

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091323\
 Data File : VX037688.D
 Acq On : 13 Sep 2023 12:27
 Operator : JC/MD
 Sample : 04373-01DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 14 02:18:09 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091123W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 12 10:10:04 2023
 Response via : Initial Calibration

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

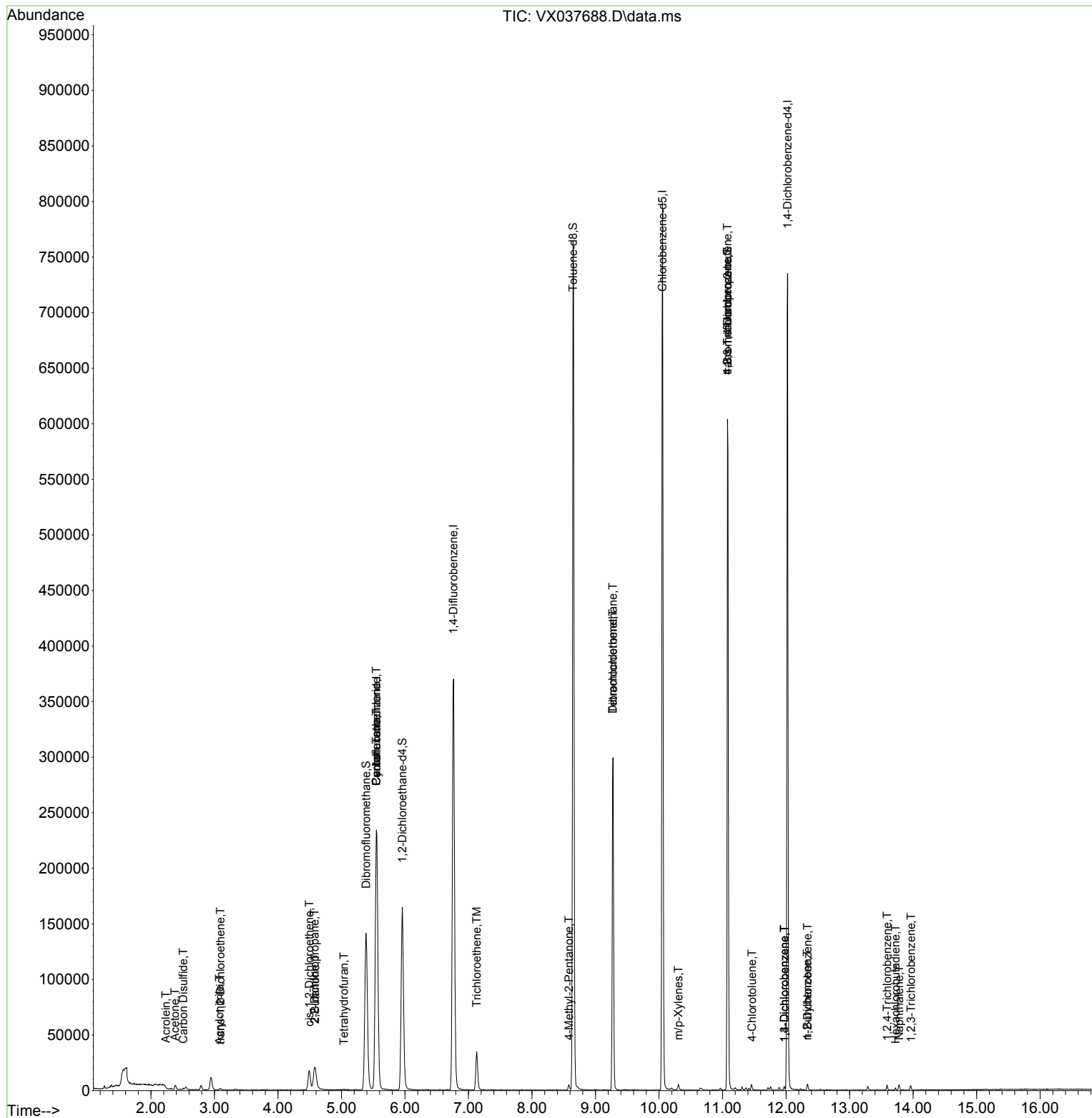
Internal Standards						
1) Pentafluorobenzene	5.550	168	221123	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	384248	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	358433	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	150148	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	153071	42.786	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	85.580%
35) Dibromofluoromethane	5.385	113	124349	45.656	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	91.320%
50) Toluene-d8	8.647	98	468350	45.596	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	91.200%#
62) 4-Bromofluorobenzene	11.079	95	160917	43.423	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	86.840%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.940	59	7019	Below Cal	#	78
13) Acrolein	2.233	56	400	0.684	ug/l #	43
15) Acrylonitrile	3.081	53	411	0.251	ug/l #	66
16) Acetone	2.380	43	4492	3.106	ug/l	90
17) Carbon Disulfide	2.508	76	1328	0.230	ug/l	96
20) Methylene Chloride	2.788	84	1948	Below Cal	#	90
21) trans-1,2-Dichloroethene	3.093	96	568	0.217	ug/l #	57
25) 2-Butanone	4.586	43	2614	1.108	ug/l	92
26) 2,2-Dichloropropane	4.574	77	1817	0.516	ug/l #	54
27) cis-1,2-Dichloroethene	4.495	96	11098	3.477	ug/l	81
29) Tetrahydrofuran	5.038	42	366	0.244	ug/l #	52
31) Cyclohexane	5.550	56	5385	1.307	ug/l #	1
38) Carbon Tetrachloride	5.550	117	23177	6.123	ug/l #	15
44) Trichloroethene	7.129	130	12810	4.565	ug/l	97
51) 4-Methyl-2-Pentanone	8.580	43	2881	0.649	ug/l	99
60) Dibromochloromethane	9.275	129	52477	17.568	ug/l #	11
64) Tetrachloroethene	9.275	164	53843	23.185	ug/l	98
68) m/p-Xylenes	10.305	106	1070	0.206	ug/l	87
76) 1,2,3-Trichloropropane	11.079	75	83127	25.183	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	83127	76.548	ug/l #	5
82) 4-Chlorotoluene	11.463	91	1936	0.213	ug/l	99
87) 1,3-Dichlorobenzene	11.975	146	1295	0.253	ug/l	93
88) 1,4-Dichlorobenzene	11.975	146	1295	0.246	ug/l	92
89) n-Butylbenzene	12.335	91	1806	0.208	ug/l	86
91) 1,2-Dichlorobenzene	12.341	146	1079	0.211	ug/l	96
93) 1,2,4-Trichlorobenzene	13.591	180	1306	0.429	ug/l	83
94) Hexachlorobutadiene	13.725	225	303	0.238	ug/l	85
95) Naphthalene	13.780	128	3593	0.325	ug/l	97
96) 1,2,3-Trichlorobenzene	13.969	180	1150	0.368	ug/l	92

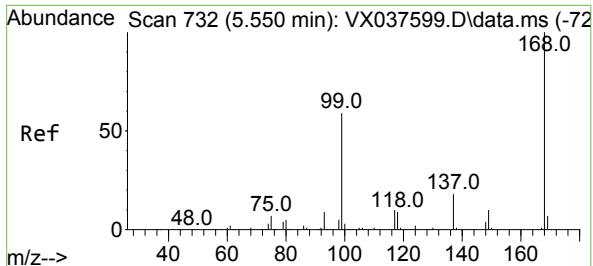
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 14 02:18:09 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091123W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 12 10:10:04 2023
Response via : Initial Calibration

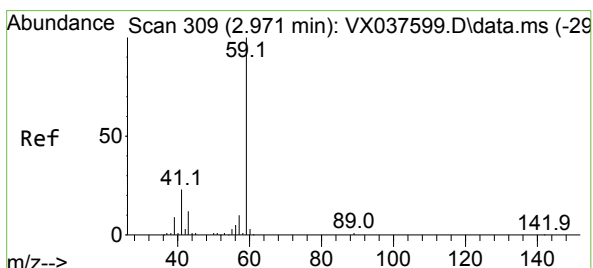
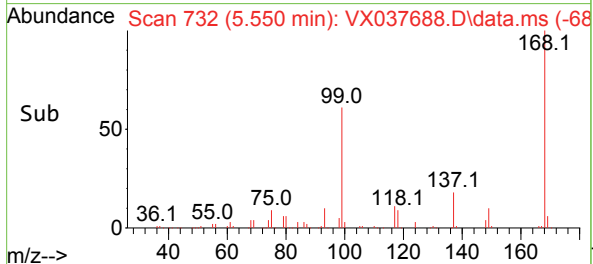
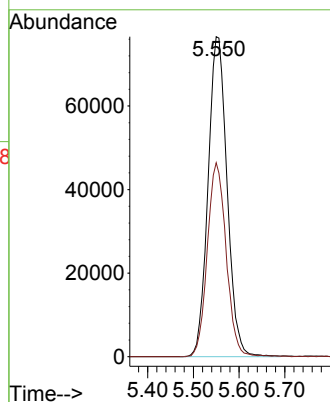
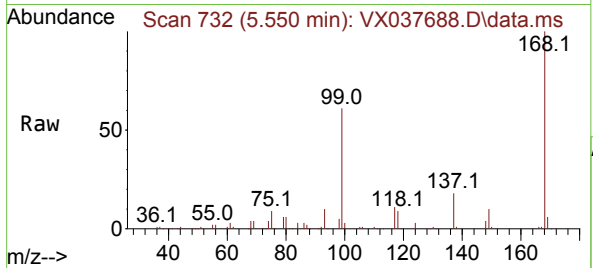




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

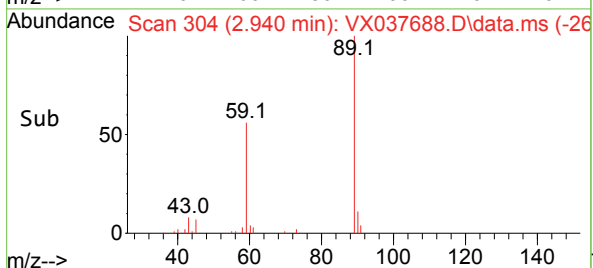
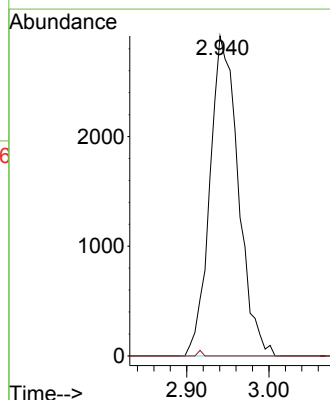
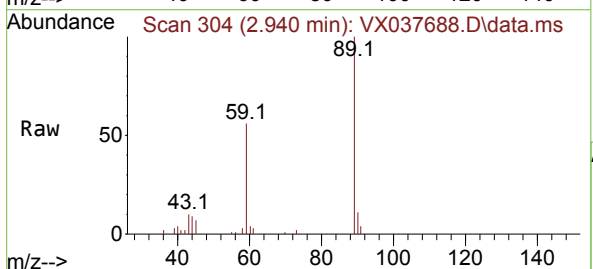
Instrument :
MSVOA_X
ClientSampleId :

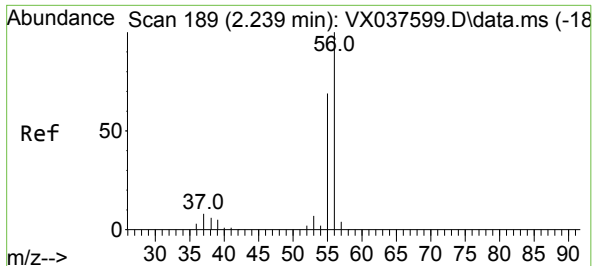
Tgt Ion:168 Resp: 221123
Ion Ratio Lower Upper
168 100
99 60.6 56.6 85.0



