

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX042022\
 Data File : VX028221.D
 Acq On : 21 Apr 2022 01:29
 Operator : JC/MD
 Sample : PB144231ZHE#03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB144231ZHE#03

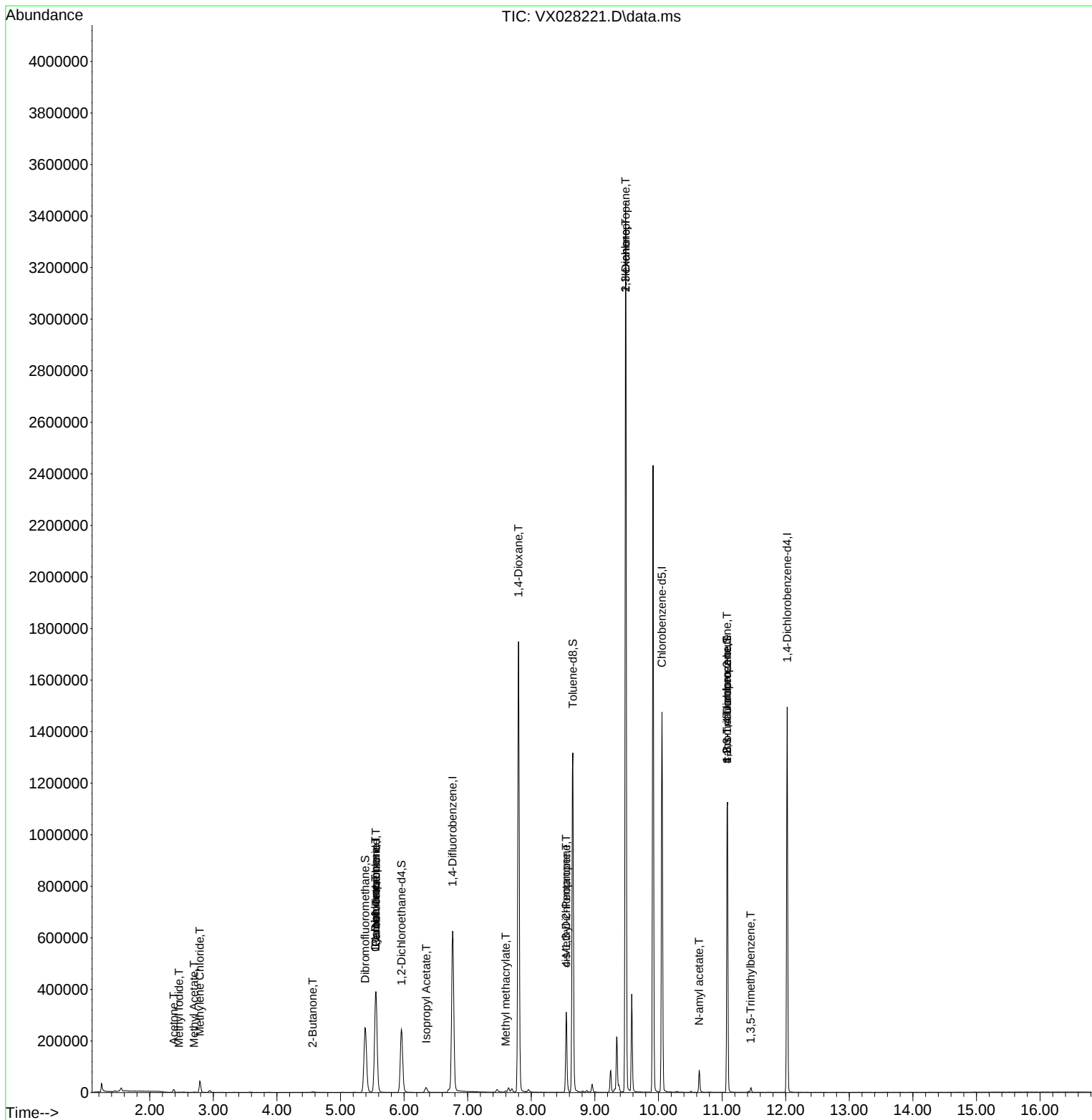
Quant Time: Apr 21 06:20:49 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X041922W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 19 13:38:04 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.556	168	381179	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	668086	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	681437	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	306885	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	235280	47.339	ug/l	0.00
Spiked Amount 50.000	Range 61 - 141		Recovery =	94.680%		
35) Dibromofluoromethane	5.385	113	216863	46.286	ug/l	0.00
Spiked Amount 50.000	Range 69 - 133		Recovery =	92.580%		
50) Toluene-d8	8.653	98	810189	45.023	ug/l	0.00
Spiked Amount 50.000	Range 65 - 126		Recovery =	90.040%		
62) 4-Bromofluorobenzene	11.079	95	299917	43.589	ug/l	0.00
Spiked Amount 50.000	Range 58 - 135		Recovery =	87.180%		
Target Compounds						Qvalue
3) Chloromethane	1.295	50	313	Below Cal		95
5) Bromomethane	1.612	94	932	Below Cal		88
6) Chloroethane	1.666	64	267	Below Cal	#	86
10) Methyl Iodide	2.459	142	889	5.423	ug/l	98
11) Tert butyl alcohol	2.941	59	4071	Below Cal	#	76
16) Acetone	2.380	43	10885	5.807	ug/l	97
18) Methyl Acetate	2.697	43	1961	0.444	ug/l	# 88
20) Methylene Chloride	2.788	84	19607	5.317	ug/l	98
25) 2-Butanone	4.562	43	2149	0.730	ug/l	100
31) Cyclohexane	5.550	56	7223	1.193	ug/l	# 1
36) 1,1-Dichloropropene	5.550	75	27172	4.446	ug/l	# 50
38) Carbon Tetrachloride	5.556	117	38372	5.562	ug/l	# 16
43) Isopropyl Acetate	6.348	43	25830	2.559	ug/l	97
48) Methyl methacrylate	7.598	41	7284	1.572	ug/l	# 7
49) 1,4-Dioxane	7.799	88	360	2.904	ug/l	# 1
51) 4-Methyl-2-Pentanone	8.549	43	96388	14.883	ug/l	# 44
54) cis-1,3-Dichloropropene	8.549	75	52368	6.950	ug/l	# 67
57) 1,3-Dichloropropane	9.482	76	34004	4.172	ug/l	# 43
59) 2-Hexanone	9.482	43	373322	74.415	ug/l	# 45
74) N-amyl acetate	10.640	43	17841	2.447	ug/l	# 47
76) 1,2,3-Trichloropropane	11.079	75	150601	24.935	ug/l	# 38
80) 1,3,5-Trimethylbenzene	11.451	105	7999	0.447	ug/l	97
81) trans-1,4-Dichloro-2-b...	11.079	75	150601	74.101	ug/l	# 15

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

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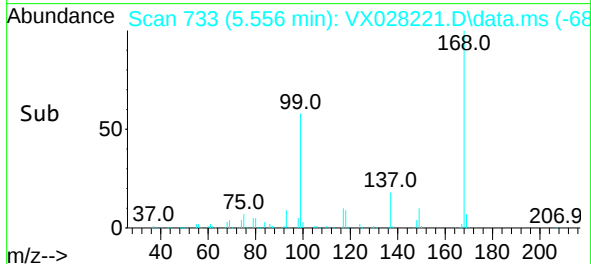
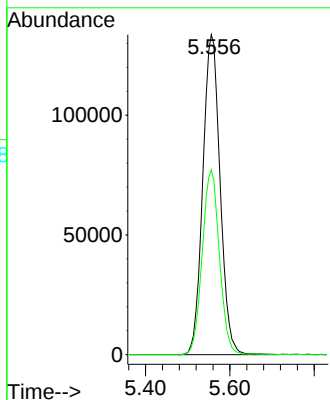
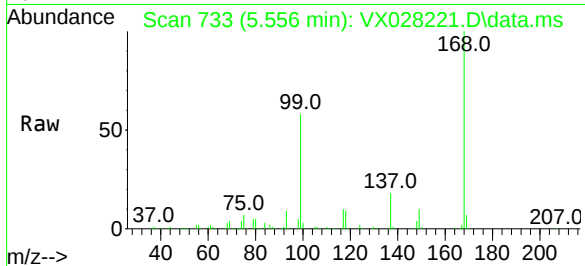




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

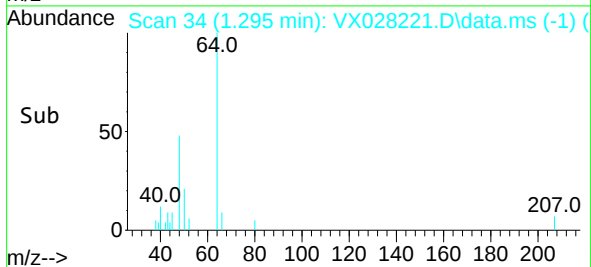
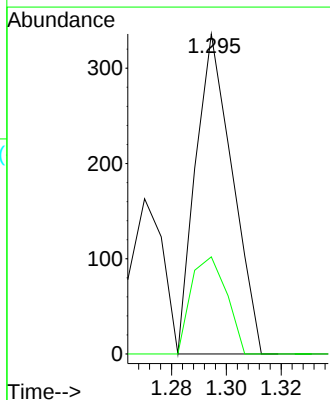
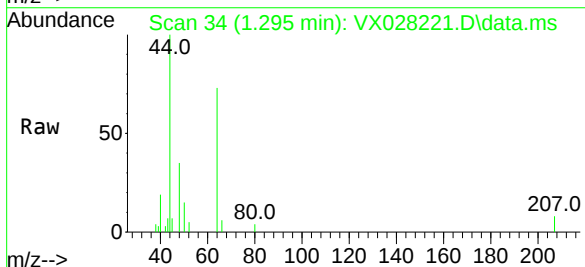
Instrument :
MSVOA_X
ClientSampleId :
PB144231ZHE#03

