

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052324\
 Data File : VX041630.D
 Acq On : 23 May 2024 15:45
 Operator : JC/MD
 Sample : P2567-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 24 06:44:47 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

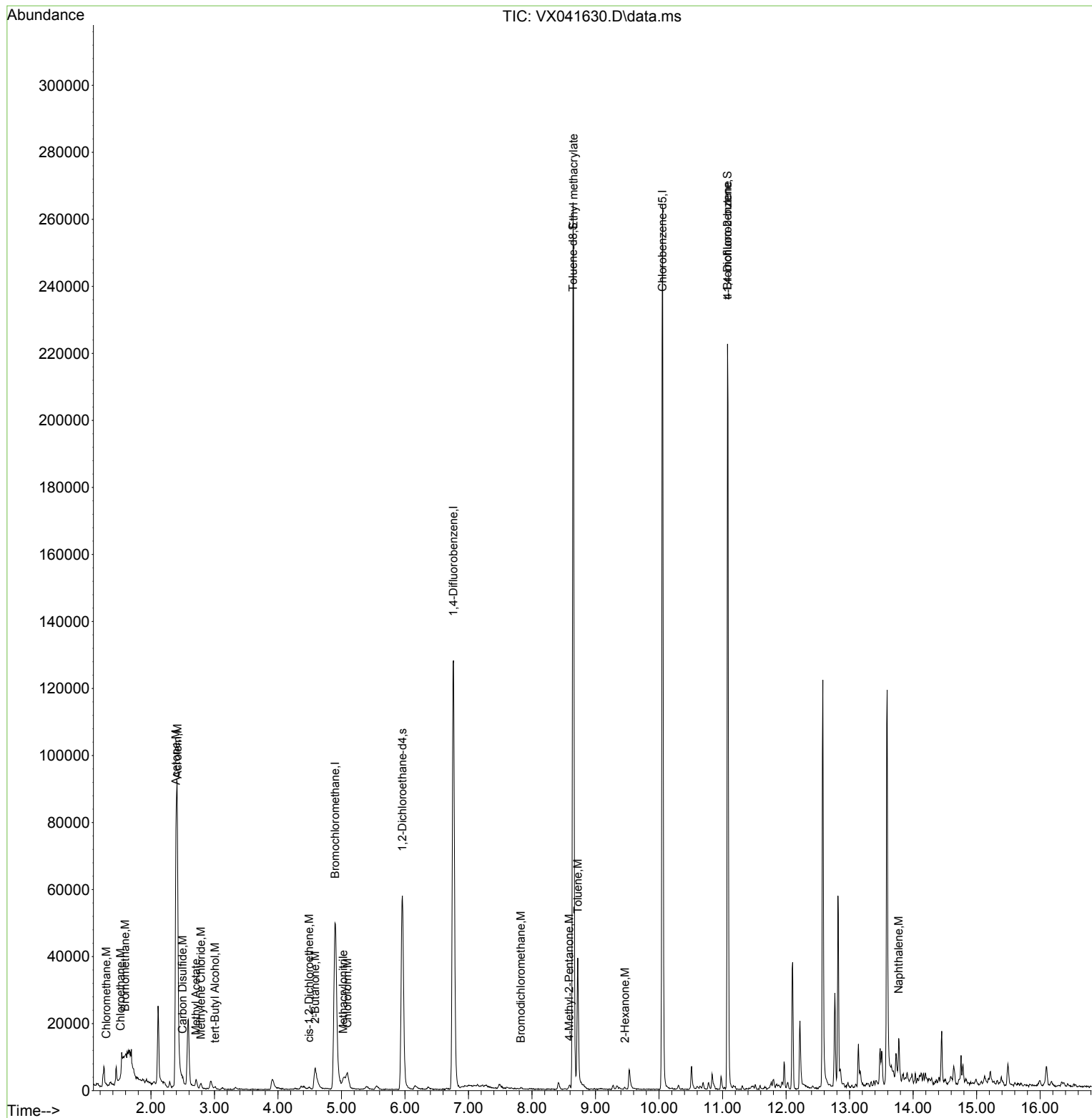
Internal Standards						
1) Bromochloromethane	4.898	128	13404	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	138719	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	121996	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	58790	55.696	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 185.667%#			
60) 4-Bromofluorobenzene	11.079	95	55834	29.318	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.733%			
63) Toluene-d8	8.647	98	158186	30.249	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.833%			
Target Compounds					Qvalue	
3) Chloromethane	1.295	50	215	0.280	ug/l #	42
5) Bromomethane	1.593	94	224	0.436	ug/l #	70
6) Chloroethane	1.520	64	130	0.318	ug/l	91
12) Methyl Acetate	2.709	43	2851	2.760	ug/l	93
13) Acrolein	2.416	56	225	1.789	ug/l #	46
15) Acetone	2.392	58	25909	212.949	ug/l	99
16) Carbon Disulfide	2.496	76	694	0.448	ug/l #	74
18) Methylene Chloride	2.788	84	718	0.880	ug/l #	63
22) cis-1,2-Dichloroethene	4.489	96	202	0.211	ug/l #	74
23) tert-Butyl Alcohol	3.008	59	856	4.442	ug/l #	100
25) Chloroform	5.093	83	3892	2.546	ug/l	96
30) 2-Butanone	4.587	43	12588	10.335	ug/l #	96
35) Methacrylonitrile	5.026	41	773	0.629	ug/l #	44
41) Bromodichloromethane	7.824	83	427	0.211	ug/l #	75
51) Ethyl methacrylate	8.653	69	543	0.225	ug/l	100
58) 4-Methyl-2-Pentanone	8.586	43	739	0.332	ug/l #	75
59) 2-Hexanone	9.464	43	585	0.329	ug/l #	69
62) Toluene	8.720	91	25081	4.132	ug/l	98
77) t-1,4-Dichloro-2-butene	11.079	75	28314	43.370	ug/l #	1
91) Naphthalene	13.774	128	8499	1.174	ug/l	97