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.940 min Scan# 304
Delta R.T. -0.031 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

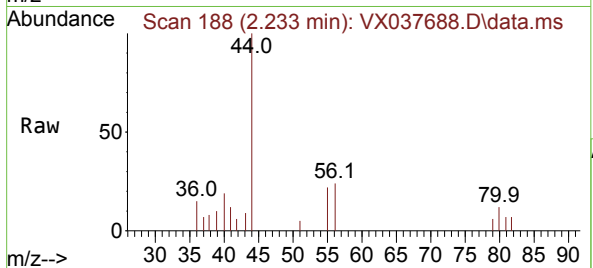
Tgt Ion: 59 Resp: 7019
Ion Ratio Lower Upper
59 100
57 0.0 6.0 9.0#



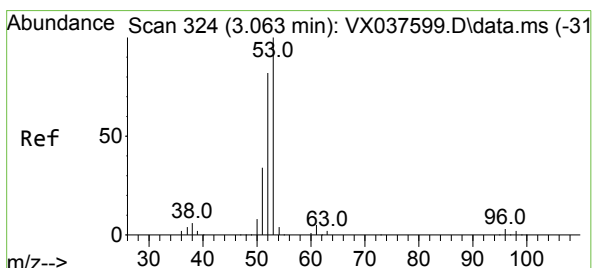
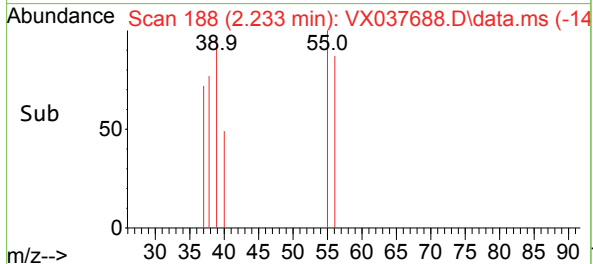
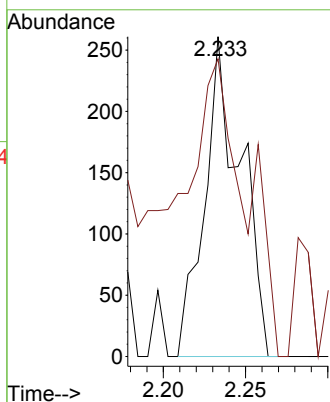


#13
Acrolein
Concen: 0.684 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Instrument :
MSVOA_X
ClientSampleId :

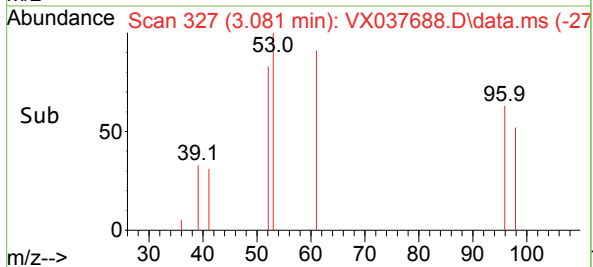
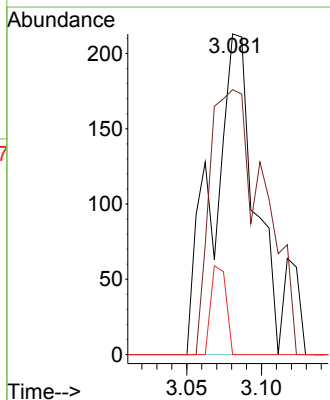
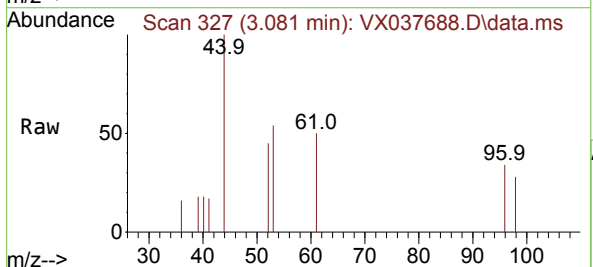


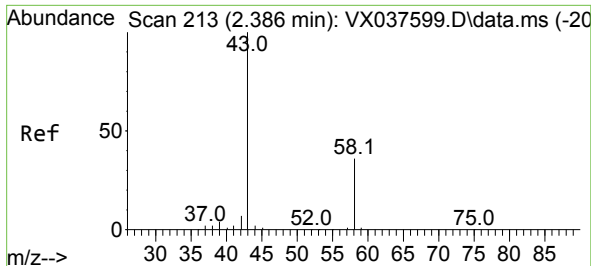
Tgt Ion: 56 Resp: 400
Ion Ratio Lower Upper
56 100
55 118.5 57.1 85.7#



#15
Acrylonitrile
Concen: 0.251 ug/l
RT: 3.081 min Scan# 327
Delta R.T. 0.018 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Tgt Ion: 53 Resp: 411
Ion Ratio Lower Upper
53 100
52 108.0 66.0 99.0#
51 10.2 29.8 44.6#





#16

Acetone

Concen: 3.106 ug/l

RT: 2.380 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX037688.D

Acq: 13 Sep 2023 12:27

Instrument :

MSVOA_X

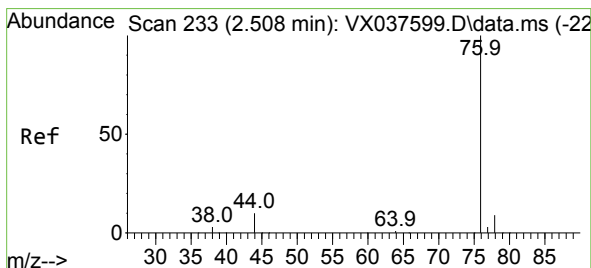
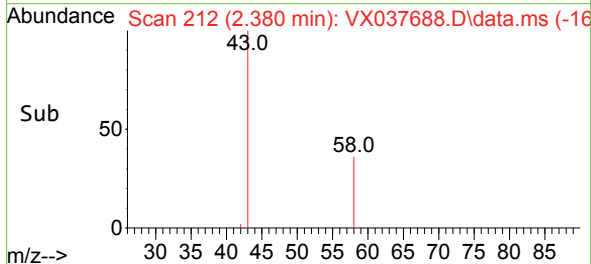
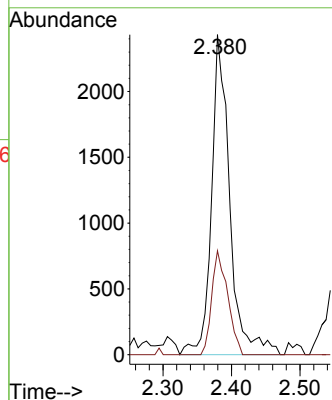
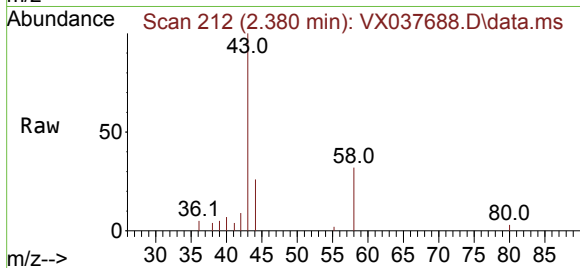
ClientSampleId :

Tgt Ion: 43 Resp: 4492

Ion Ratio Lower Upper

43 100

58 32.4 21.9 32.9



#17

Carbon Disulfide

Concen: 0.230 ug/l

RT: 2.508 min Scan# 233

Delta R.T. -0.000 min

Lab File: VX037688.D

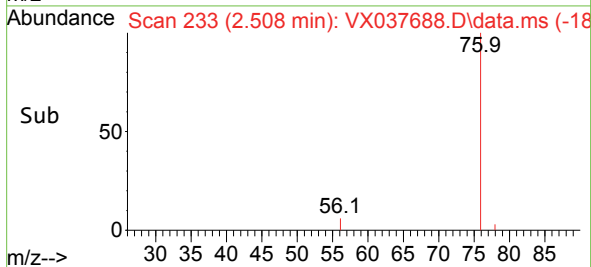
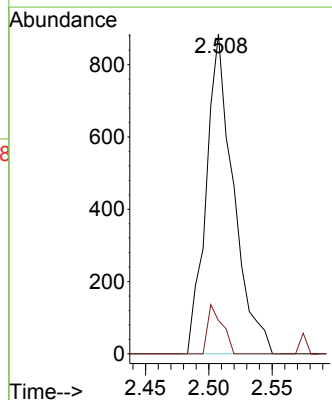
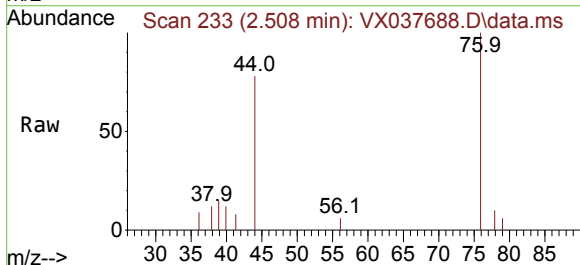
Acq: 13 Sep 2023 12:27

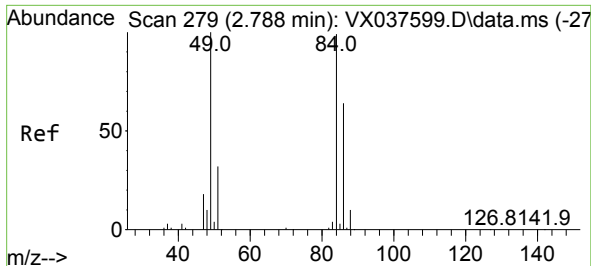
Tgt Ion: 76 Resp: 1328

Ion Ratio Lower Upper

76 100

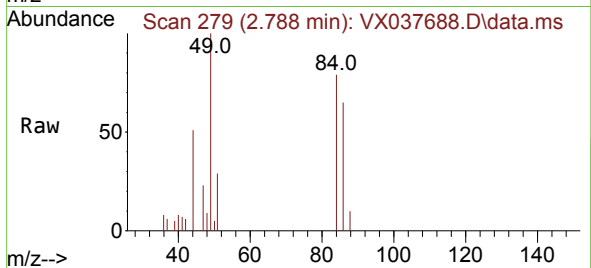
78 10.4 7.0 10.6



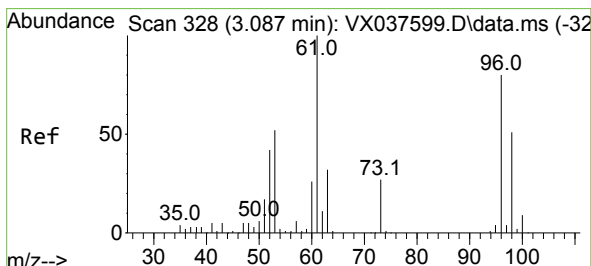
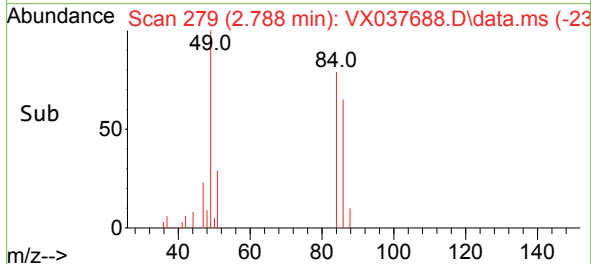
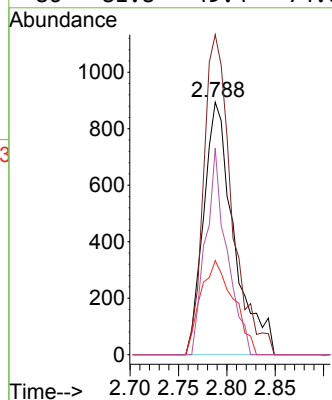