Tgt Ion:168 Resp: 381179
Ion Ratio Lower Upper
168 100
99 57.8 41.7 62.5



#3
Chloromethane
Concen: Below Cal
RT: 1.295 min Scan# 34
Delta R.T. 0.001 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

Tgt Ion: 50 Resp: 313
Ion Ratio Lower Upper
50 100
52 30.4 26.4 39.6

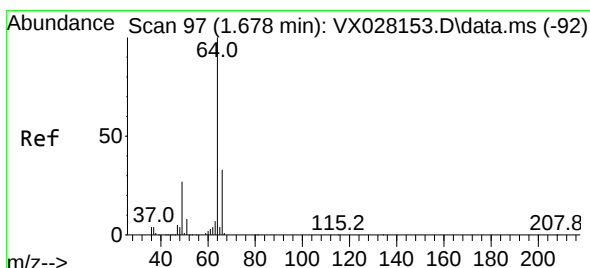
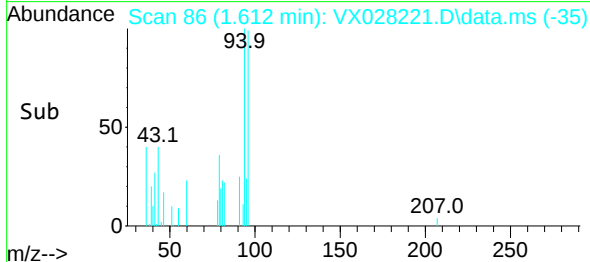
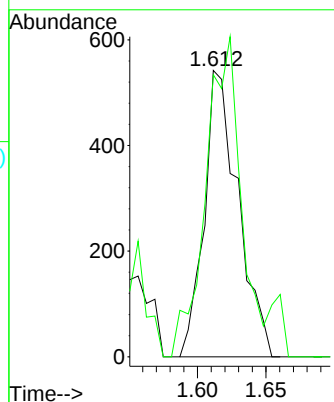
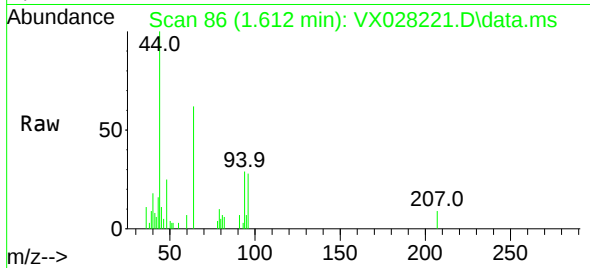




#5
Bromomethane
Concen: Below Cal
RT: 1.612 min Scan# 80
Delta R.T. 0.013 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

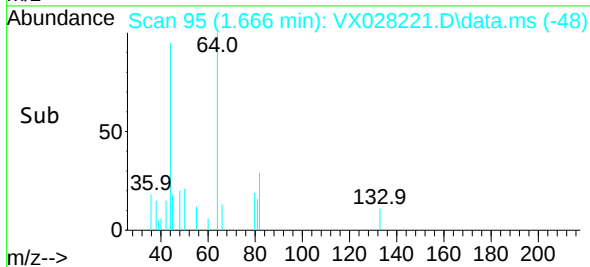
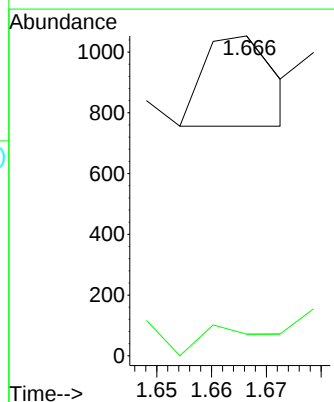
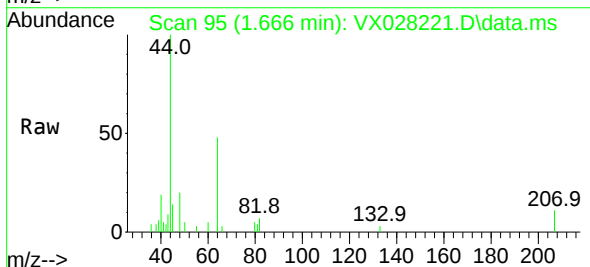
Instrument :
MSVOA_X
ClientSampleId :
PB144231ZHE#03

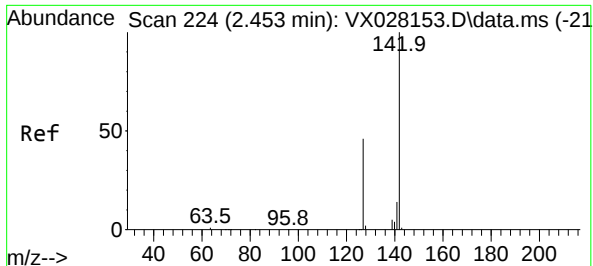
Tgt Ion: 94 Resp: 932
Ion Ratio Lower Upper
94 100
96 82.3 75.3 112.9



#6
Chloroethane
Concen: Below Cal
RT: 1.666 min Scan# 95
Delta R.T. -0.012 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

Tgt Ion: 64 Resp: 267
Ion Ratio Lower Upper
64 100
66 23.9 25.3 37.9#

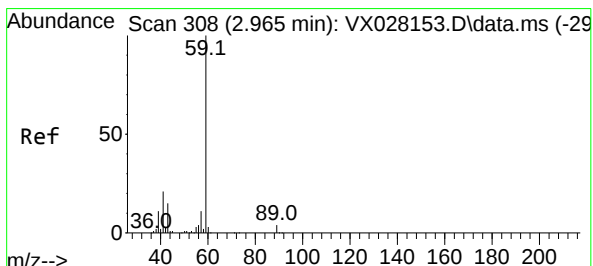
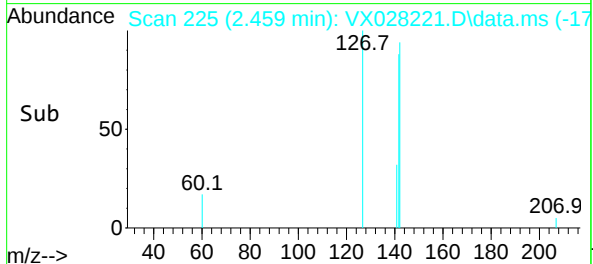
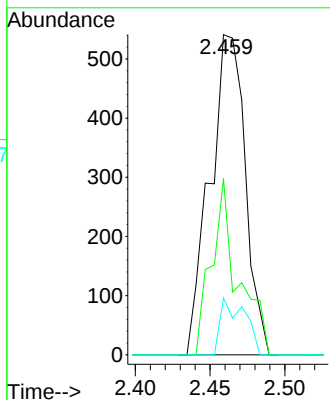
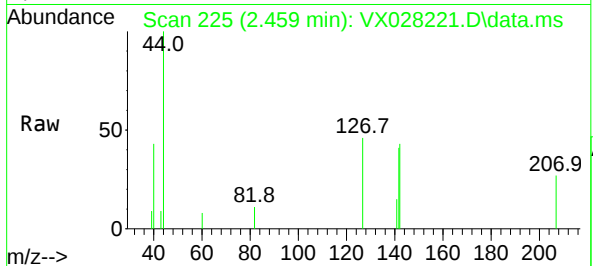




#10
Methyl Iodide
Concen: 5.423 ug/l
RT: 2.459 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

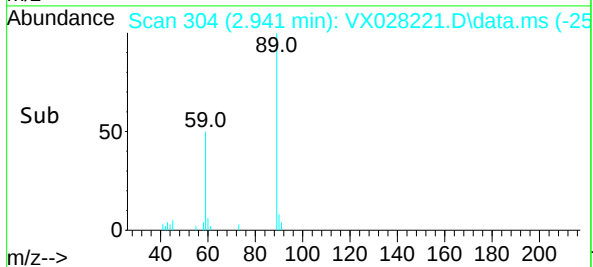
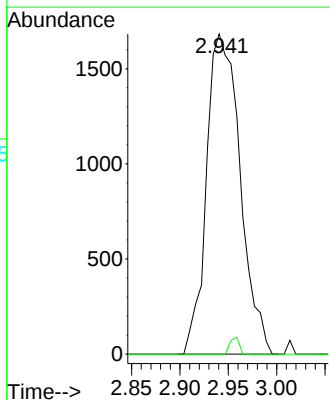
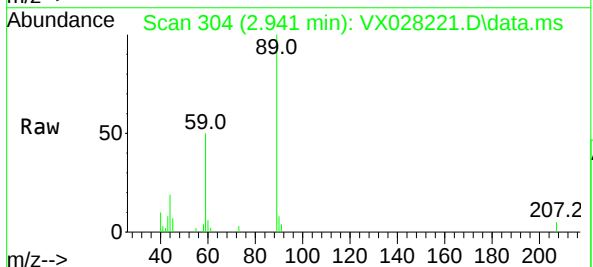
Instrument :
MSVOA_X
ClientSampleId :
PB144231ZHE#03

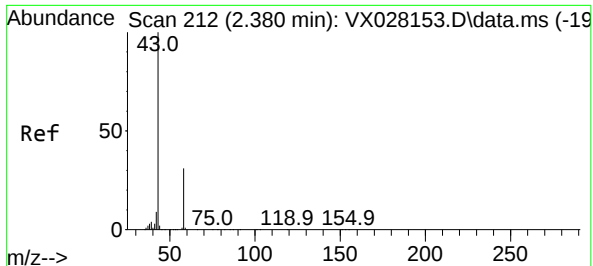
Tgt Ion:142 Resp: 889
Ion Ratio Lower Upper
142 100
127 41.5 33.9 50.9
141 12.1 11.4 17.2