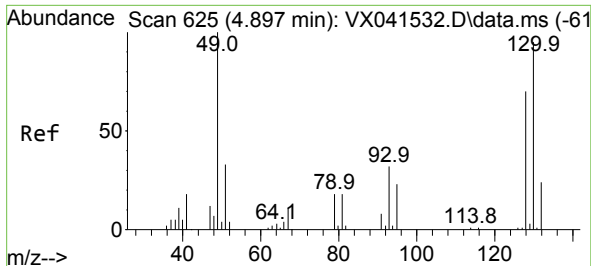
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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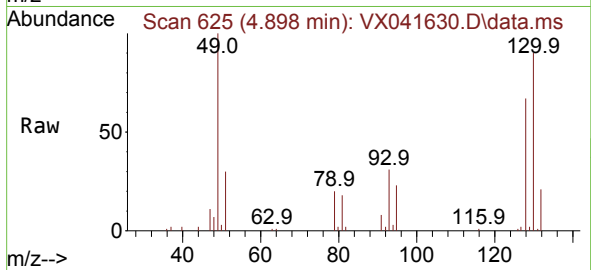
Quant Time: May 24 06:44:47 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 16 05:13:13 2024
Response via : Initial Calibration



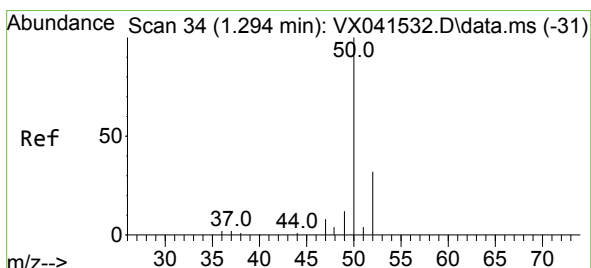
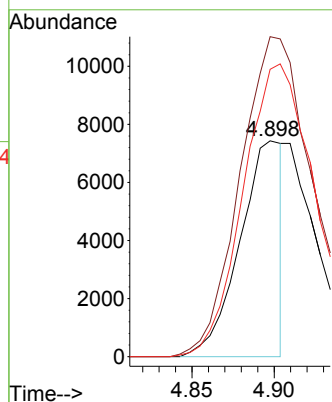
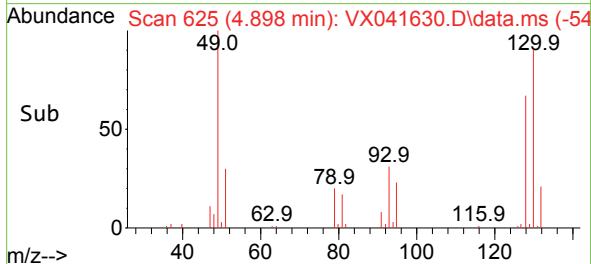


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. 0.001 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Instrument :
MSVOA_X
ClientSampleId :

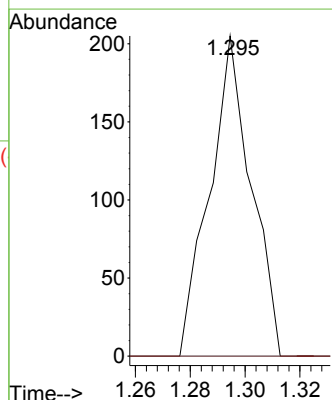
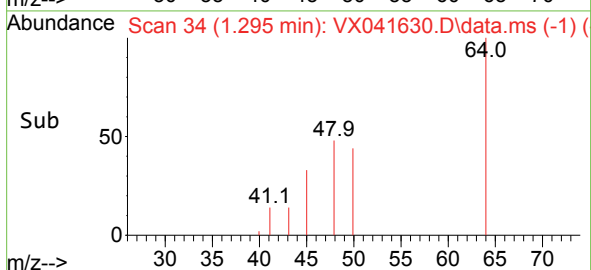
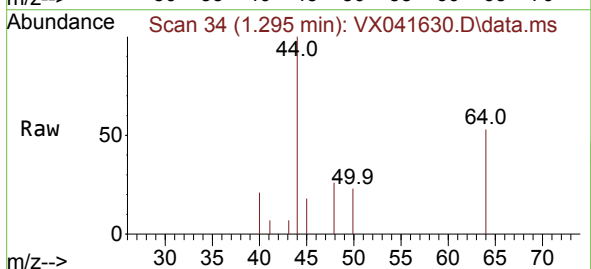


