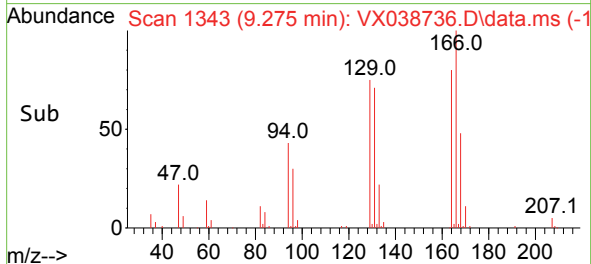
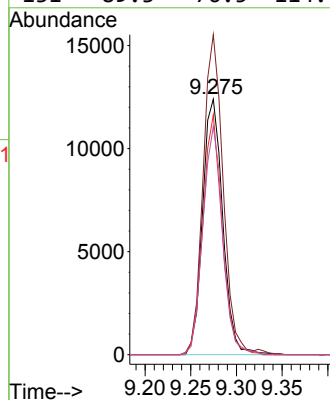


#64
Tetrachloroethene
Concen: 5.845 ug/l
RT: 9.275 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

Instrument :
MSVOA_X
ClientSampleId :

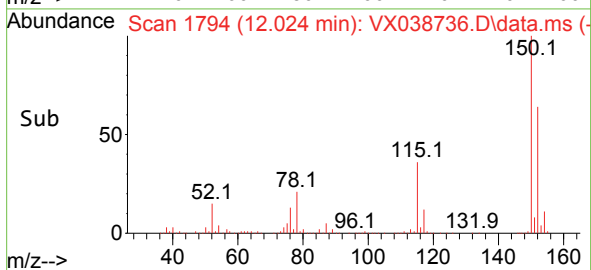
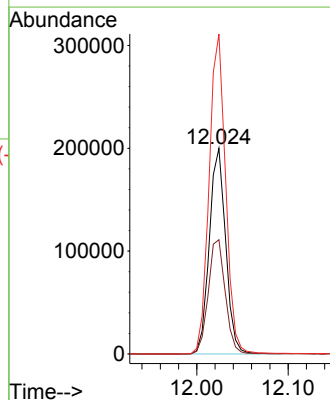
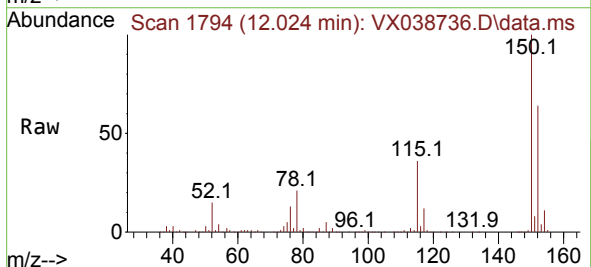


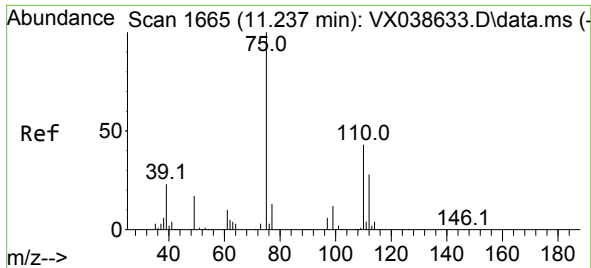
Tgt Ion:	164	Resp:	18964
Ion	Ratio	Lower	Upper
164	100		
166	125.2	102.7	154.1
129	93.8	80.4	120.6
131	89.3	76.5	114.7



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

Tgt Ion:	152	Resp:	248758
Ion	Ratio	Lower	Upper
152	100		
115	57.8	43.3	129.9
150	157.0	0.0	345.0

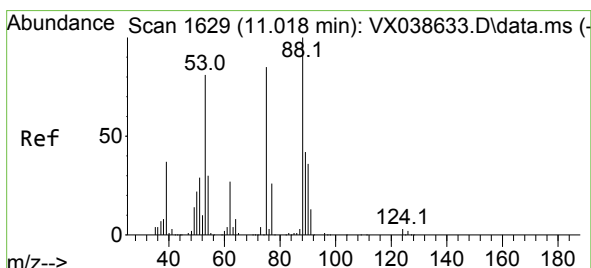
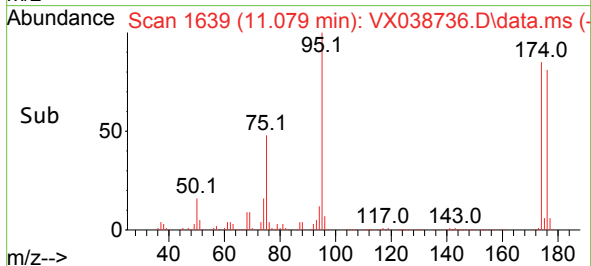
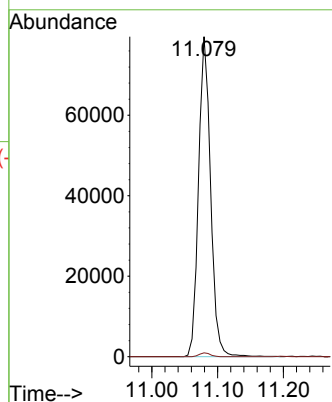
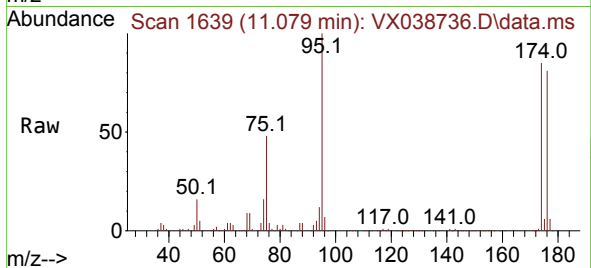




#76
1,2,3-Trichloropropane
Concen: 20.572 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 75 Resp: 101350
Ion Ratio Lower Upper
75 100
77 1.1 19.1 57.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 62.677 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX038736.D
Acq: 10 Nov 2023 18:06

Tgt Ion: 75 Resp: 101350
Ion Ratio Lower Upper
75 100
53 0.0 90.5 135.7#
89 0.0 36.9 55.3#