#11
Tert butyl alcohol
Concen: Below Cal
RT: 2.941 min Scan# 304
Delta R.T. -0.024 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

Tgt Ion: 59 Resp: 4071
Ion Ratio Lower Upper
59 100
57 1.4 8.3 12.5#

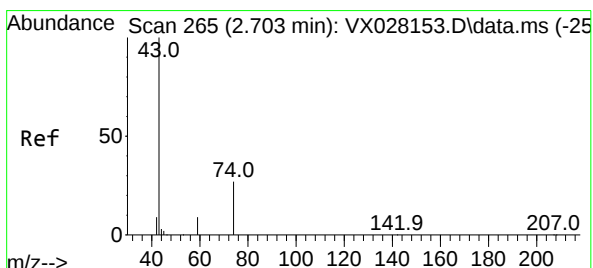
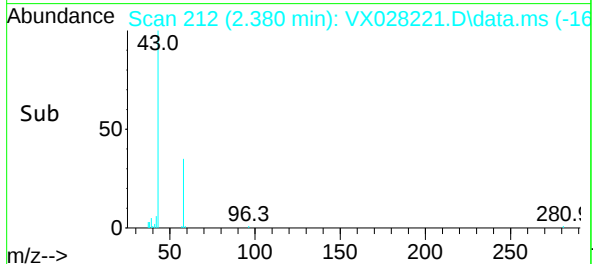
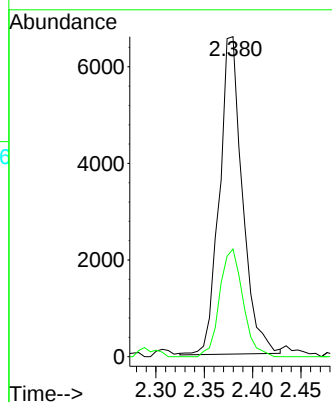
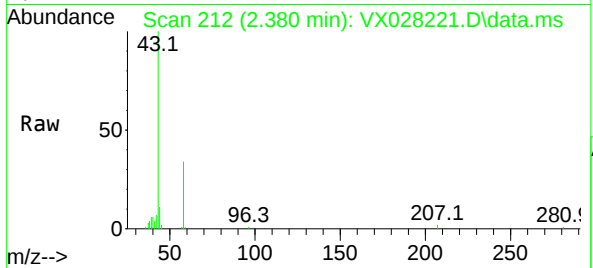




#16
Acetone
Concen: 5.807 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

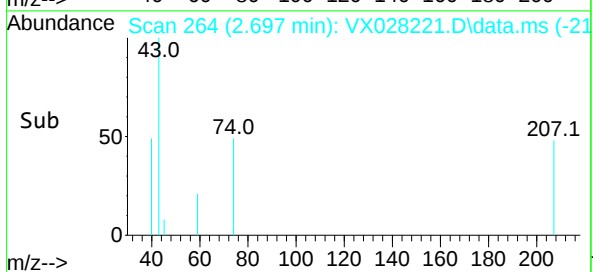
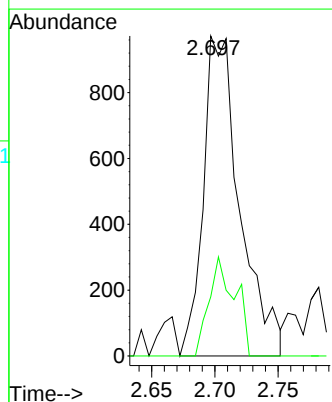
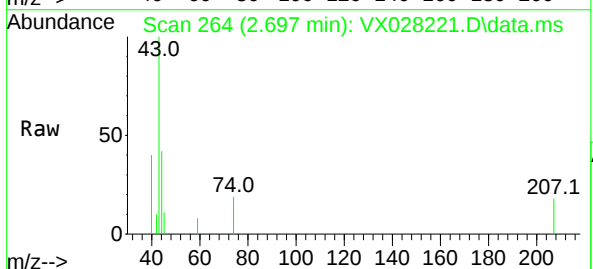
Instrument :
MSVOA_X
ClientSampleId :
PB144231ZHE#03

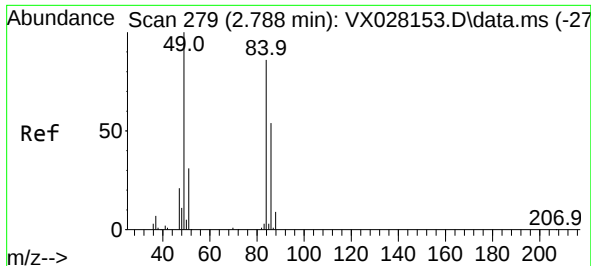
Tgt Ion: 43 Resp: 10885
Ion Ratio Lower Upper
43 100
58 34.0 28.8 43.2



#18
Methyl Acetate
Concen: 0.444 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

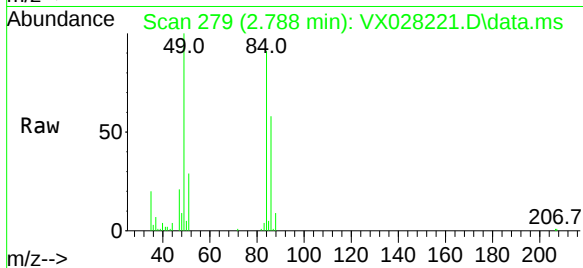
Tgt Ion: 43 Resp: 1961
Ion Ratio Lower Upper
43 100
74 22.0 22.8 34.2#





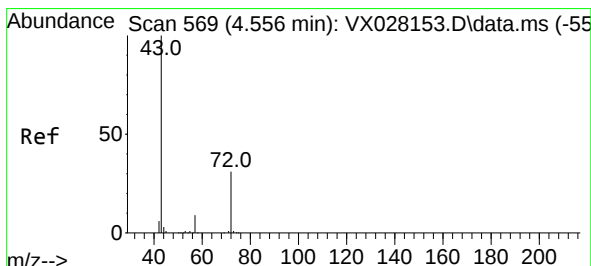
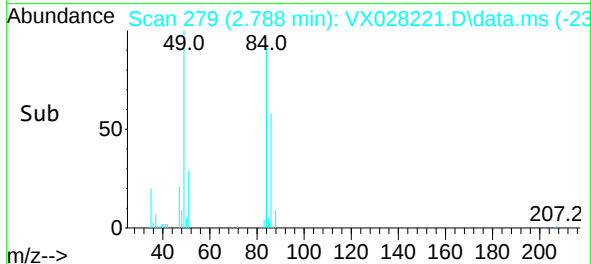
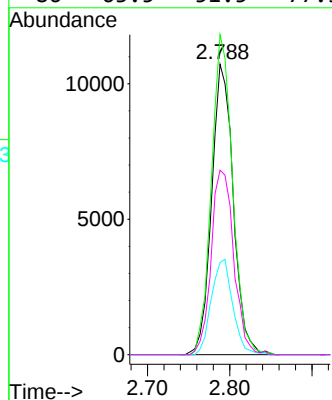
#20
Methylene Chloride
Concen: 5.317 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

Instrument :
MSVOA_X
ClientSampleId :
PB144231ZHE#03



Tgt Ion: 84 Resp: 19607

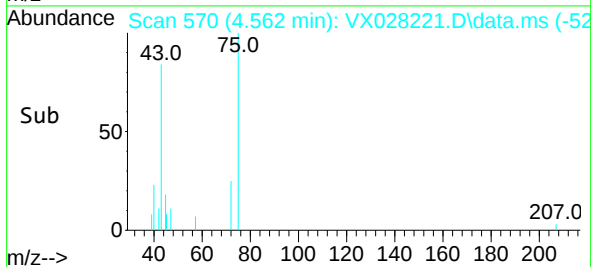
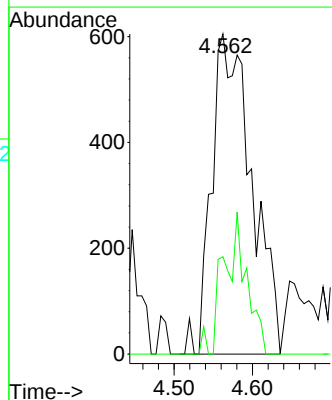
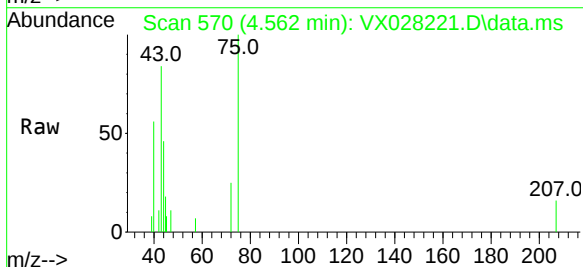
Ion	Ratio	Lower	Upper
84	100		
49	110.2	85.5	128.3
51	31.7	26.6	39.8
86	63.5	51.5	77.3

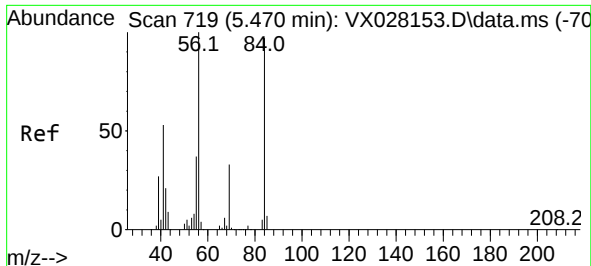


#25
2-Butanone
Concen: 0.730 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