#20
Methylene Chloride
Concen: Below Cal
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Instrument :
MSVOA_X
ClientSampleId :

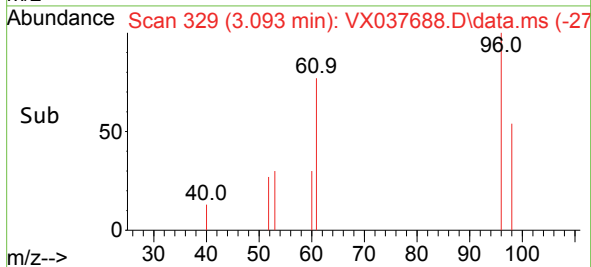
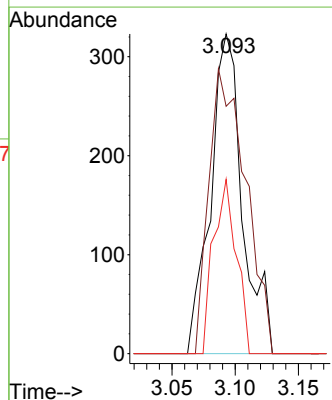
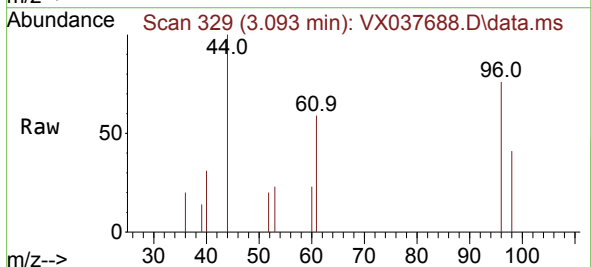


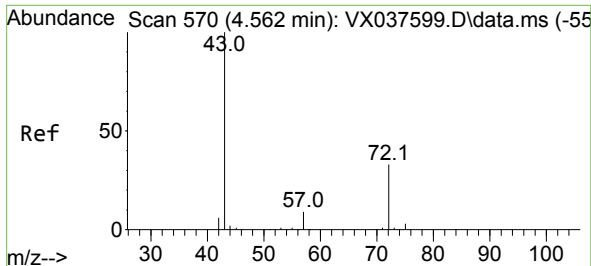
Tgt Ion: 84 Resp: 1948
Ion Ratio Lower Upper
84 100
49 126.7 103.6 155.4
51 37.2 33.8 50.6
86 81.8 49.4 74.0#



#21
trans-1,2-Dichloroethene
Concen: 0.217 ug/l
RT: 3.093 min Scan# 329
Delta R.T. 0.006 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Tgt Ion: 96 Resp: 568
Ion Ratio Lower Upper
96 100
61 77.4 119.2 178.8#
98 54.5 48.7 73.1

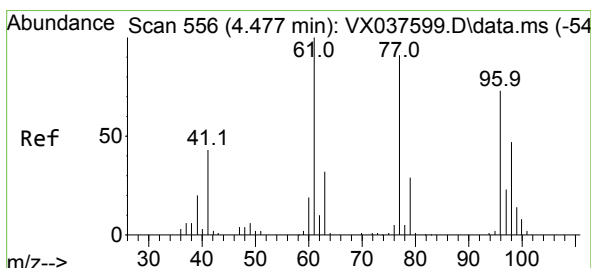
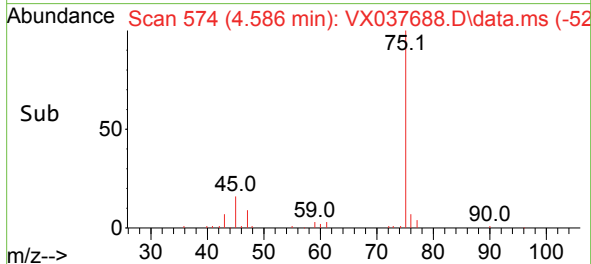
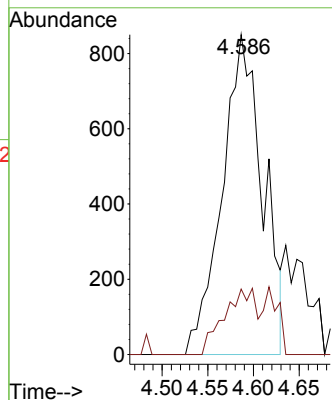
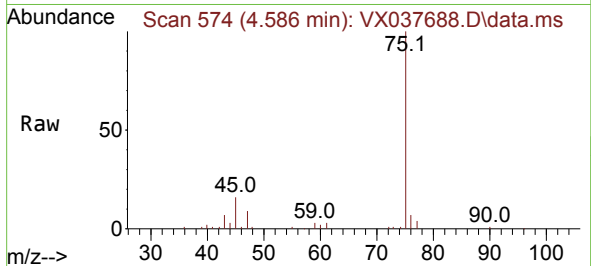




#25
2-Butanone
Concen: 1.108 ug/l
RT: 4.586 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

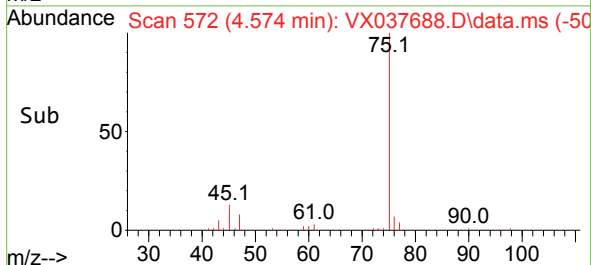
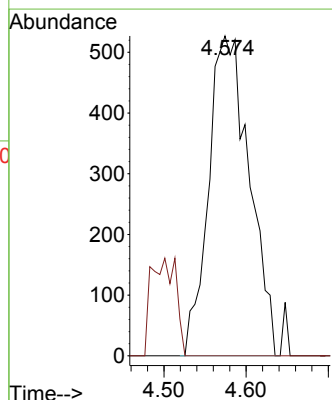
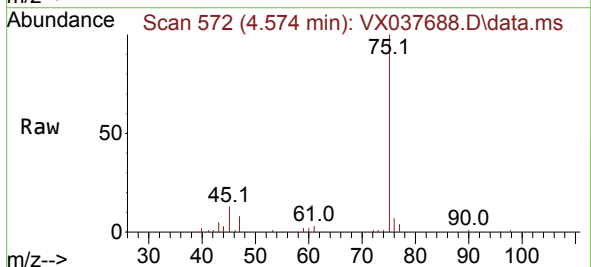
Instrument :
MSVOA_X
ClientSampleId :

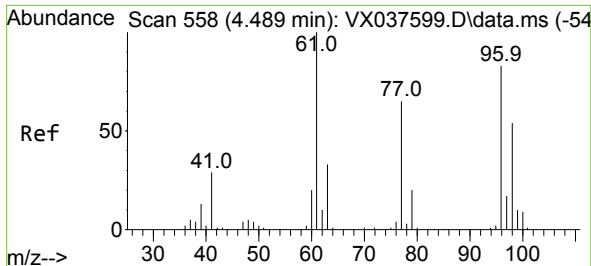
Tgt Ion: 43 Resp: 2614
Ion Ratio Lower Upper
43 100
72 20.5 19.4 29.2



#26
2,2-Dichloropropane
Concen: 0.516 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.097 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Tgt Ion: 77 Resp: 1817
Ion Ratio Lower Upper
77 100
97 0.0 10.8 32.3#





#27

cis-1,2-Dichloroethene

Concen: 3.477 ug/l

RT: 4.495 min Scan# 51

Delta R.T. 0.006 min

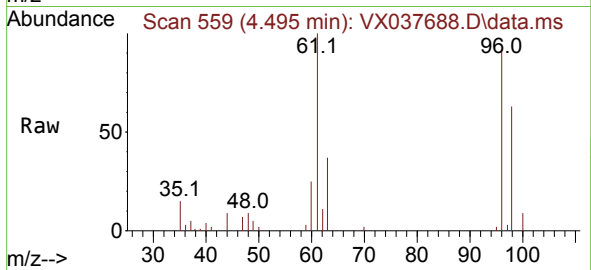
Lab File: VX037688.D

Acq: 13 Sep 2023 12:27

Instrument :

MSVOA_X

ClientSampleId :



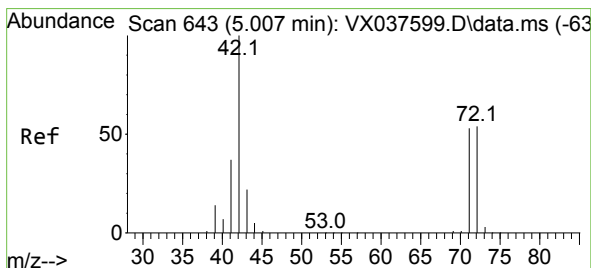
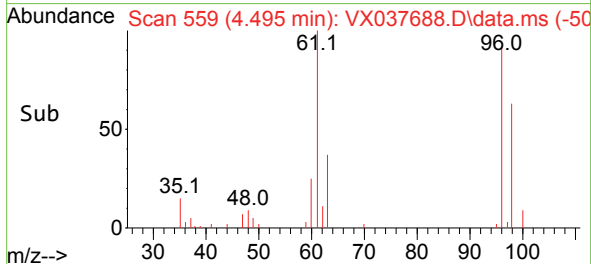
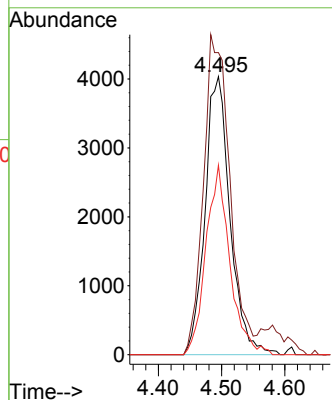
Tgt Ion: 96 Resp: 11098

Ion Ratio Lower Upper

96 100

61 121.2 0.0 312.2

98 65.4 0.0 129.0



#29

Tetrahydrofuran

Concen: 0.244 ug/l

RT: 5.038 min Scan# 648

Delta R.T. 0.030 min

Lab File: VX037688.D

Acq: 13 Sep 2023 12:27

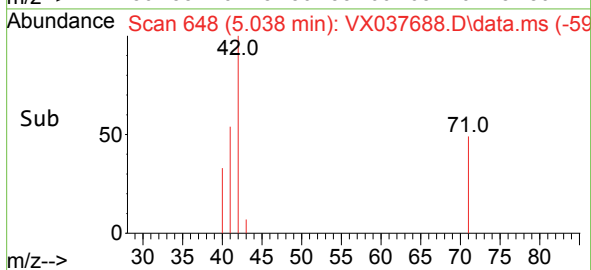
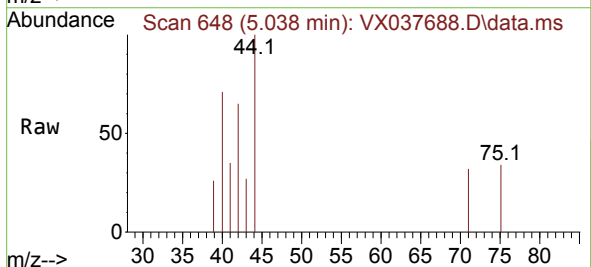
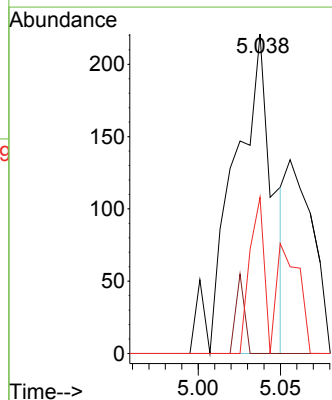
Tgt Ion: 42 Resp: 366