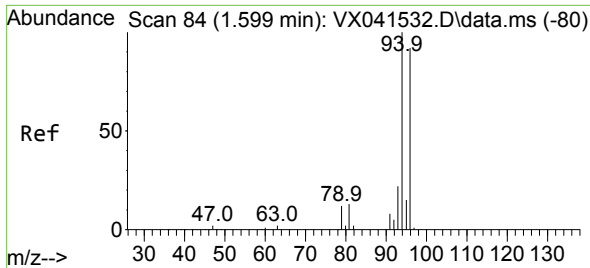
Tgt Ion:128 Resp: 13404
Ion Ratio Lower Upper
128 100
49 269.1 0.0 361.5
130 244.8 0.0 324.3



#3
Chloromethane
Concen: 0.280 ug/l
RT: 1.295 min Scan# 34
Delta R.T. 0.000 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Tgt Ion: 50 Resp: 215
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#

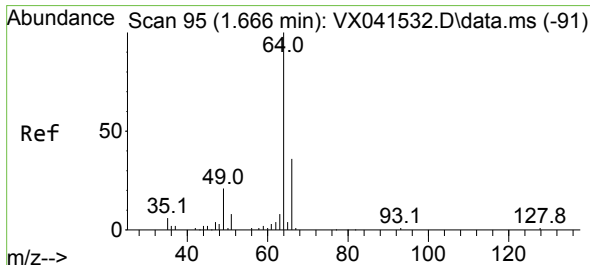
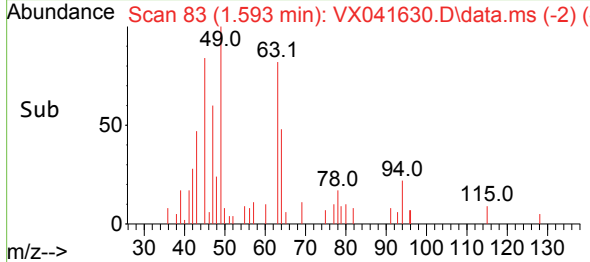
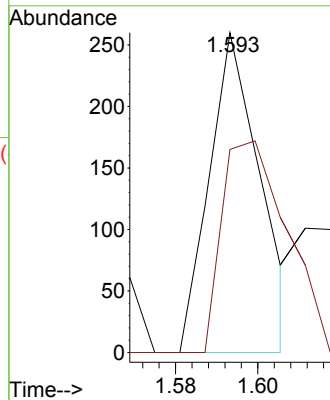
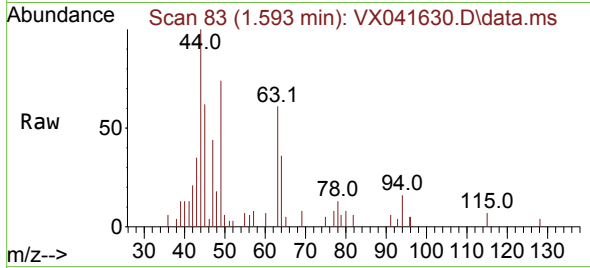




#5
Bromomethane
Concen: 0.436 ug/l
RT: 1.593 min Scan# 81
Delta R.T. -0.006 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

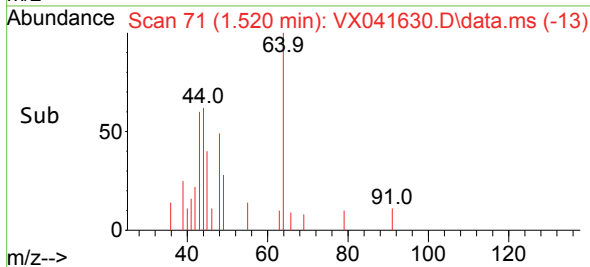
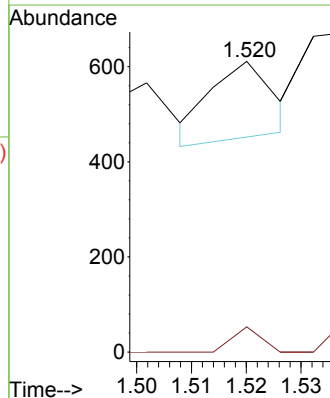
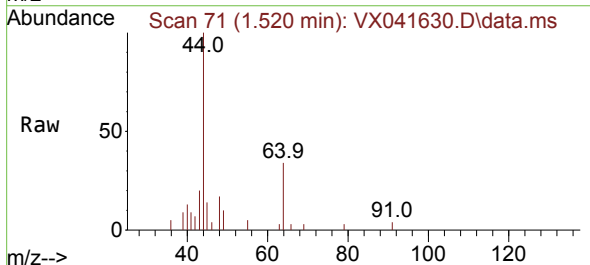
Instrument :
MSVOA_X
ClientSampleId :

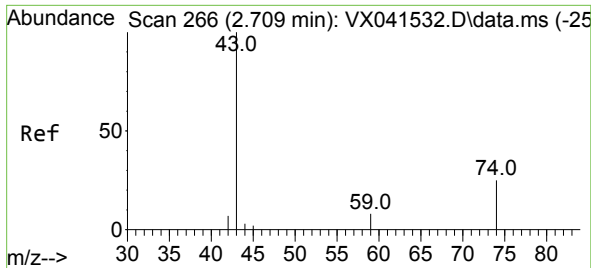
Tgt Ion: 94 Resp: 224
Ion Ratio Lower Upper
94 100
96 63.5 73.9 110.9#