Tgt Ion: 43 Resp: 2149

Ion	Ratio	Lower	Upper
43	100		
72	30.4	24.4	36.6

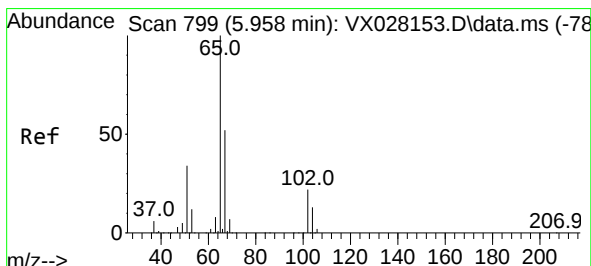
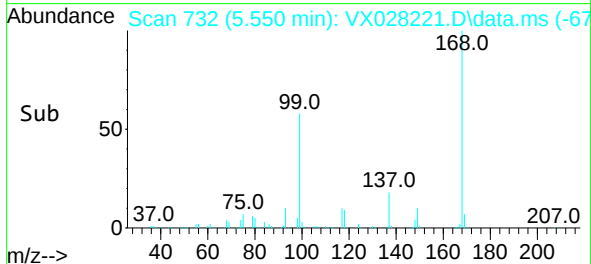
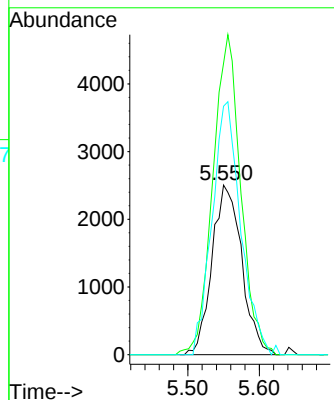
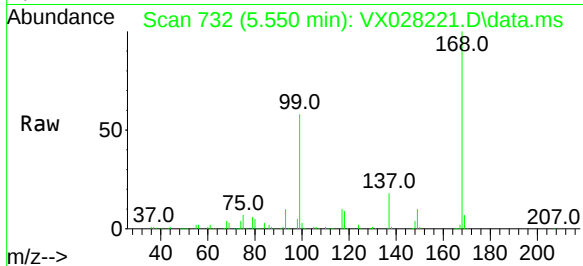




#31
Cyclohexane
Concen: 1.193 ug/l
RT: 5.550 min Scan# 719
Delta R.T. 0.080 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

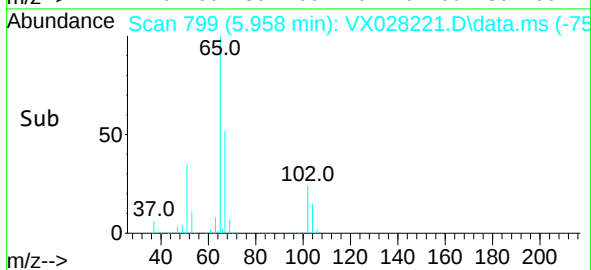
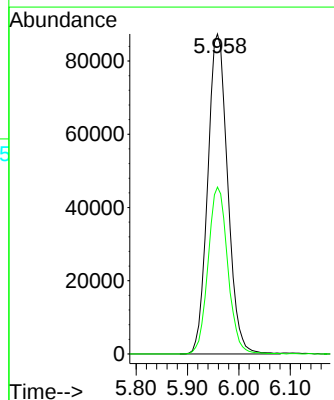
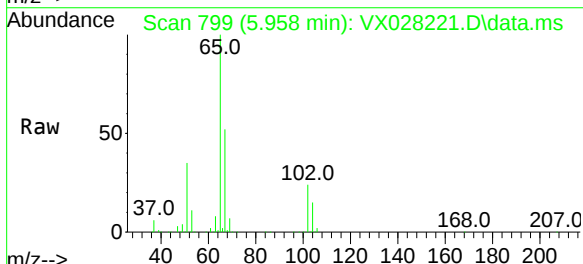
Instrument :
MSVOA_X
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PB144231ZHE#03

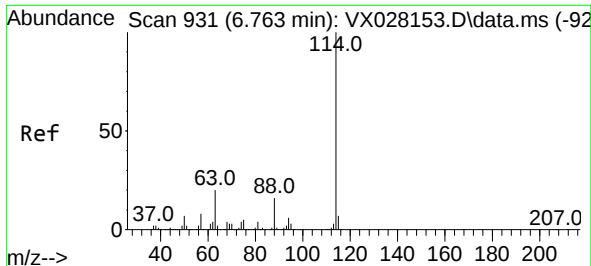
Tgt Ion: 56 Resp: 7223
Ion Ratio Lower Upper
56 100
69 171.9 26.7 40.1#
84 146.5 77.2 115.8#



#33
1,2-Dichloroethane-d4
Concen: 47.339 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

Tgt Ion: 65 Resp: 235280
Ion Ratio Lower Upper
65 100
67 51.5 0.0 107.4

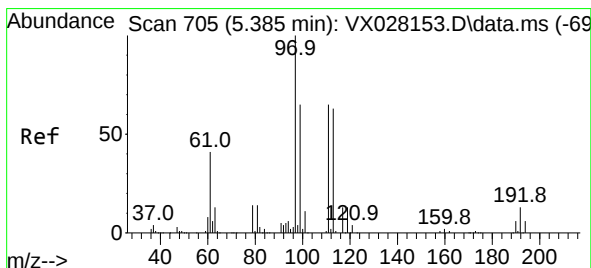
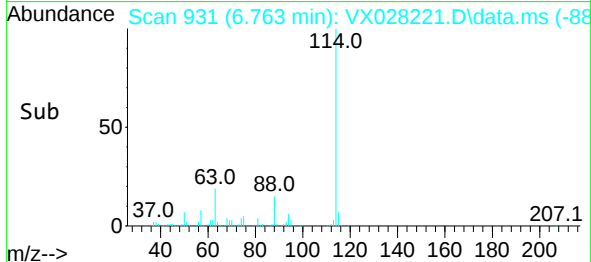
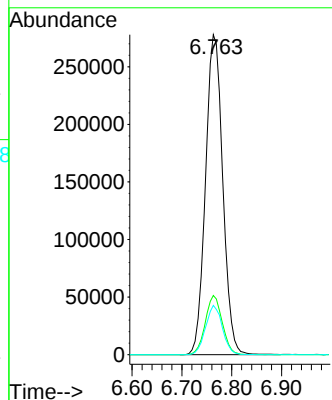
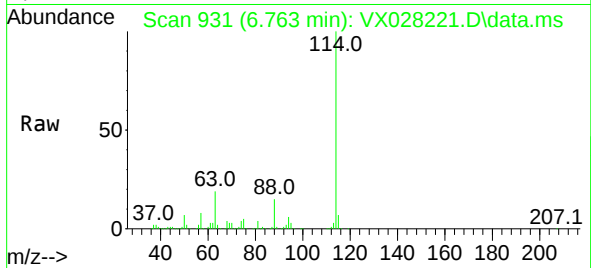




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.000 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

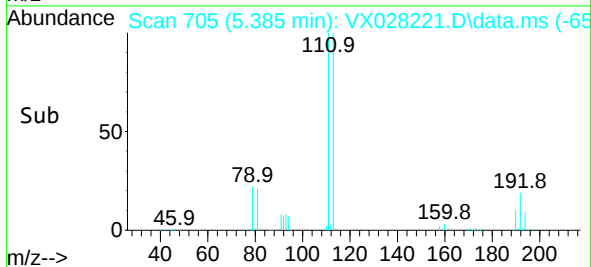
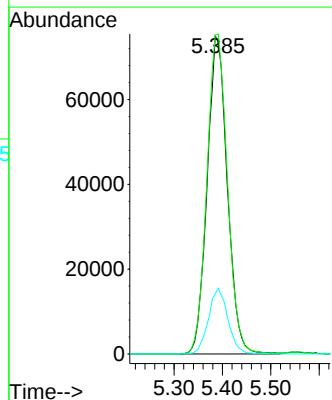
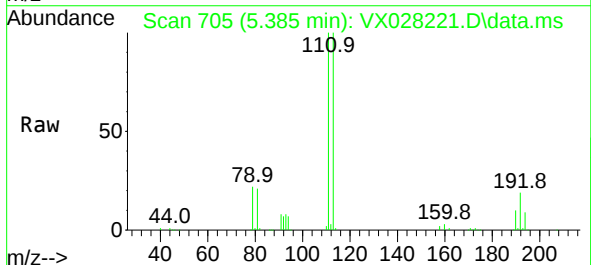
Instrument :
MSVOA_X
ClientSampleId :
PB144231ZHE#03

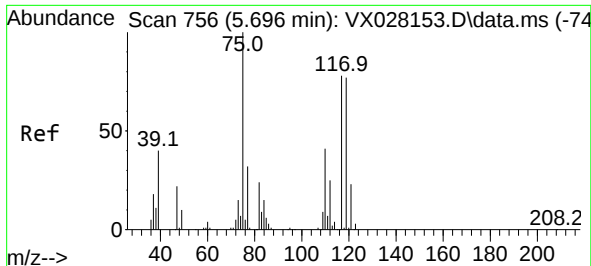
Tgt Ion:114 Resp: 668086
Ion Ratio Lower Upper
114 100
63 18.5 0.0 36.8
88 15.4 0.0 32.4



#35
Dibromofluoromethane
Concen: 46.286 ug/l
RT: 5.385 min Scan# 705
Delta R.T. 0.000 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

Tgt Ion:113 Resp: 216863
Ion Ratio Lower Upper
113 100
111 102.8 82.8 124.2
192 19.9 16.9 25.3