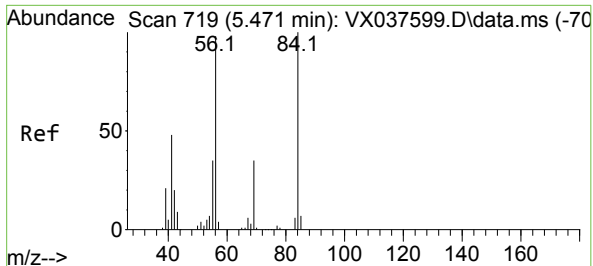
Ion Ratio Lower Upper

42 100

72 5.5 34.2 51.4#

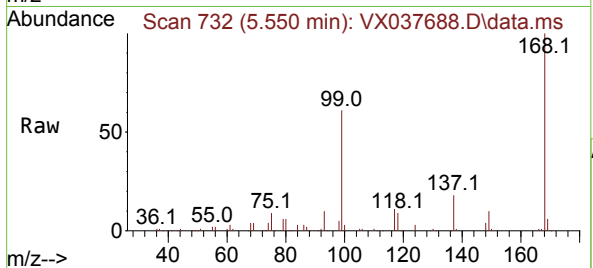
71 18.0 32.2 48.2#



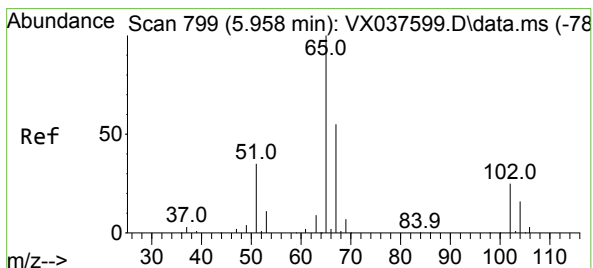
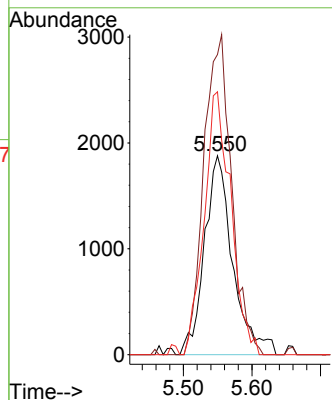
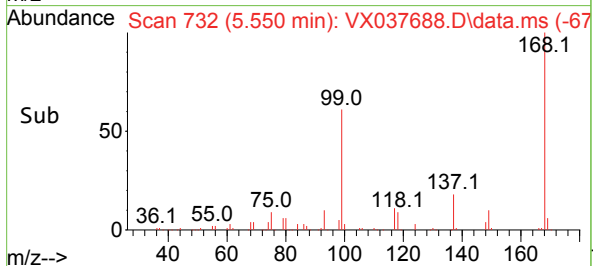


#31
Cyclohexane
Concen: 1.307 ug/l
RT: 5.550 min Scan# 719
Delta R.T. 0.079 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Instrument :
MSVOA_X
ClientSampleId :

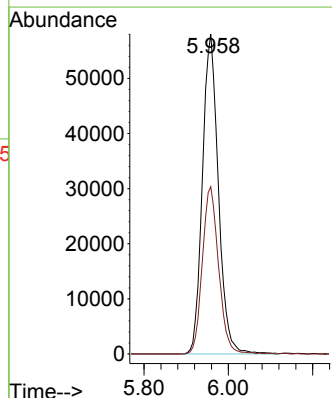
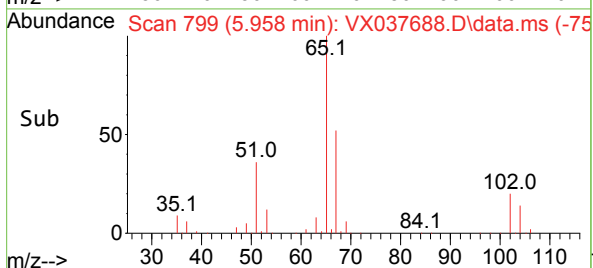
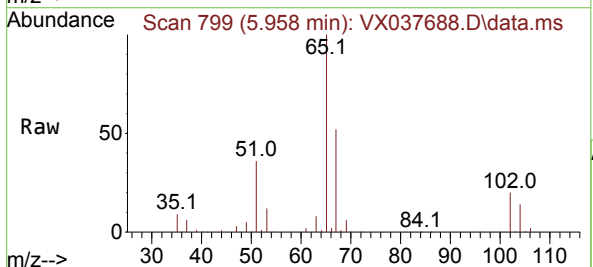


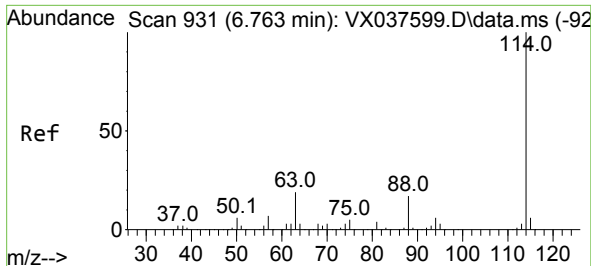
Tgt Ion: 56 Resp: 5385
Ion Ratio Lower Upper
56 100
69 151.0 23.4 35.2#
84 132.2 65.9 98.9#



#33
1,2-Dichloroethane-d4
Concen: 42.786 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Tgt Ion: 65 Resp: 153071
Ion Ratio Lower Upper
65 100
67 53.1 0.0 100.2

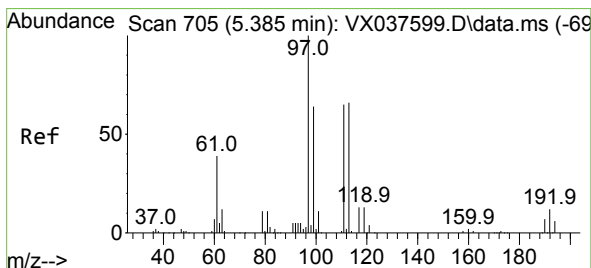
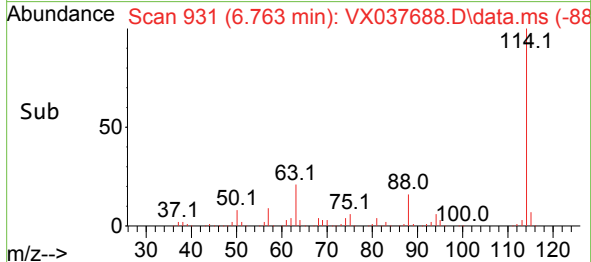
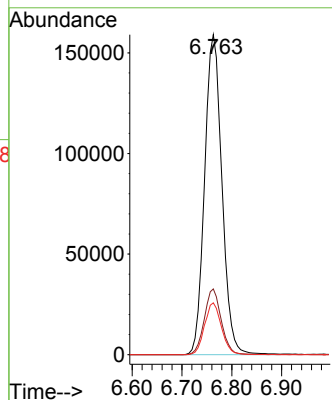
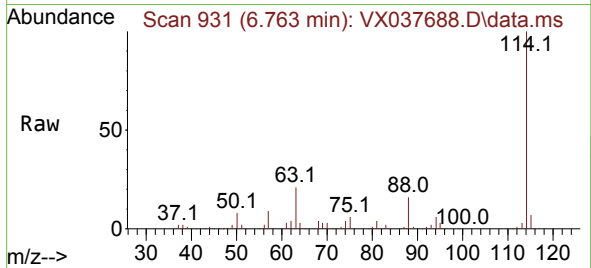




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

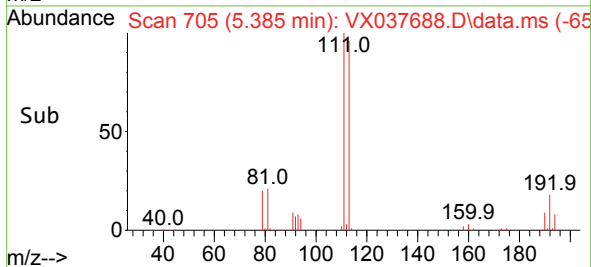
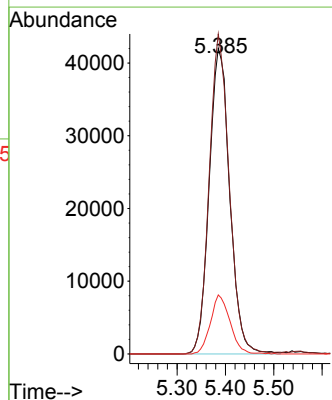
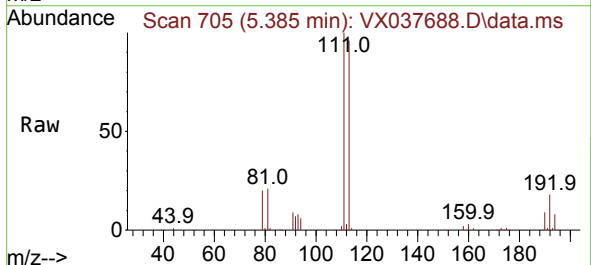
Instrument :
MSVOA_X
ClientSampleId :

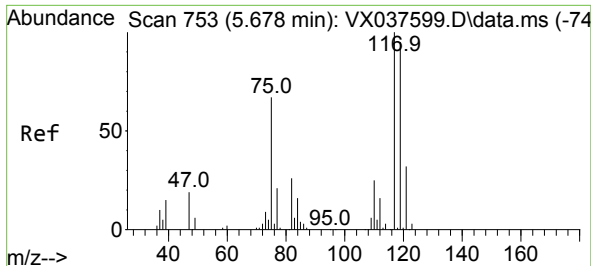
Tgt Ion:114 Resp: 384248
Ion Ratio Lower Upper
114 100
63 20.5 0.0 45.0
88 16.2 0.0 36.6



#35
Dibromofluoromethane
Concen: 45.656 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.000 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

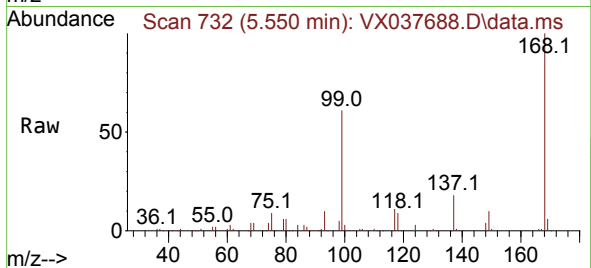
Tgt Ion:113 Resp: 124349
Ion Ratio Lower Upper
113 100
111 102.1 82.9 124.3
192 18.4 13.3 19.9



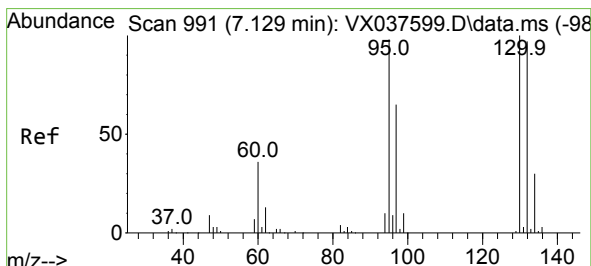
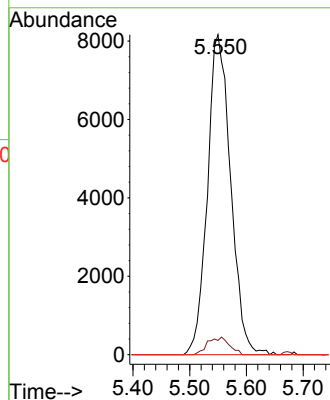
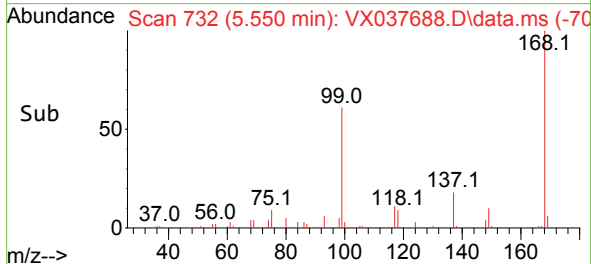