#6
Chloroethane
Concen: 0.318 ug/l
RT: 1.520 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Tgt Ion: 64 Resp: 130
Ion Ratio Lower Upper
64 100
66 41.1 28.6 42.8

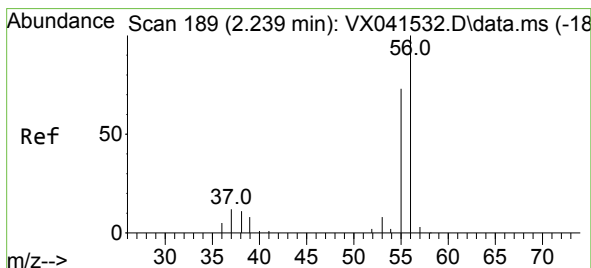
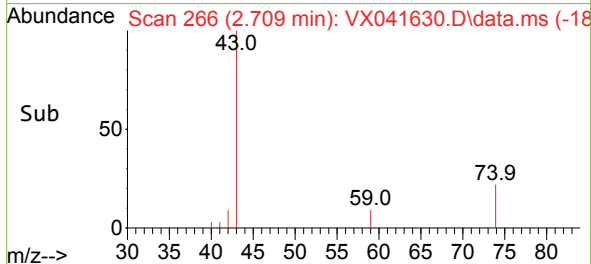
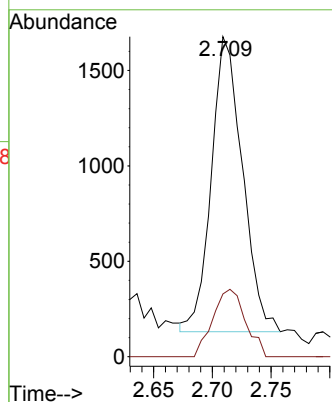
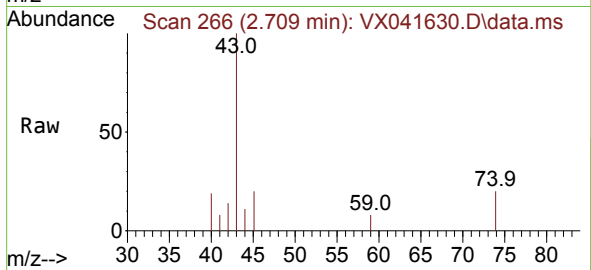




#12
Methyl Acetate
Concen: 2.760 ug/l
RT: 2.709 min Scan# 218
Delta R.T. 0.000 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

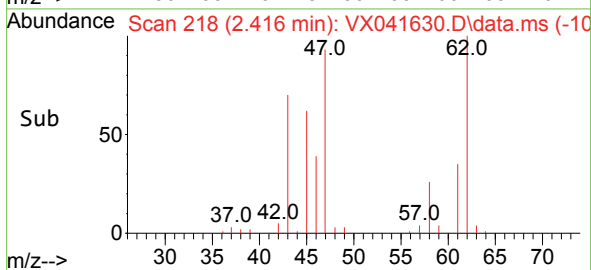
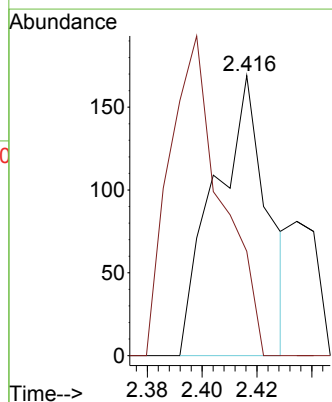
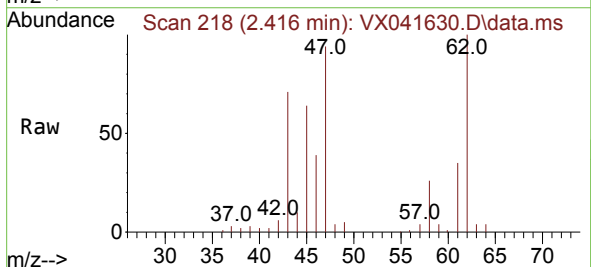
Instrument :
MSVOA_X
ClientSampleId :

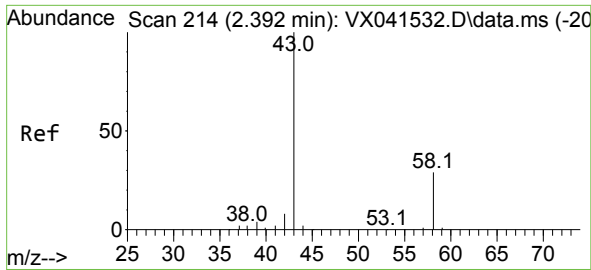
Tgt Ion: 43 Resp: 2851
Ion Ratio Lower Upper
43 100
74 21.6 19.9 29.9



#13
Acrolein
Concen: 1.789 ug/l
RT: 2.416 min Scan# 218
Delta R.T. 0.177 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Tgt Ion: 56 Resp: 225
Ion Ratio Lower Upper
56 100
55 112.9 55.1 82.7#





#15

Acetone

Concen: 212.949 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX041630.D

Acq: 23 May 2024 15:45

Instrument :