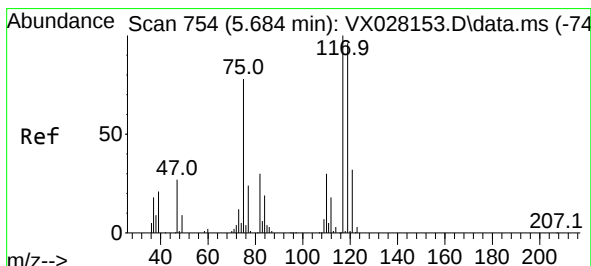
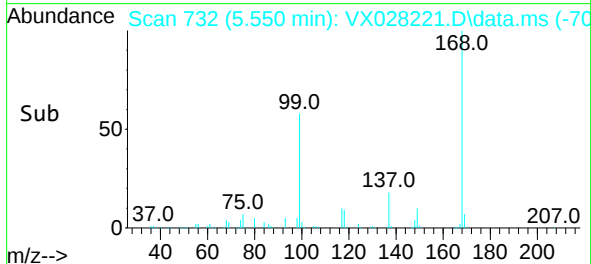
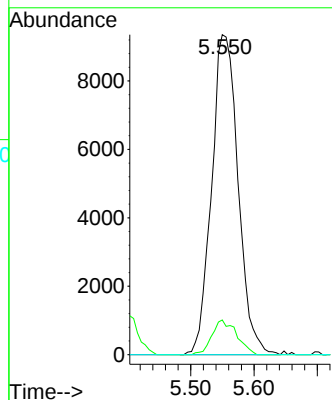
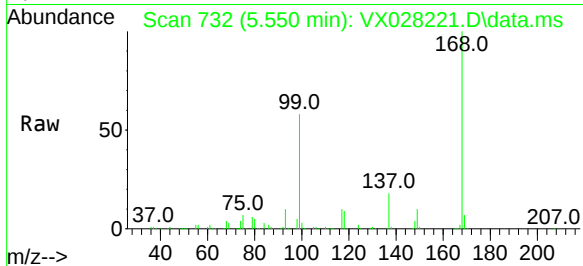




#36
1,1-Dichloropropene
Concen: 4.446 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

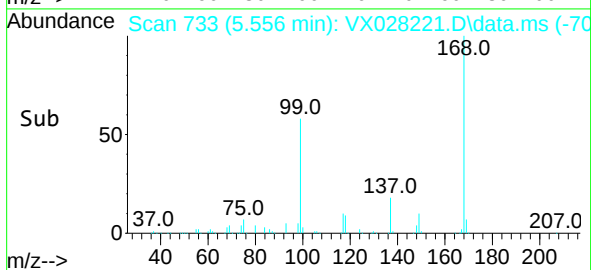
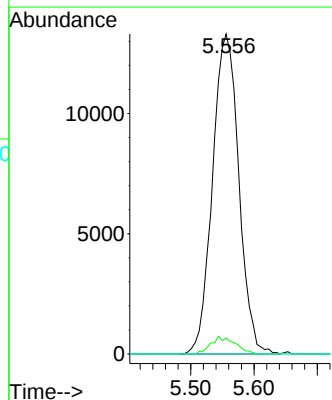
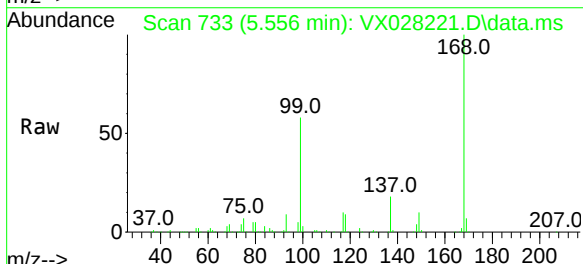
Instrument :
MSVOA_X
ClientSampleId :
PB144231ZHE#03

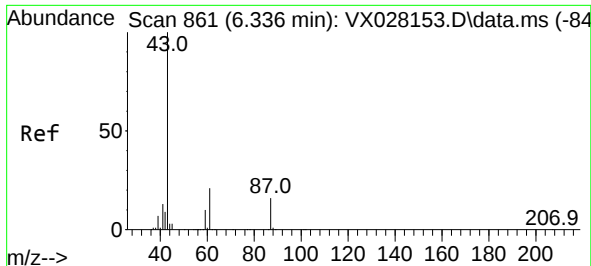
Tgt Ion: 75 Resp: 27172
Ion Ratio Lower Upper
75 100
110 10.1 18.3 54.8#
77 0.0 24.8 37.2#



#38
Carbon Tetrachloride
Concen: 5.562 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.128 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

Tgt Ion: 117 Resp: 38372
Ion Ratio Lower Upper
117 100
119 5.0 77.3 115.9#
121 0.0 24.2 36.2#

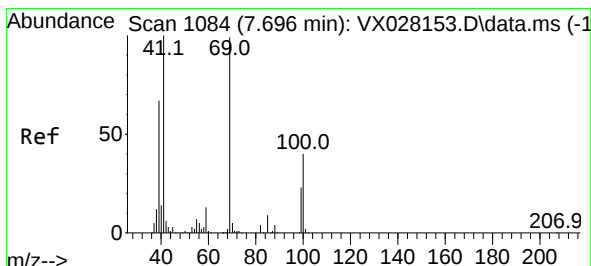
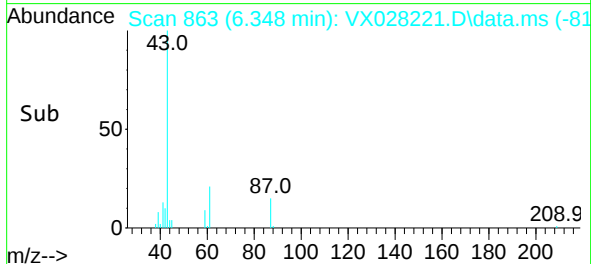
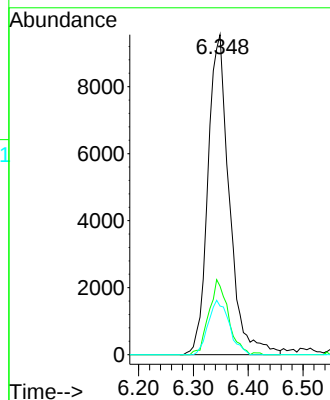
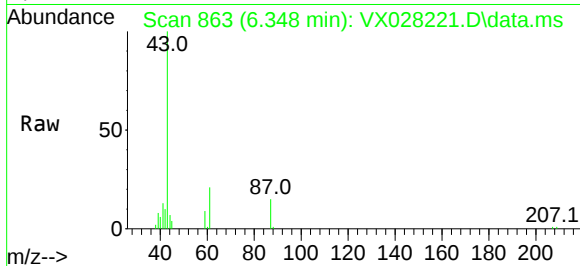




#43
Isopropyl Acetate
Concen: 2.559 ug/l
RT: 6.348 min Scan# 80
Delta R.T. 0.012 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

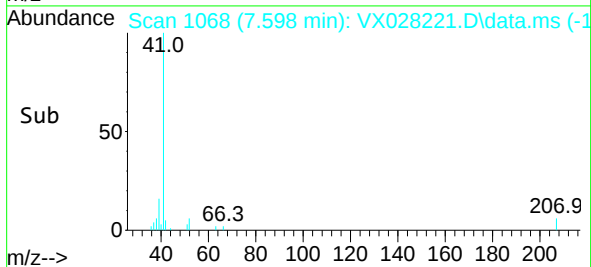
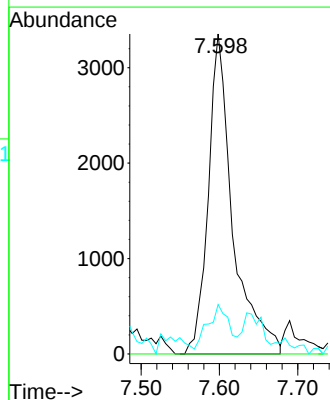
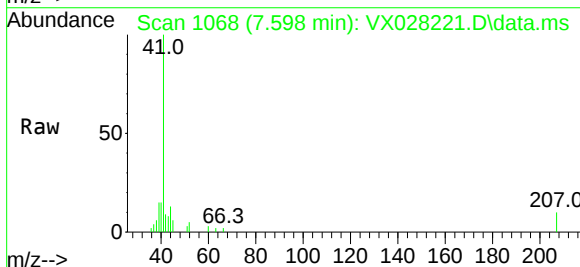
Instrument :
MSVOA_X
ClientSampleId :
PB144231ZHE#03

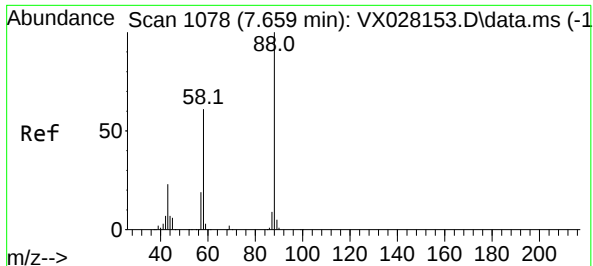
Tgt Ion: 43 Resp: 25830
Ion Ratio Lower Upper
43 100
61 21.2 18.5 27.7
87 16.7 13.0 19.6



#48
Methyl methacrylate
Concen: 1.572 ug/l
RT: 7.598 min Scan# 1068
Delta R.T. -0.098 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

Tgt Ion: 41 Resp: 7284
Ion Ratio Lower Upper
41 100
69 0.0 82.5 123.7#
39 0.0 43.8 65.8#





#49

1,4-Dioxane

Concen: 2.904 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.140 min

Lab File: VX028221.D

Acq: 21 Apr 2022 01:29

Instrument :

MSVOA_X

ClientSampleId :