#38
Carbon Tetrachloride
Concen: 6.123 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Instrument :
MSVOA_X
ClientSampleId :

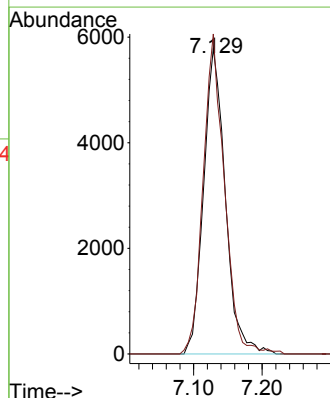
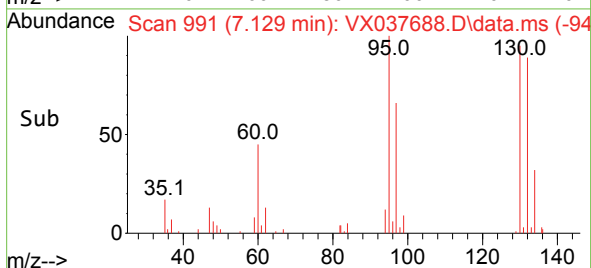
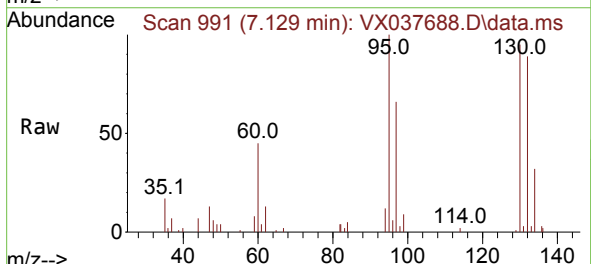


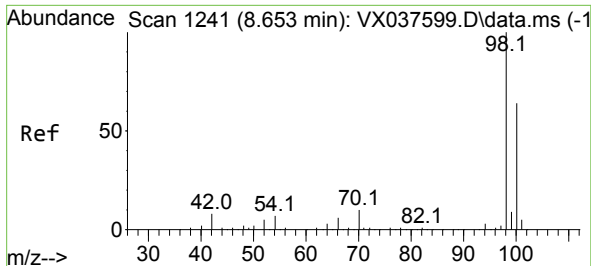
Tgt Ion:117 Resp: 23177
Ion Ratio Lower Upper
117 100
119 4.5 78.2 117.2#
121 0.0 24.4 36.6#



#44
Trichloroethene
Concen: 4.565 ug/l
RT: 7.129 min Scan# 991
Delta R.T. -0.000 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Tgt Ion:130 Resp: 12810
Ion Ratio Lower Upper
130 100
95 104.8 0.0 204.4

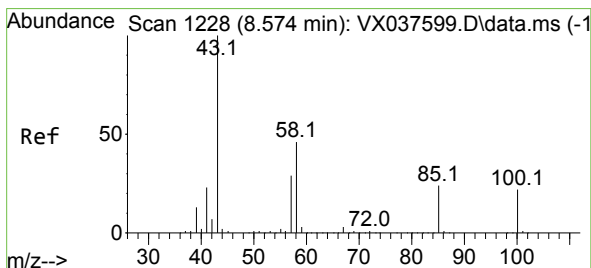
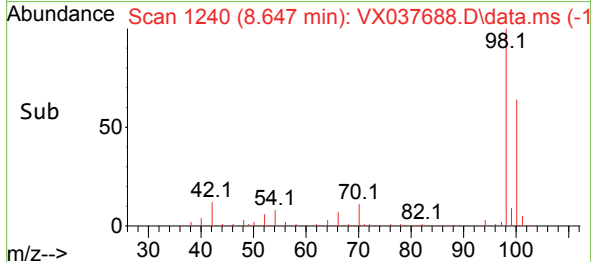
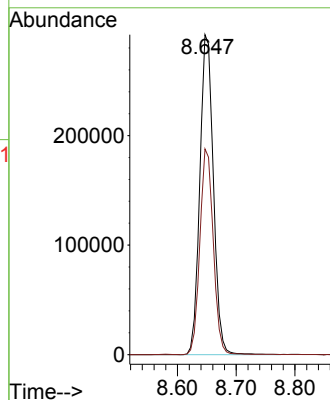
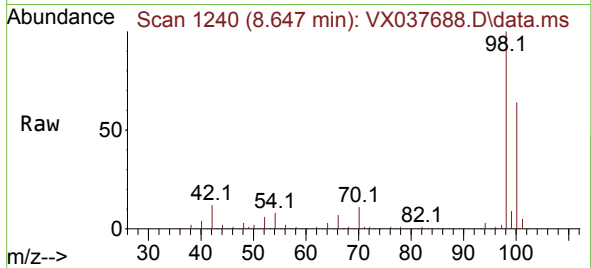




#50
Toluene-d8
Concen: 45.596 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.006 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

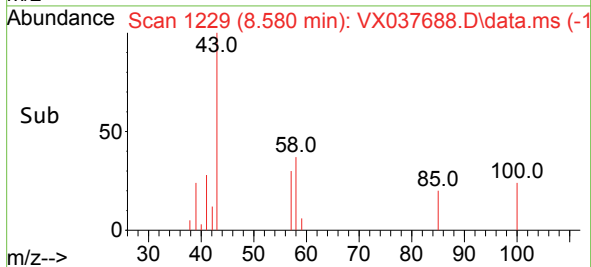
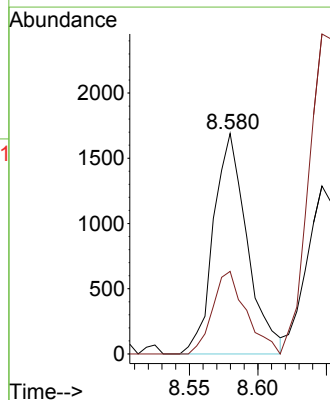
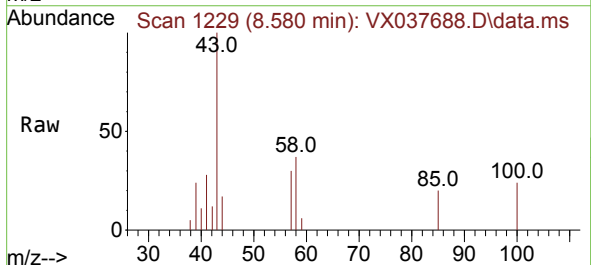
Instrument :
MSVOA_X
ClientSampleId :

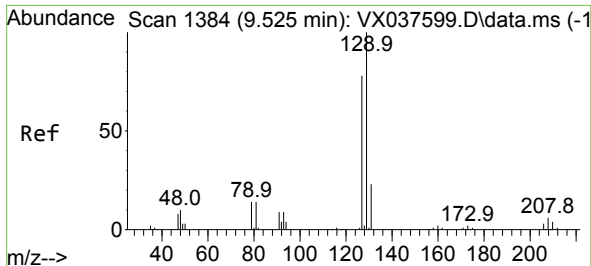
Tgt Ion: 98 Resp: 468350
Ion Ratio Lower Upper
98 100
100 63.6 53.1 79.7



#51
4-Methyl-2-Pentanone
Concen: 0.649 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Tgt Ion: 43 Resp: 2881
Ion Ratio Lower Upper
43 100
58 37.3 30.4 45.6

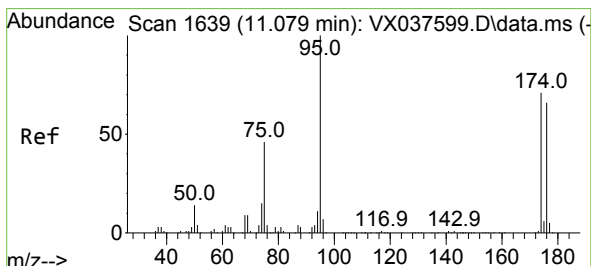
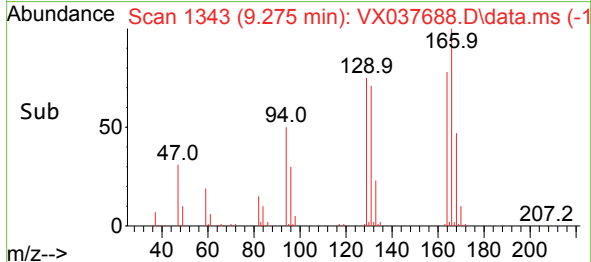
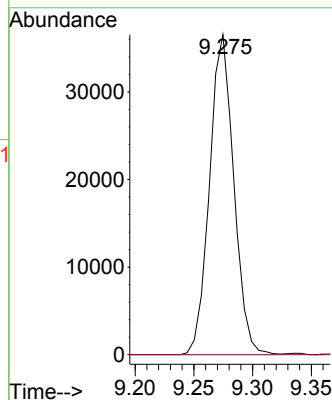
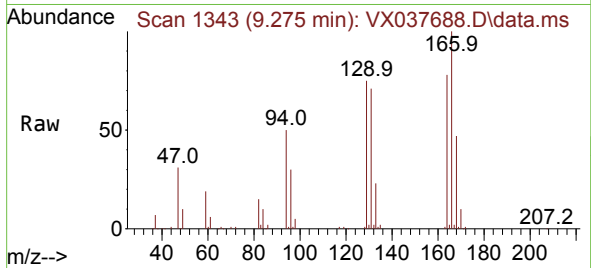




#60
Dibromochloromethane
Concen: 17.568 ug/l
RT: 9.275 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

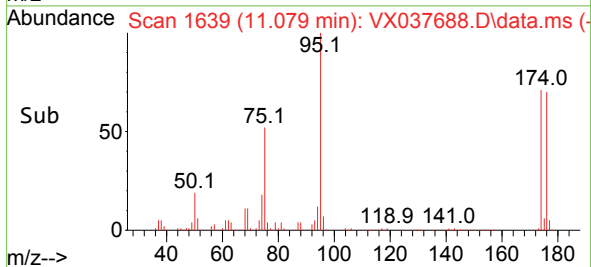
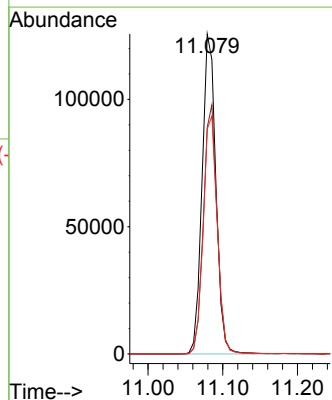
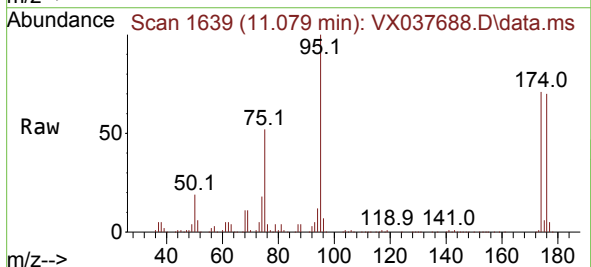
Instrument :
MSVOA_X
ClientSampleId :