MSVOA_X

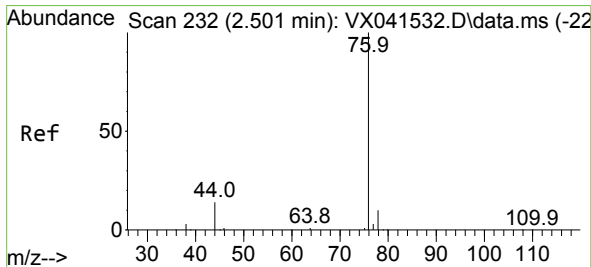
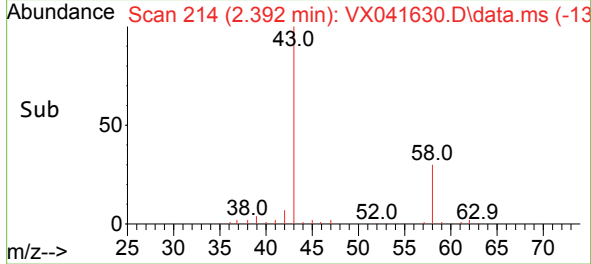
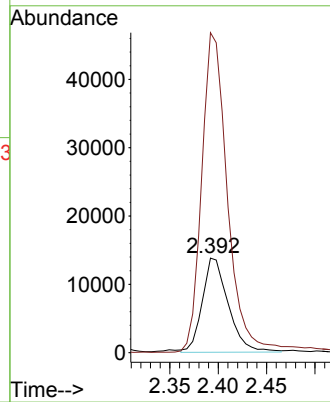
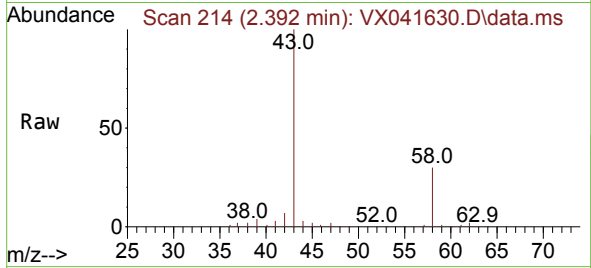
ClientSampleId :

Tgt Ion: 58 Resp: 25909

Ion Ratio Lower Upper

58 100

43 343.7 274.0 411.0



#16

Carbon Disulfide

Concen: 0.448 ug/l

RT: 2.496 min Scan# 231

Delta R.T. -0.006 min

Lab File: VX041630.D

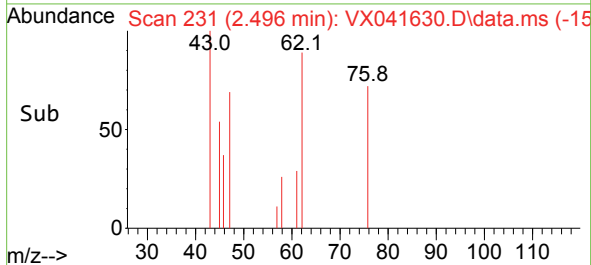
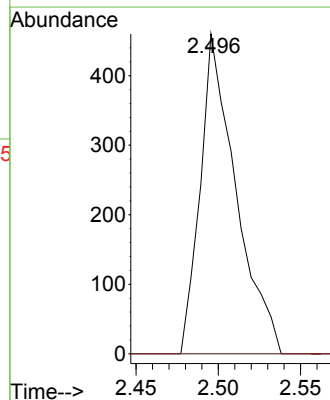
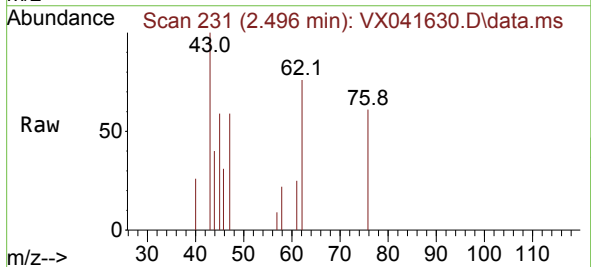
Acq: 23 May 2024 15:45