PB144231ZHE#03

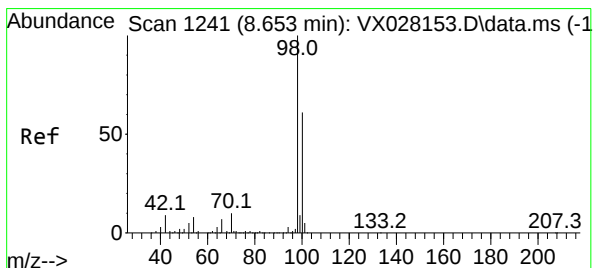
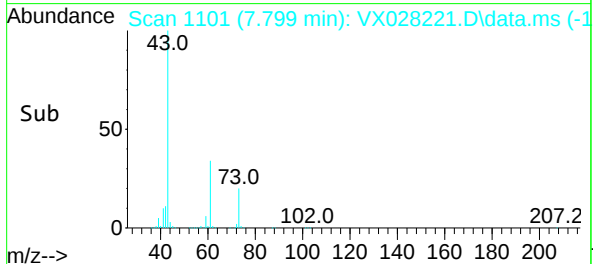
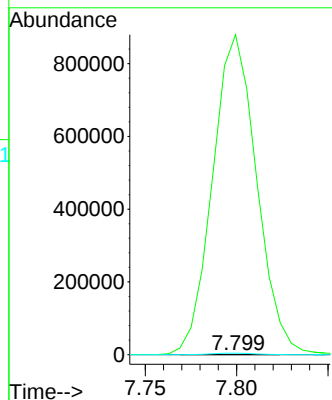
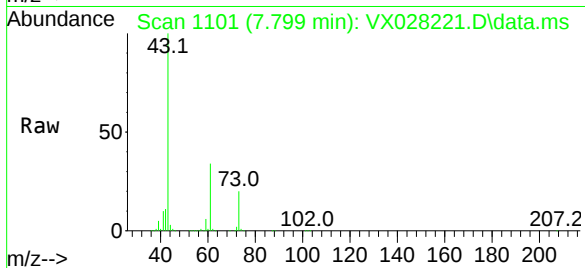
Tgt Ion: 88 Resp: 360

Ion Ratio Lower Upper

88 100

43 413722.5 21.9 32.9#

58 1923.6 53.7 80.5#



#50

Toluene-d8

Concen: 45.023 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX028221.D

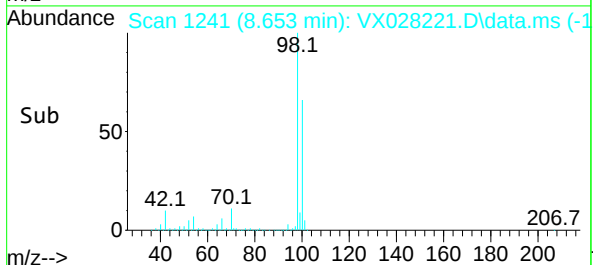
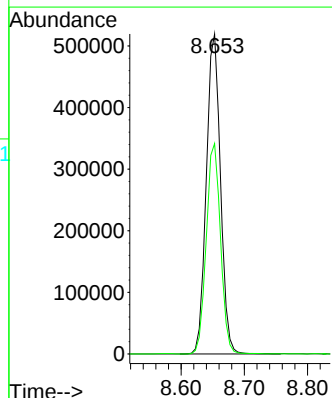
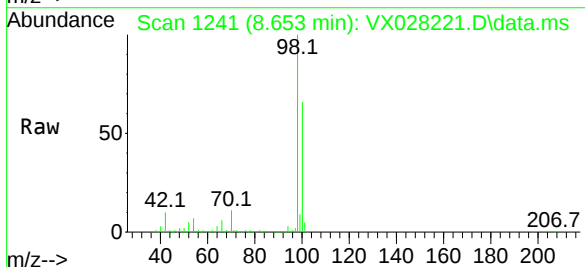
Acq: 21 Apr 2022 01:29

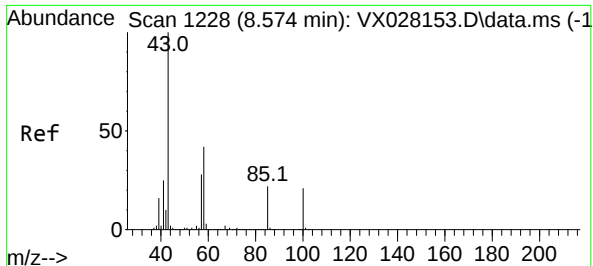
Tgt Ion: 98 Resp: 810189

Ion Ratio Lower Upper

98 100

100 66.3 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 14.883 ug/l

RT: 8.549 min Scan# 11

Delta R.T. -0.025 min

Lab File: VX028221.D

Acq: 21 Apr 2022 01:29

Instrument :

MSVOA_X

ClientSampleId :

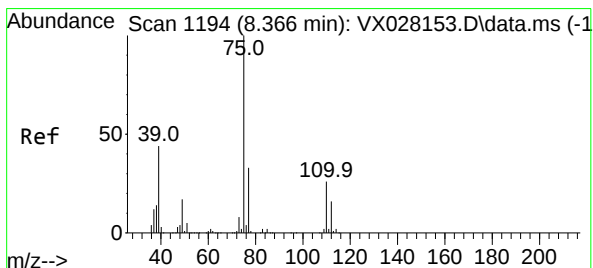
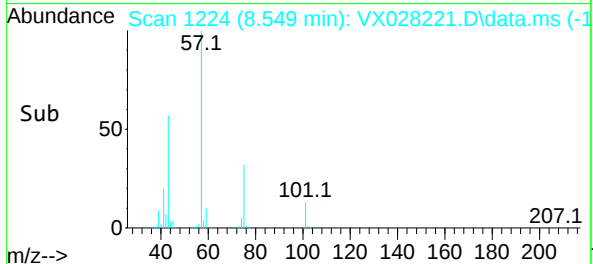
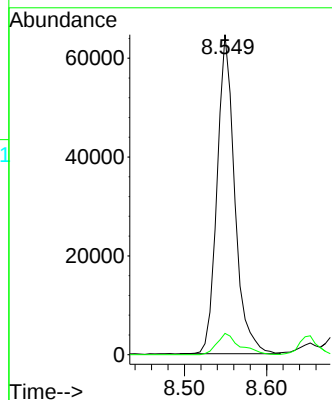
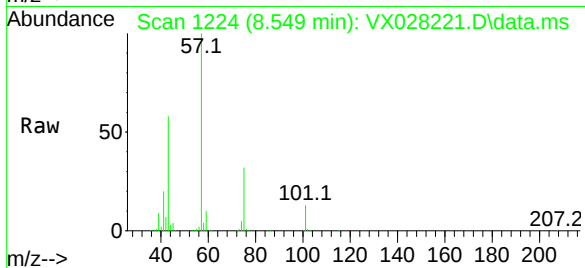
PB144231ZHE#03

Tgt Ion: 43 Resp: 96388

Ion Ratio Lower Upper

43 100

58 8.5 36.1 54.1#



#54

cis-1,3-Dichloropropene

Concen: 6.950 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX028221.D

Acq: 21 Apr 2022 01:29

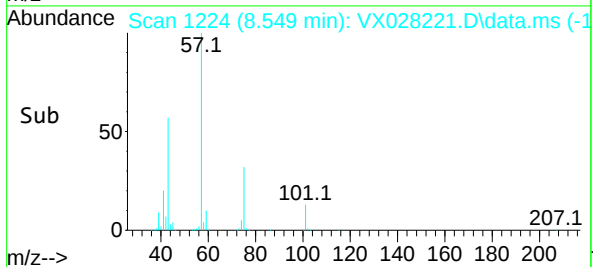
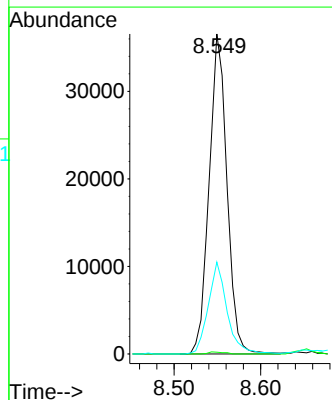
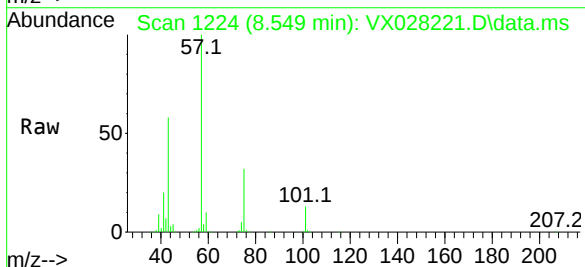
Tgt Ion: 75 Resp: 52368