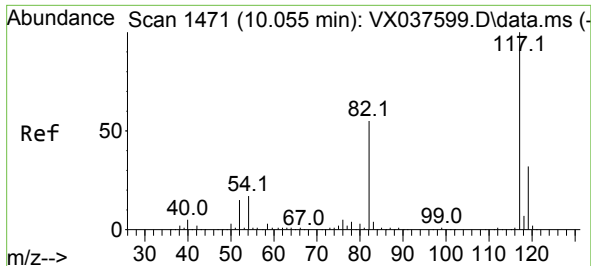
Tgt Ion:129 Resp: 52477
Ion Ratio Lower Upper
129 100
127 0.0 38.8 116.4#



#62
4-Bromofluorobenzene
Concen: 43.423 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

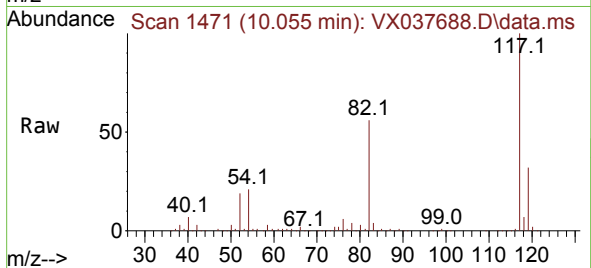
Tgt Ion: 95 Resp: 160917
Ion Ratio Lower Upper
95 100
174 77.7 0.0 135.6
176 75.7 0.0 131.0



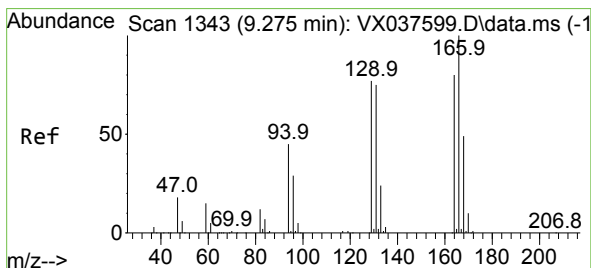
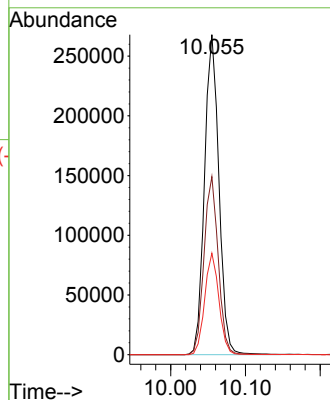
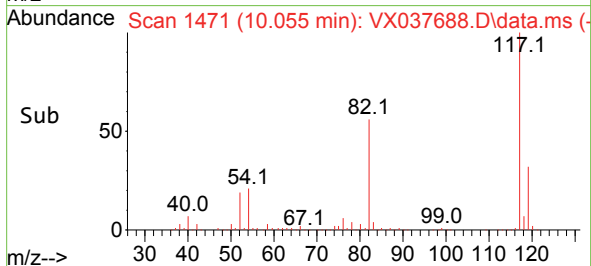


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Instrument :
MSVOA_X
ClientSampleId :

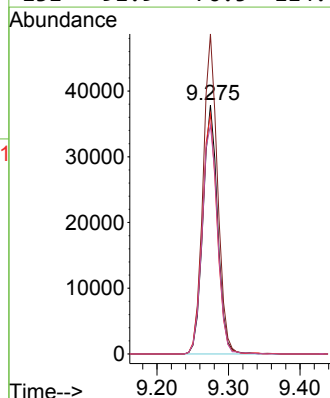
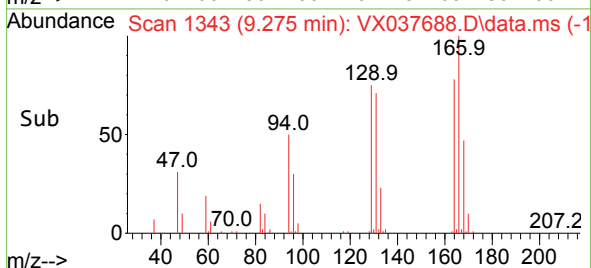
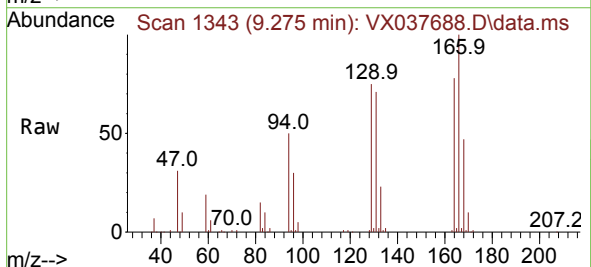


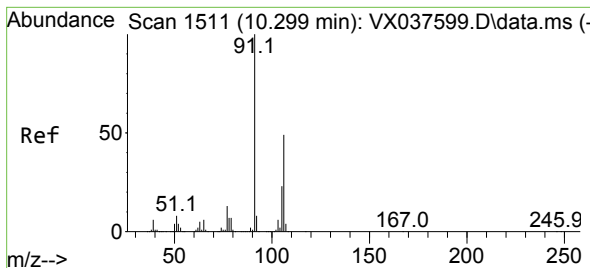
Tgt Ion:117 Resp: 358433
Ion Ratio Lower Upper
117 100
82 55.6 46.2 69.4
119 31.7 25.5 38.3



#64
Tetrachloroethene
Concen: 23.185 ug/l
RT: 9.275 min Scan# 1343
Delta R.T. -0.000 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Tgt Ion:164 Resp: 53843
Ion Ratio Lower Upper
164 100
166 128.6 102.7 154.1
129 96.5 80.4 120.6
131 91.9 76.5 114.7

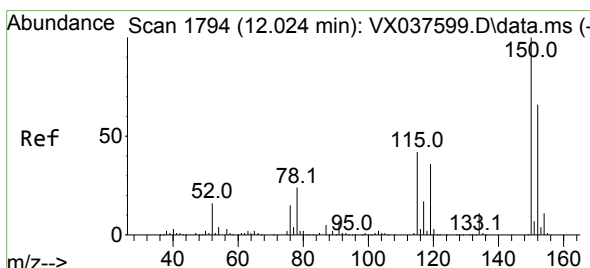
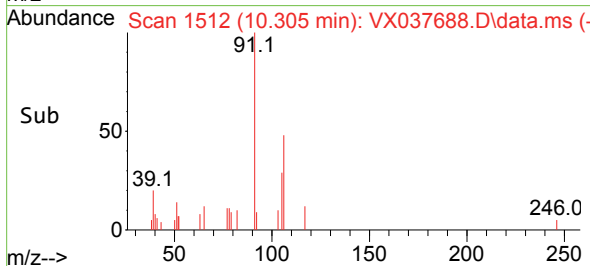
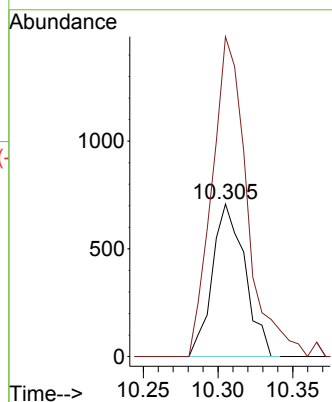
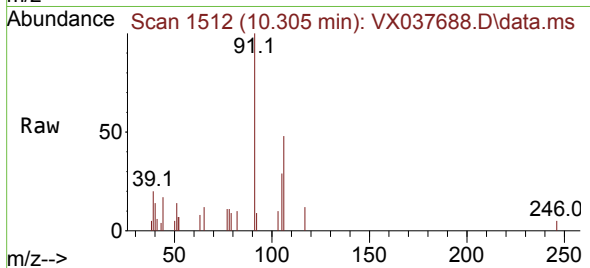




#68
m/p-Xylenes
Concen: 0.206 ug/l
RT: 10.305 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

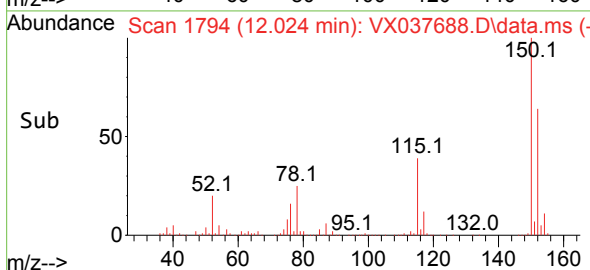
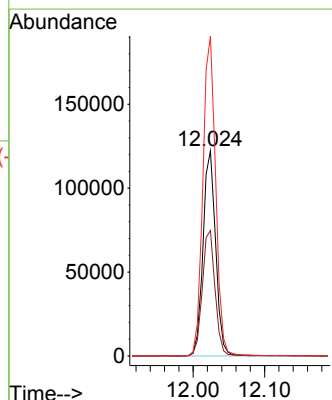
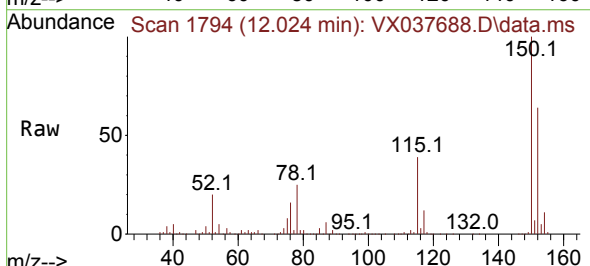
Instrument :
MSVOA_X
ClientSampleId :

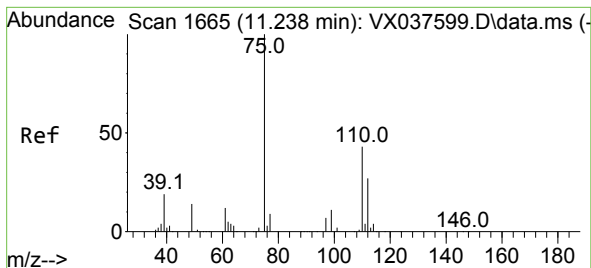
Tgt Ion:106 Resp: 1070
Ion Ratio Lower Upper
106 100
91 226.6 165.5 248.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Tgt Ion:152 Resp: 150148
Ion Ratio Lower Upper
152 100
115 61.7 43.3 129.9
150 157.7 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 25.183 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX037688.D

Acq: 13 Sep 2023 12:27

Instrument :

MSVOA_X

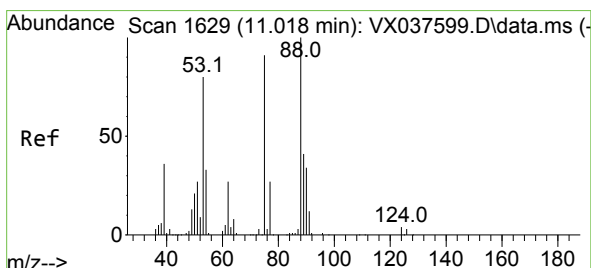
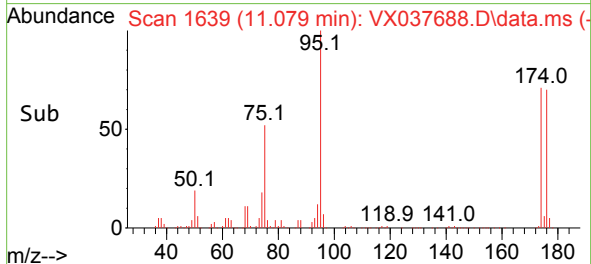
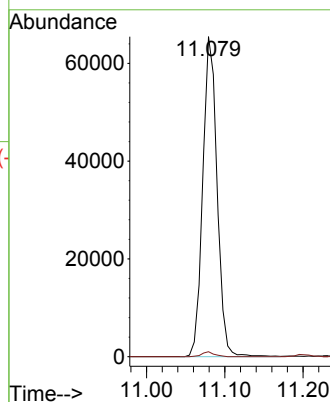
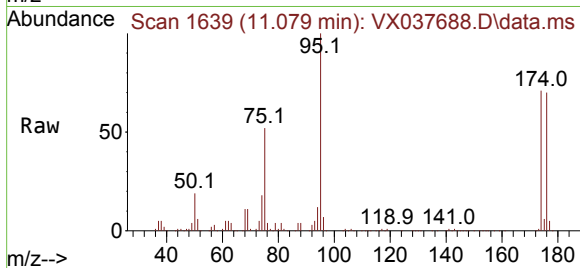
ClientSampleId :