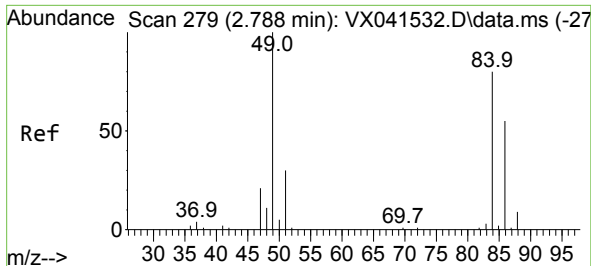
Tgt Ion: 76 Resp: 694

Ion Ratio Lower Upper

76 100

78 0.0 7.6 11.4#





#18

Methylene Chloride

Concen: 0.880 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.000 min

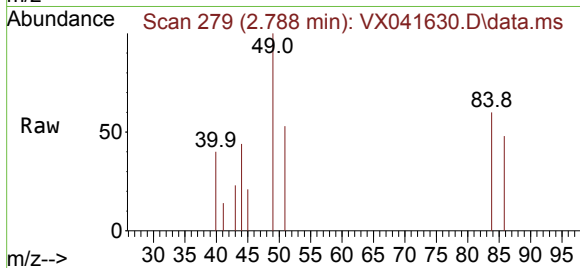
Lab File: VX041630.D

Acq: 23 May 2024 15:45

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 84 Resp: 718

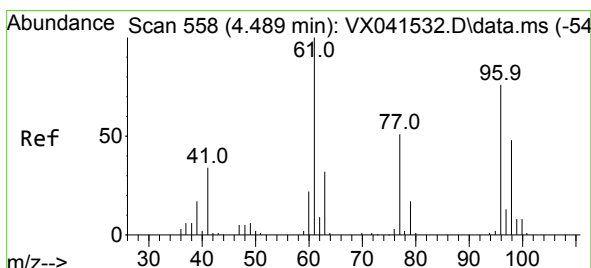
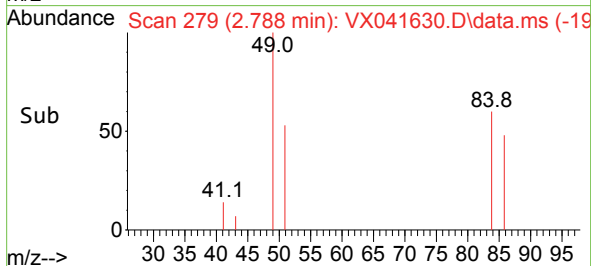
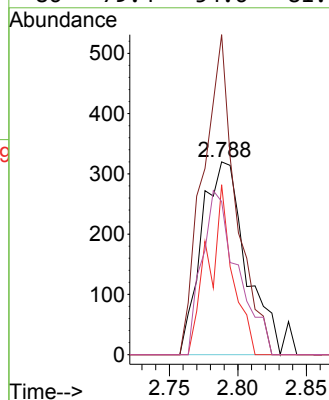
Ion Ratio Lower Upper

84 100

49 165.9 99.8 149.8#

51 88.1 30.2 45.4#

86 79.4 54.6 81.8



#22

cis-1,2-Dichloroethene

Concen: 0.211 ug/l

RT: 4.489 min Scan# 558

Delta R.T. 0.000 min

Lab File: VX041630.D

Acq: 23 May 2024 15:45

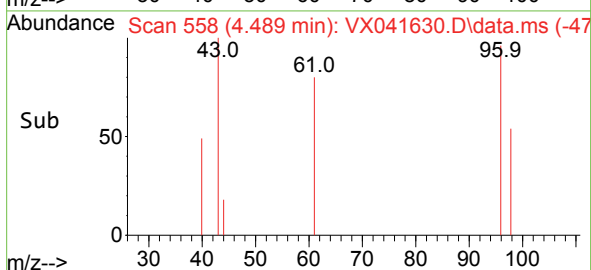
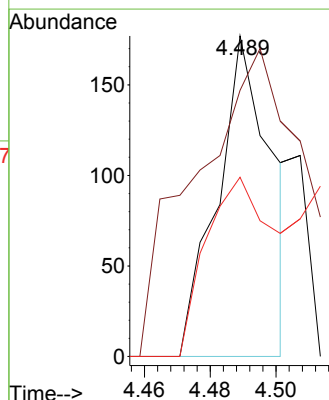
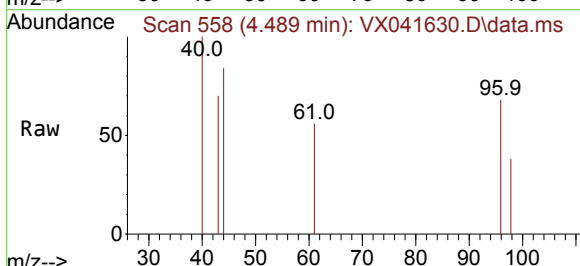
Tgt Ion: 96 Resp: 202

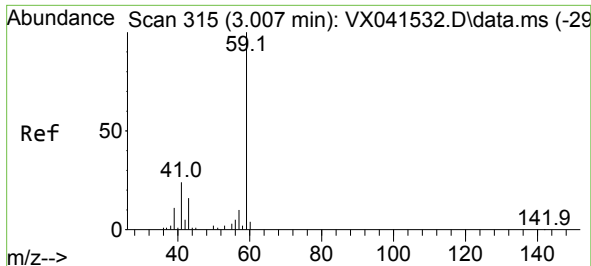
Ion Ratio Lower Upper

96 100

61 187.1 114.2 171.4#

98 69.3 52.6 79.0

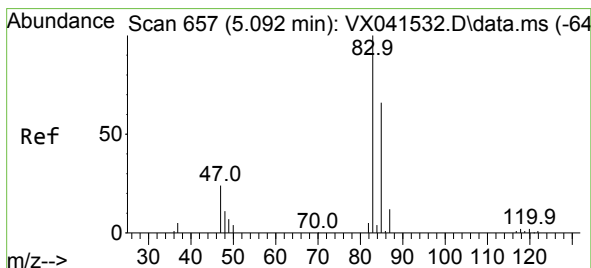
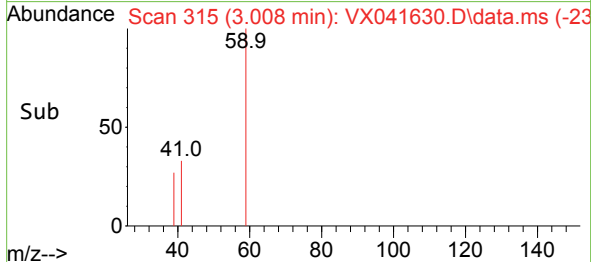
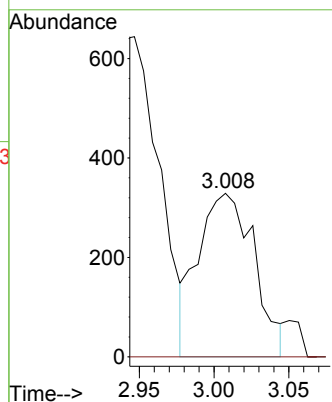
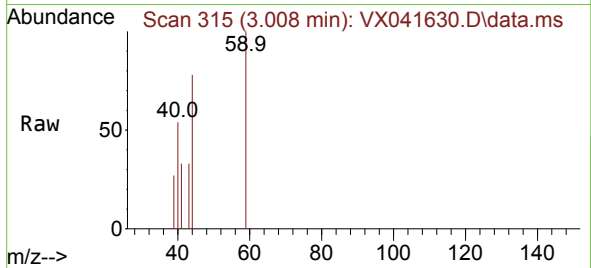