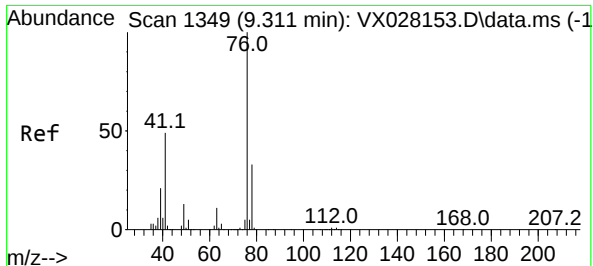
Ion Ratio Lower Upper

75 100

77 0.5 24.8 37.2#

39 28.7 29.6 44.4#

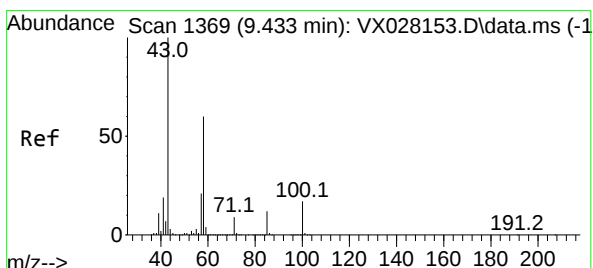
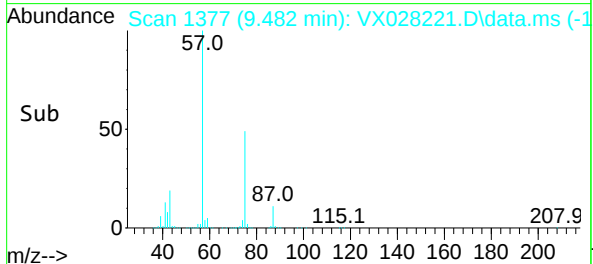
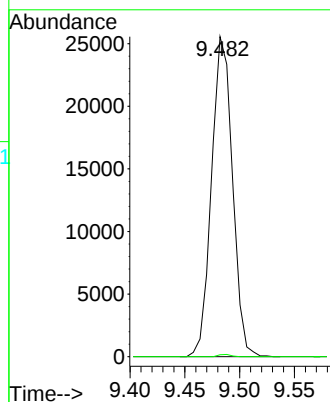
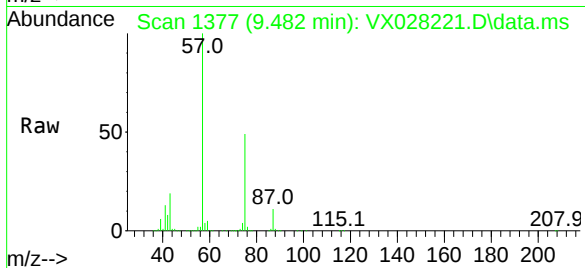




#57
1,3-Dichloropropane
Concen: 4.172 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.171 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

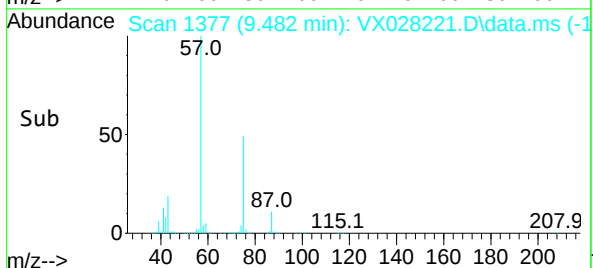
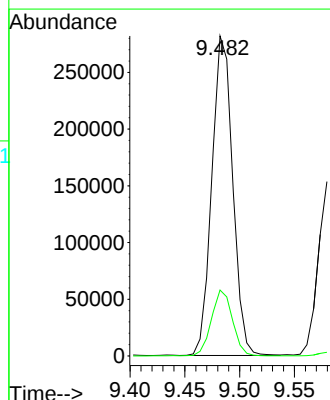
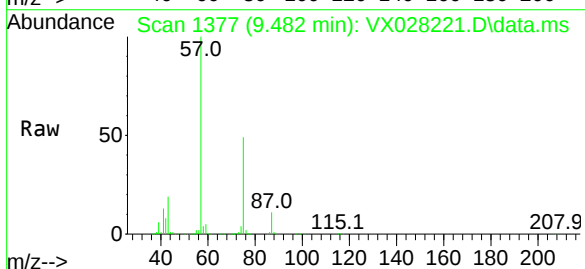
Instrument :
MSVOA_X
ClientSampleId :
PB144231ZHE#03

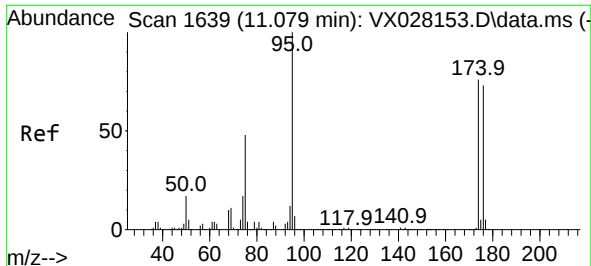
Tgt Ion: 76 Resp: 34004
Ion Ratio Lower Upper
76 100
78 0.4 25.8 38.8#



#59
2-Hexanone
Concen: 74.415 ug/l
RT: 9.482 min Scan# 1377
Delta R.T. 0.049 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

Tgt Ion: 43 Resp: 373322
Ion Ratio Lower Upper
43 100
58 20.9 31.9 95.7#

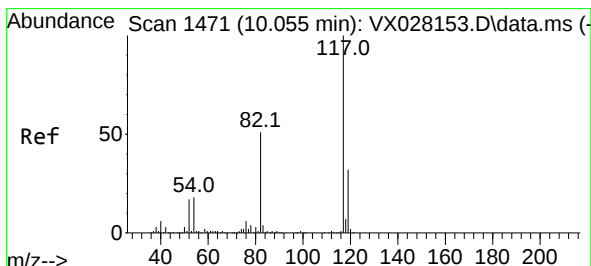
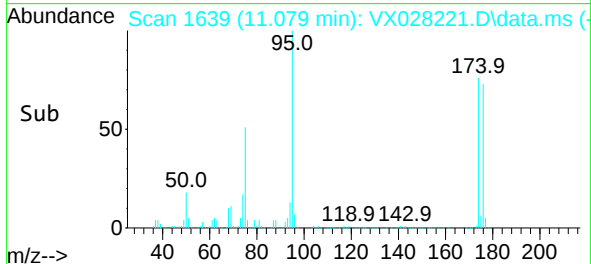
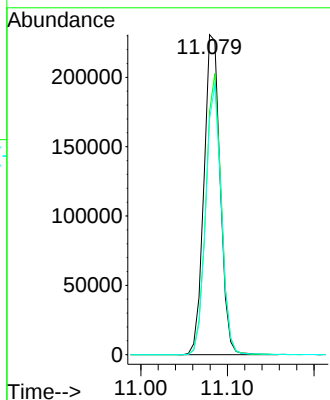
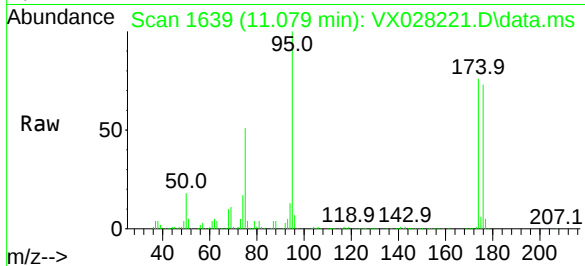




#62
4-Bromofluorobenzene
Concen: 43.589 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

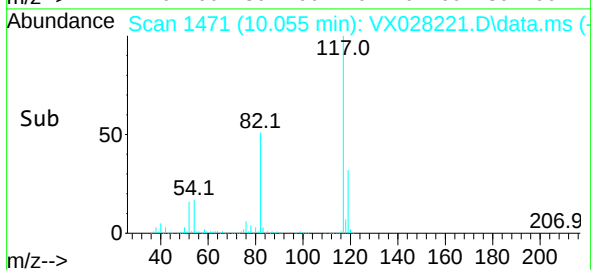
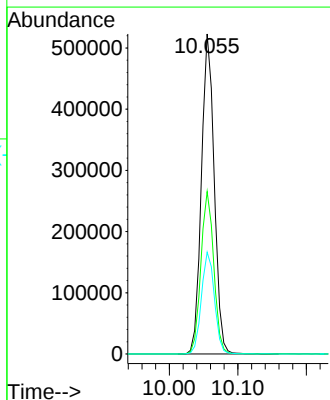
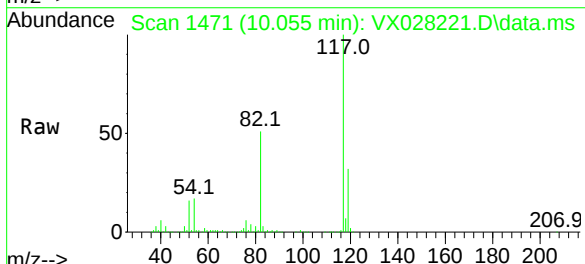
Instrument :
MSVOA_X
ClientSampleId :
PB144231ZHE#03

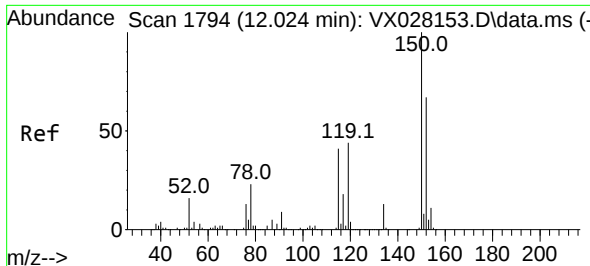
Tgt Ion: 95 Resp: 299917
Ion Ratio Lower Upper
95 100
174 84.0 0.0 163.0
176 81.3 0.0 155.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

Tgt Ion: 117 Resp: 681437
Ion Ratio Lower Upper
117 100
82 50.7 41.8 62.8
119 31.8 24.8 37.2