Tgt Ion: 75 Resp: 83127

Ion Ratio Lower Upper

75 100

77 1.3 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 76.548 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX037688.D

Acq: 13 Sep 2023 12:27

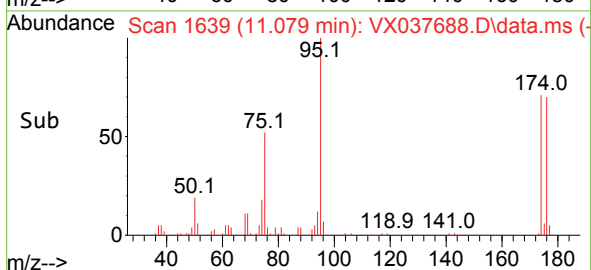
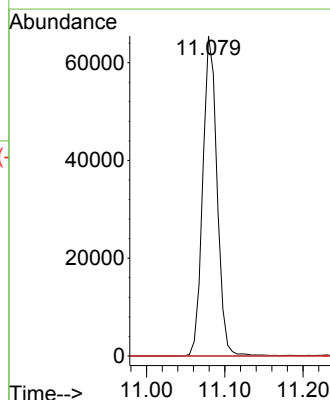
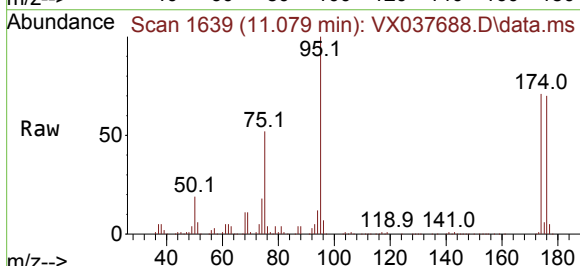
Tgt Ion: 75 Resp: 83127

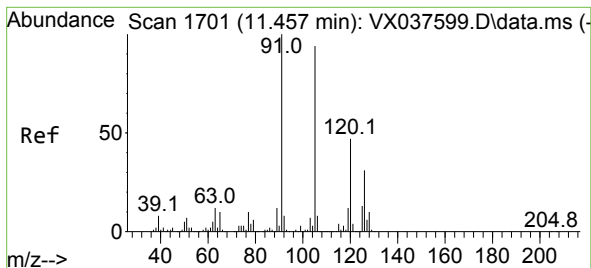
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#82

4-Chlorotoluene

Concen: 0.213 ug/l

RT: 11.463 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX037688.D

Acq: 13 Sep 2023 12:27

Instrument :

MSVOA_X

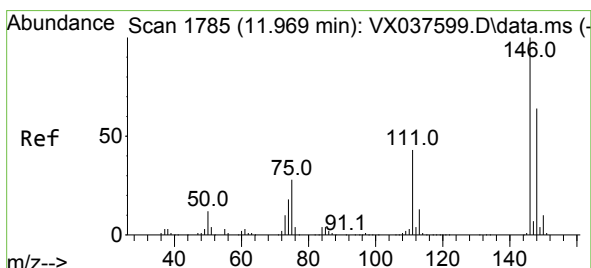
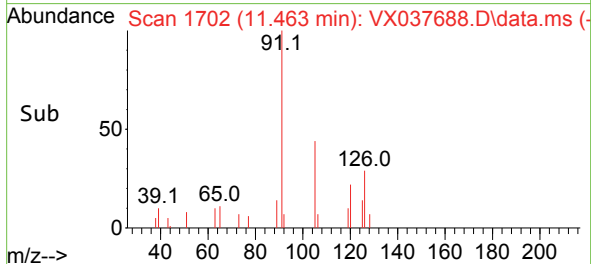
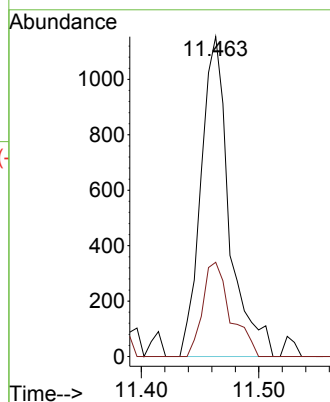
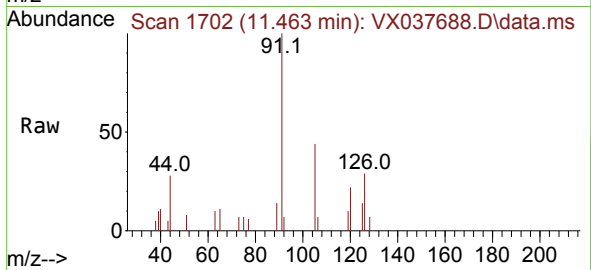
ClientSampleId :

Tgt Ion: 91 Resp: 1936

Ion Ratio Lower Upper

91 100

126 29.0 14.2 42.6



#87

1,3-Dichlorobenzene

Concen: 0.253 ug/l

RT: 11.975 min Scan# 1786

Delta R.T. 0.006 min

Lab File: VX037688.D

Acq: 13 Sep 2023 12:27

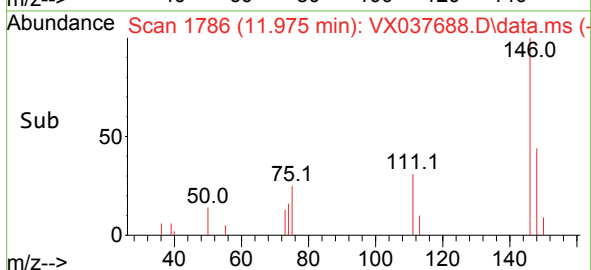
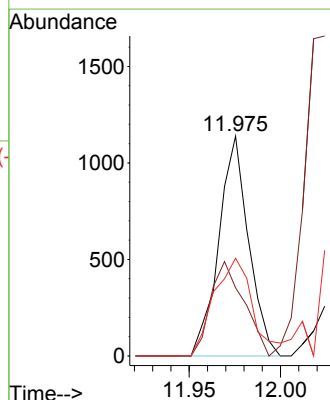
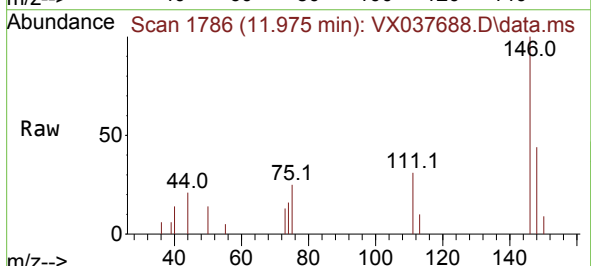
Tgt Ion:146 Resp: 1295

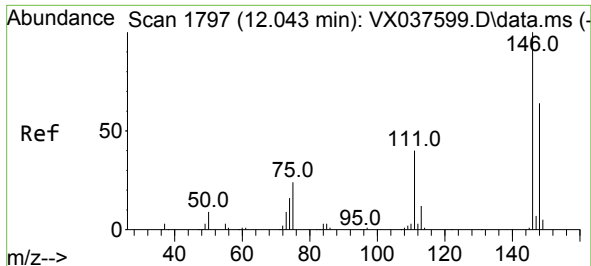
Ion Ratio Lower Upper

146 100

111 47.7 22.1 66.1

148 57.1 31.8 95.3





#88

1,4-Dichlorobenzene

Concen: 0.246 ug/l

RT: 11.975 min Scan# 11

Delta R.T. -0.067 min

Lab File: VX037688.D

Acq: 13 Sep 2023 12:27

Instrument :

MSVOA_X

ClientSampleId :

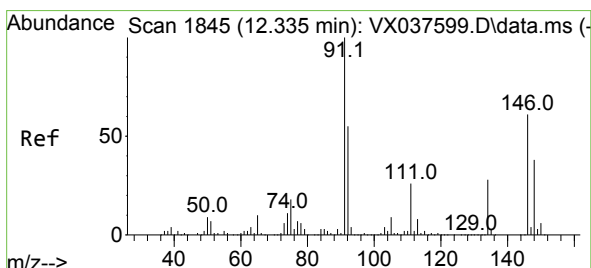
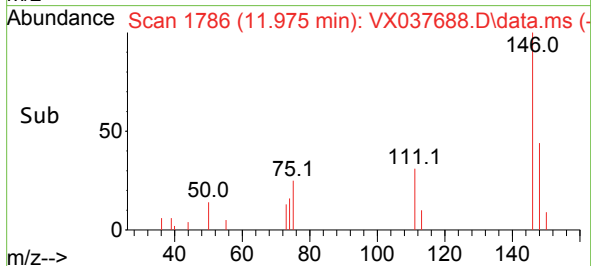
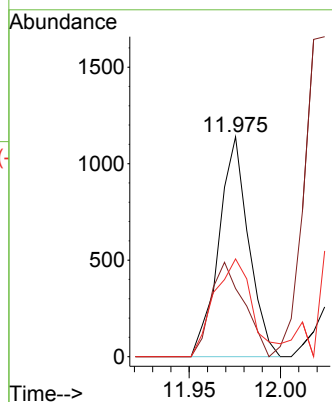
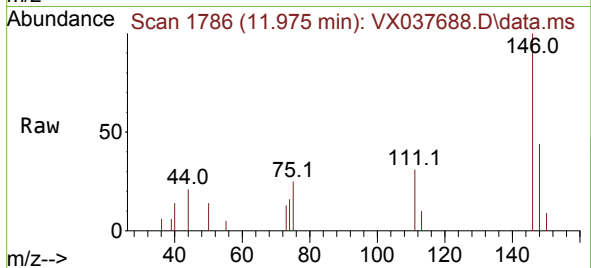
Tgt Ion:146 Resp: 1295

Ion Ratio Lower Upper

146 100

111 47.7 21.3 63.7

148 57.1 31.8 95.4



#89

n-Butylbenzene

Concen: 0.208 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. -0.000 min

Lab File: VX037688.D

Acq: 13 Sep 2023 12:27

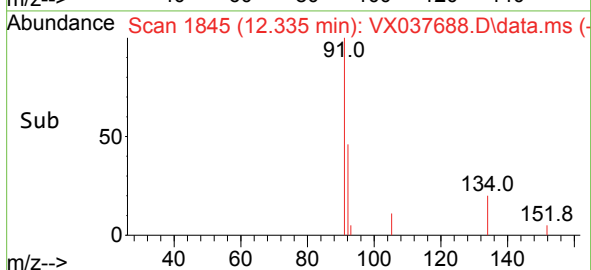
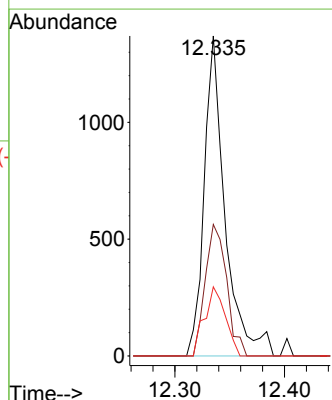
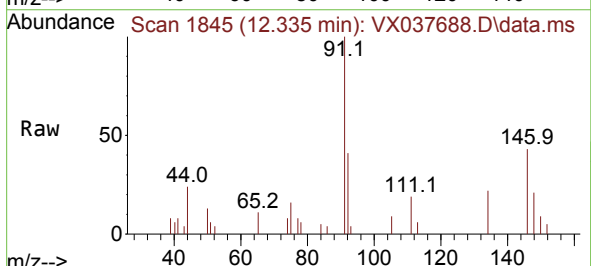
Tgt Ion: 91 Resp: 1806