#23
tert-Butyl Alcohol
Concen: 4.442 ug/l
RT: 3.008 min Scan# 315
Delta R.T. 0.000 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

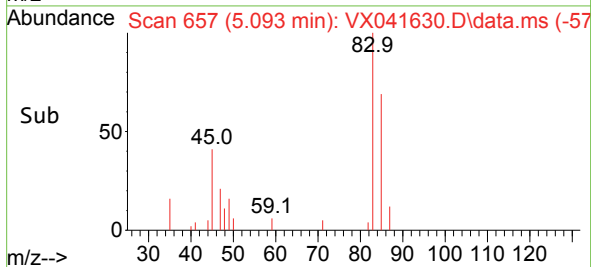
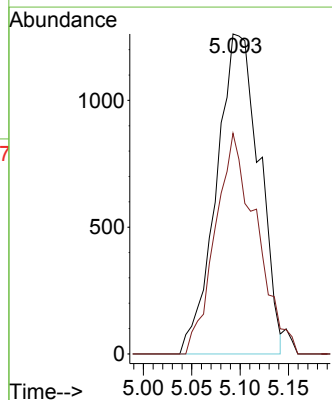
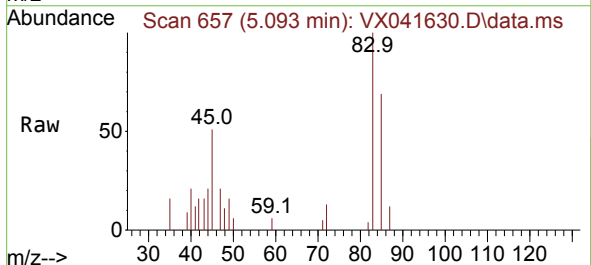
Instrument :
MSVOA_X
ClientSampleId :

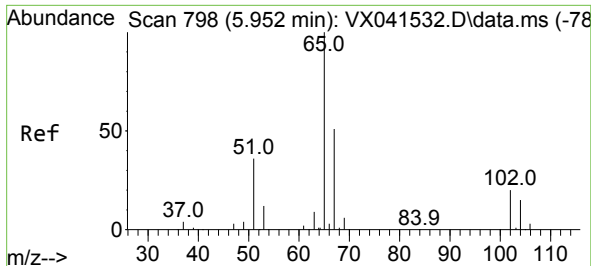
Tgt Ion: 59 Resp: 856
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 2.546 ug/l
RT: 5.093 min Scan# 657
Delta R.T. 0.000 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Tgt Ion: 83 Resp: 3892
Ion Ratio Lower Upper
83 100
85 68.9 52.9 79.3





#27

1,2-Dichloroethane-d4

Concen: 55.696 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX041630.D

Acq: 23 May 2024 15:45

Instrument :

MSVOA_X

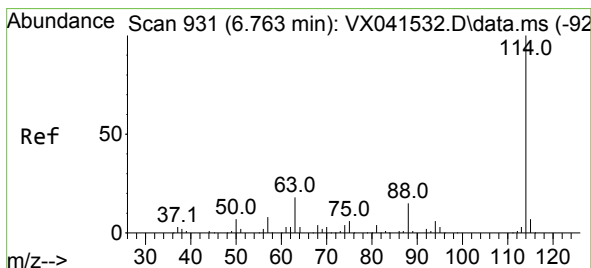
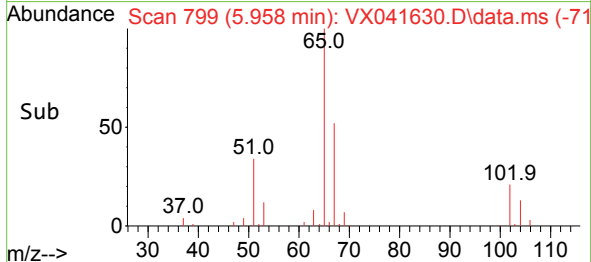
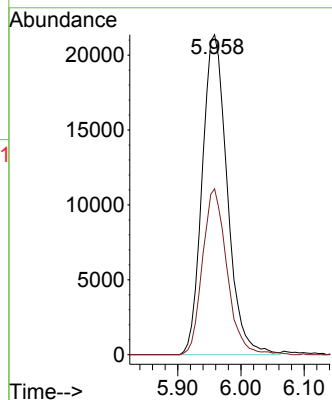
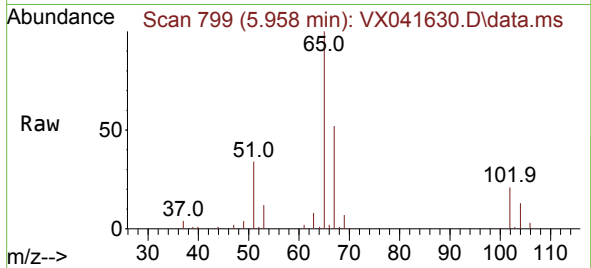
ClientSampleId :