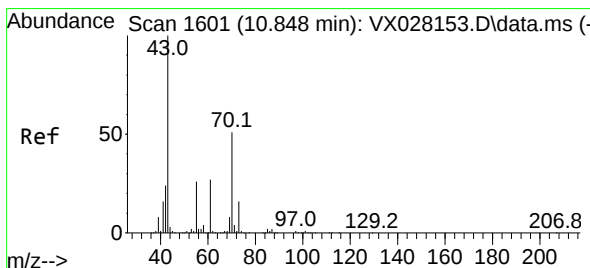
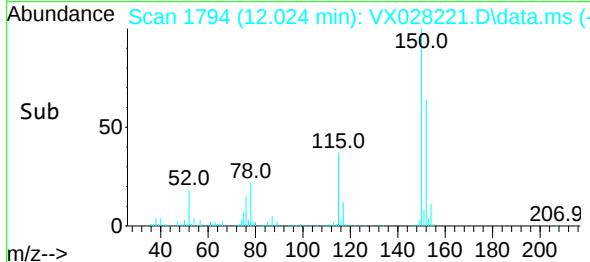
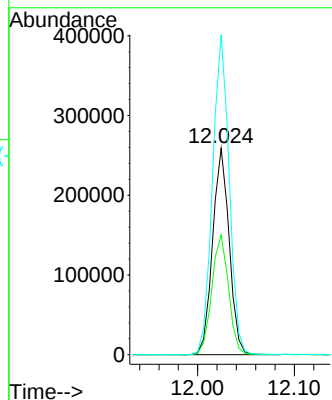
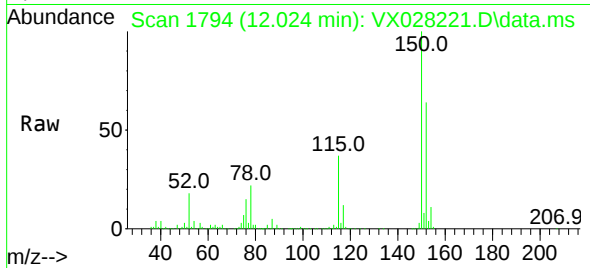




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

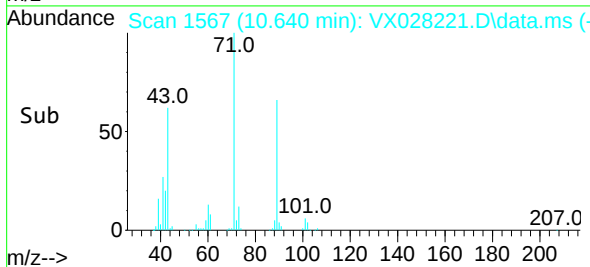
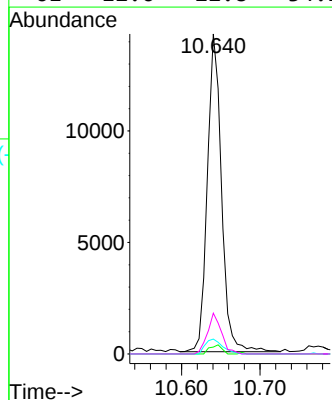
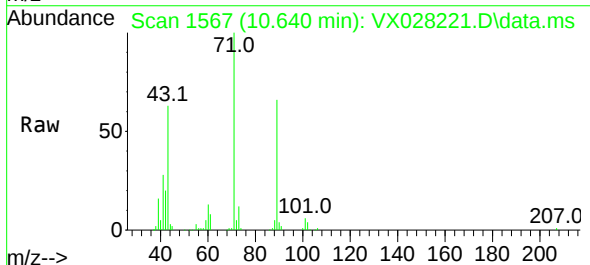
Instrument :
MSVOA_X
ClientSampleId :
PB144231ZHE#03

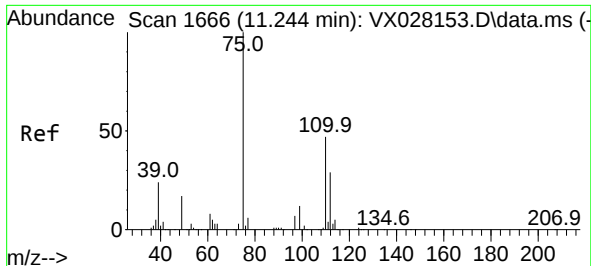
Tgt Ion:152 Resp: 306885
Ion Ratio Lower Upper
152 100
115 58.8 37.5 112.7
150 156.1 0.0 338.2



#74
N-ethyl acetate
Concen: 2.447 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.208 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

Tgt Ion: 43 Resp: 17841
Ion Ratio Lower Upper
43 100
70 2.4 42.5 63.7#
55 5.7 23.1 34.7#
61 12.6 22.8 34.2#

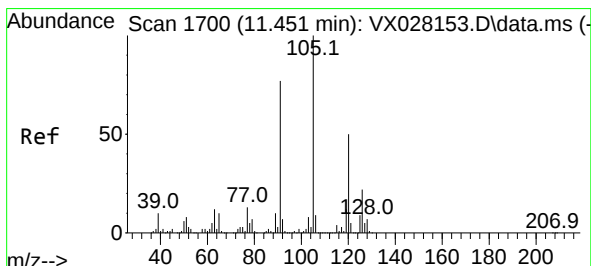
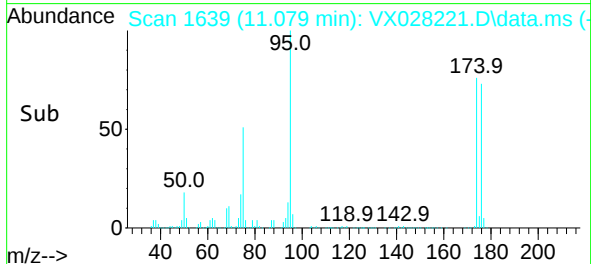
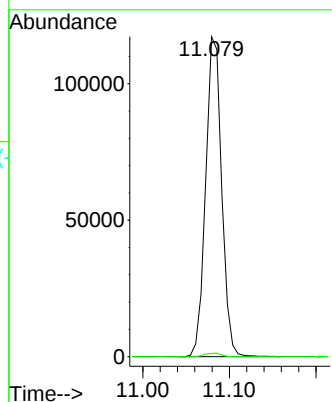
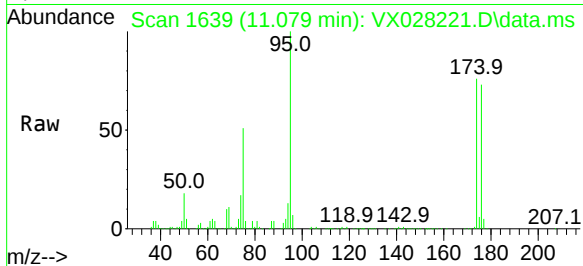




#76
1,2,3-Trichloropropane
Concen: 24.935 ug/l
RT: 11.079 min Scan# 11
Delta R.T. -0.165 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

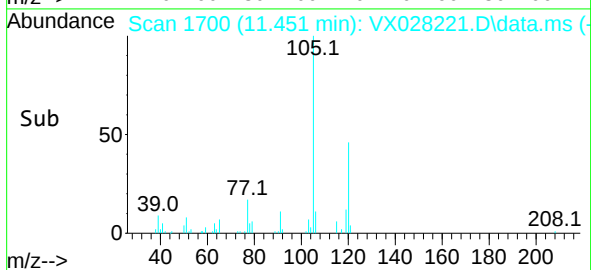
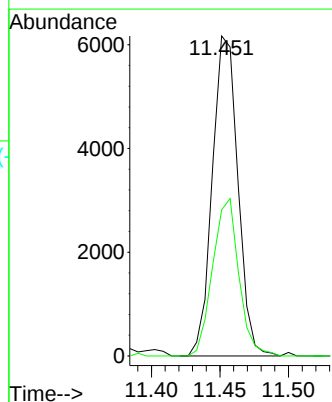
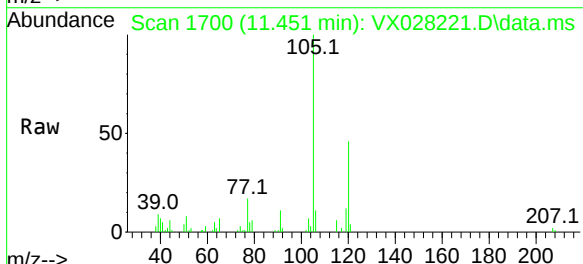
Instrument :
MSVOA_X
ClientSampleId :
PB144231ZHE#03

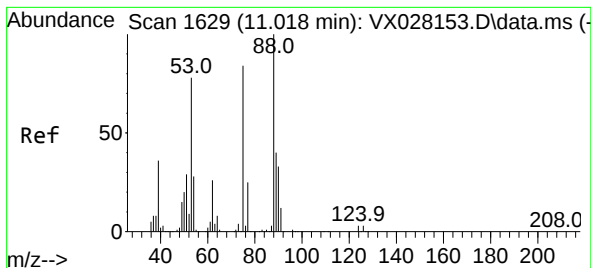
Tgt Ion: 75 Resp: 150601
Ion Ratio Lower Upper
75 100
77 1.1 19.4 58.2#



#80
1,3,5-Trimethylbenzene
Concen: 0.447 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX028221.D
Acq: 21 Apr 2022 01:29

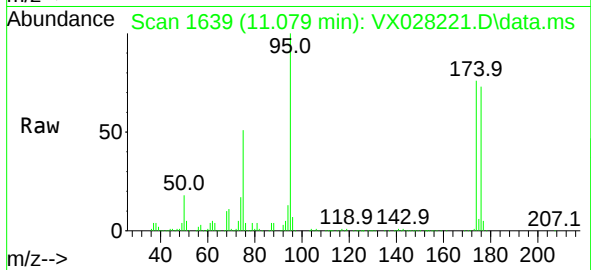
Tgt Ion: 105 Resp: 7999
Ion Ratio Lower Upper
105 100
120 50.3 24.3 72.9





#81
 trans-1,4-Dichloro-2-butene
 Concen: 74.101 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX028221.D
 Acq: 21 Apr 2022 01:29

Instrument :
 MSVOA_X
 ClientSampleId :
 PB144231ZHE#03



Tgt Ion: 75 Resp: 150601
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.0 103.4#
 89 0.1 37.0 55.6#