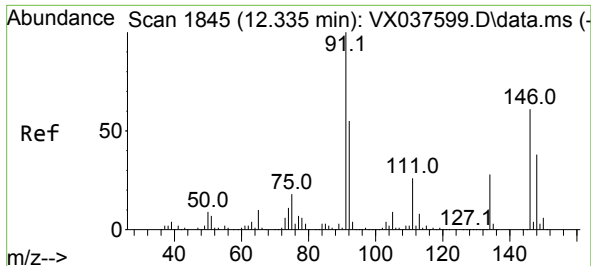
Ion Ratio Lower Upper

91 100

92 42.3 27.4 82.0

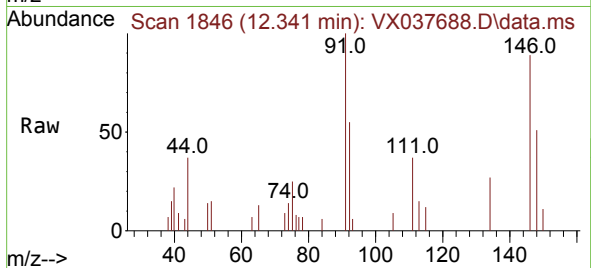
134 21.7 12.6 37.8



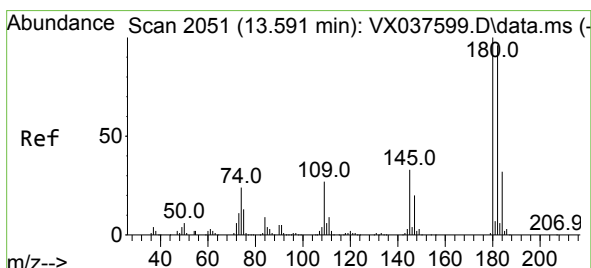
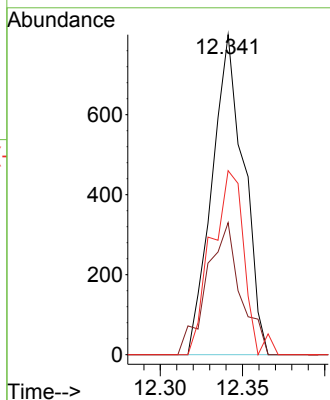
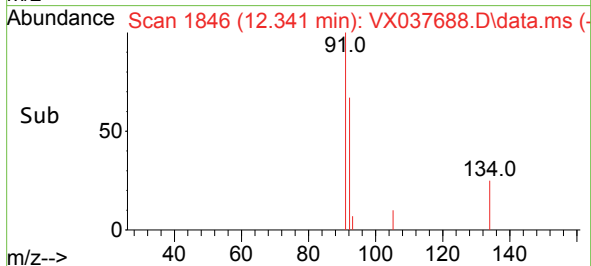


#91
1,2-Dichlorobenzene
Concen: 0.211 ug/l
RT: 12.341 min Scan# 1845
Delta R.T. 0.006 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

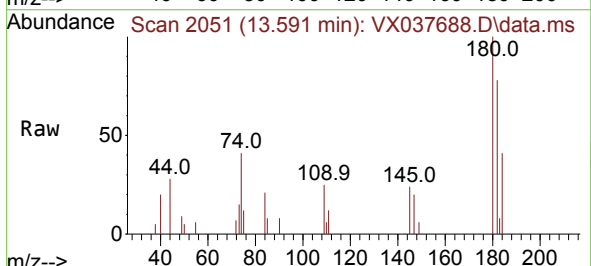
Instrument :
MSVOA_X
ClientSampleId :



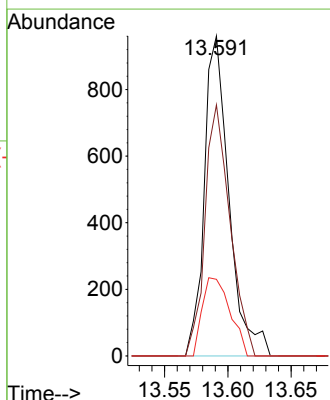
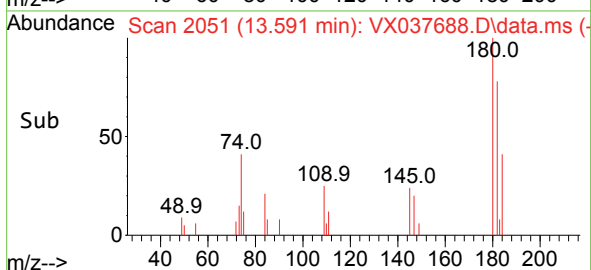
Tgt Ion:146 Resp: 1079
Ion Ratio Lower Upper
146 100
111 43.9 22.4 67.0
148 59.2 31.6 95.0

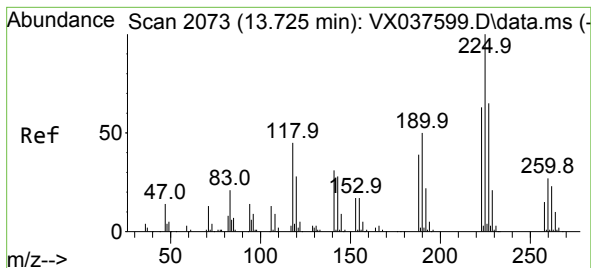


#93
1,2,4-Trichlorobenzene
Concen: 0.429 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. -0.000 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27



Tgt Ion:180 Resp: 1306
Ion Ratio Lower Upper
180 100
182 79.5 48.3 144.8
145 27.4 18.0 54.0





#94

Hexachlorobutadiene

Concen: 0.238 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. -0.000 min

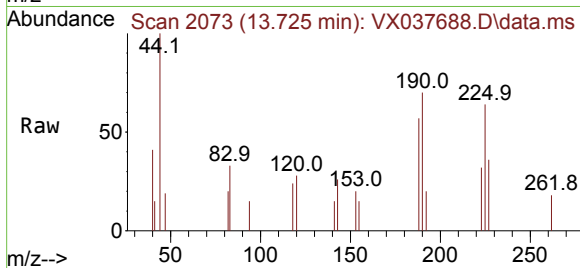
Lab File: VX037688.D

Acq: 13 Sep 2023 12:27

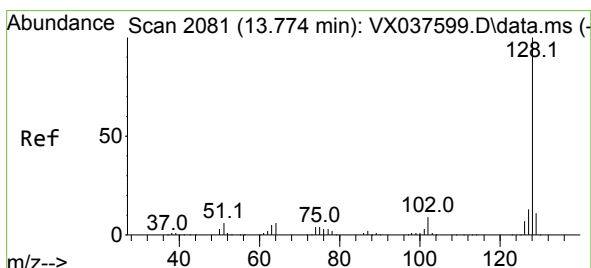
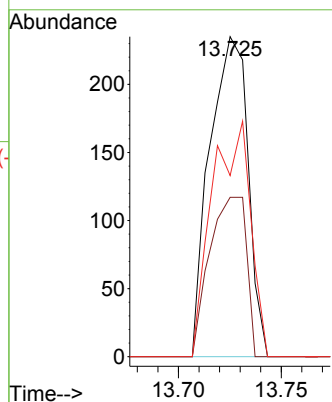
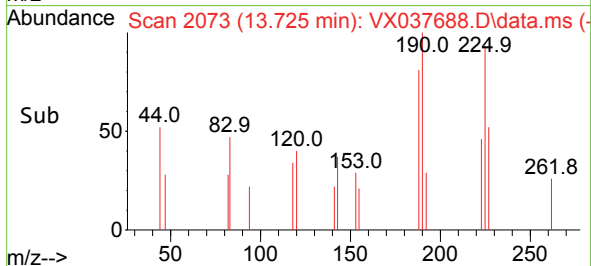
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	225	Resp:	303
Ion	Ratio	Lower	Upper
225	100		
223	48.2	31.1	93.2
227	73.9	32.5	97.5



#95

Naphthalene

Concen: 0.325 ug/l

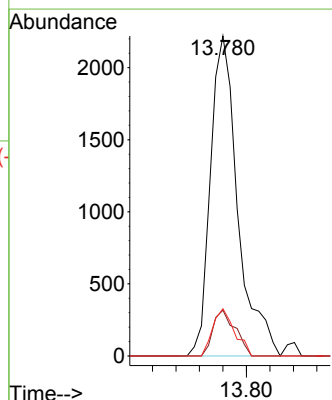
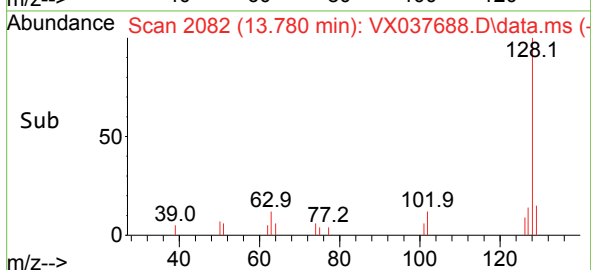
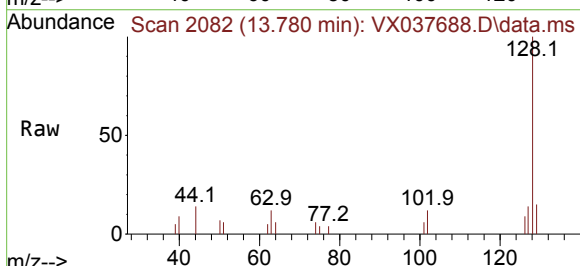
RT: 13.780 min Scan# 2082

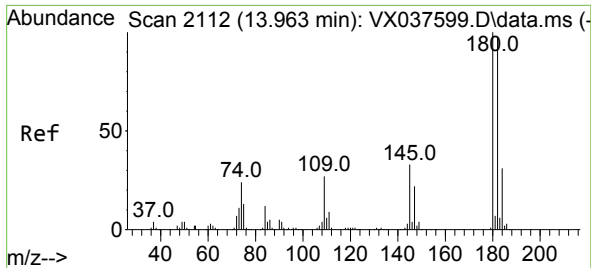
Delta R.T. 0.006 min

Lab File: VX037688.D

Acq: 13 Sep 2023 12:27

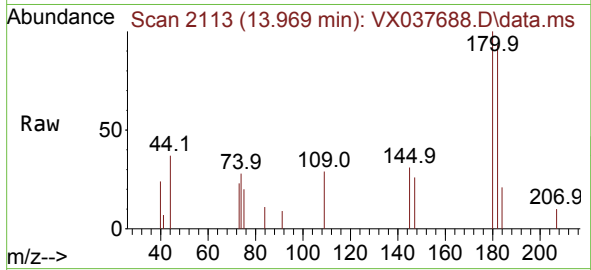
Tgt Ion:	128	Resp:	3593
Ion	Ratio	Lower	Upper
128	100		
127	11.6	10.3	15.5
129	11.7	8.8	13.2





#96
1,2,3-Trichlorobenzene
Concen: 0.368 ug/l
RT: 13.969 min Scan# 2113
Delta R.T. 0.006 min
Lab File: VX037688.D
Acq: 13 Sep 2023 12:27

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:	180	Resp:	1150
Ion	Ratio	Lower	Upper
180	100		
182	103.5	46.9	140.6
145	36.2	17.8	53.5