Tgt Ion: 65 Resp: 58790

Ion Ratio Lower Upper

65 100

67 50.1 40.8 61.2



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX041630.D

Acq: 23 May 2024 15:45

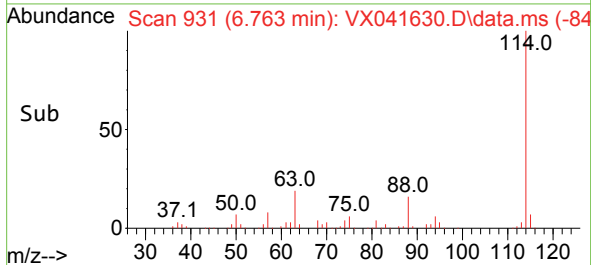
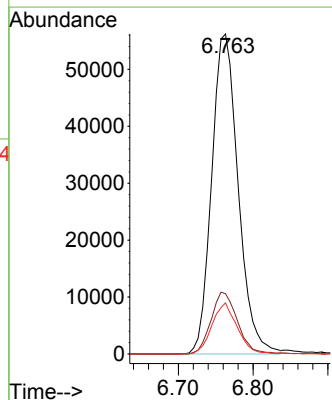
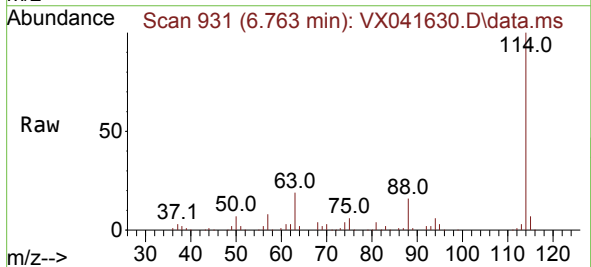
Tgt Ion: 114 Resp: 138719

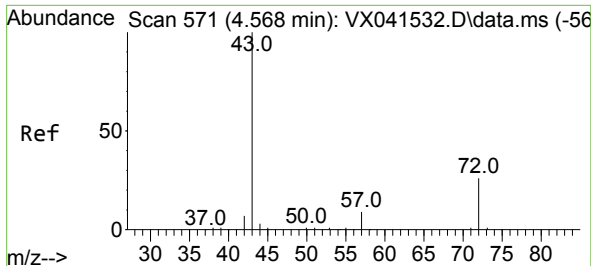
Ion Ratio Lower Upper

114 100

63 19.1 15.4 23.0

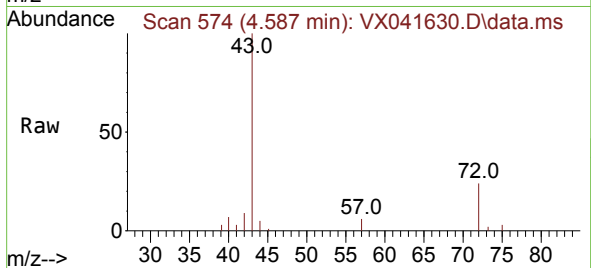
88 15.1 12.2 18.2



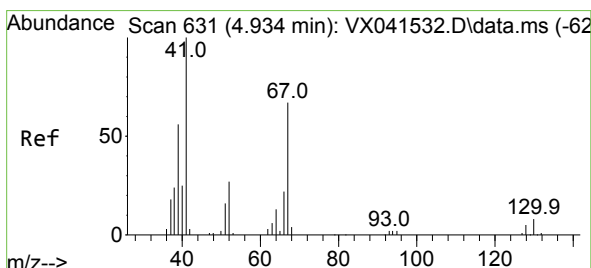
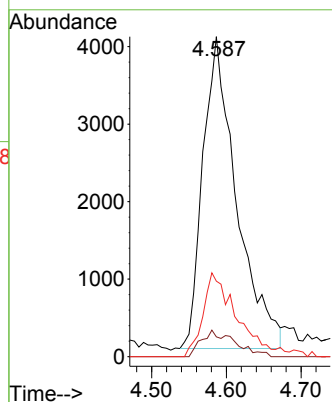
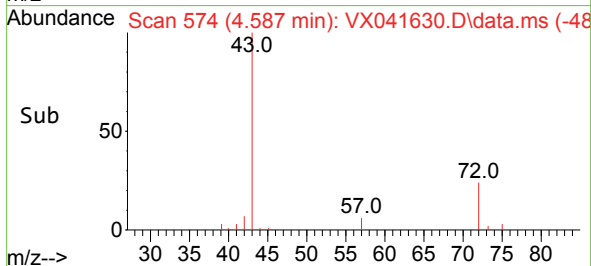


#30
2-Butanone
Concen: 10.335 ug/l
RT: 4.587 min Scan# 51
Delta R.T. 0.018 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Instrument :
MSVOA_X
ClientSampleId :

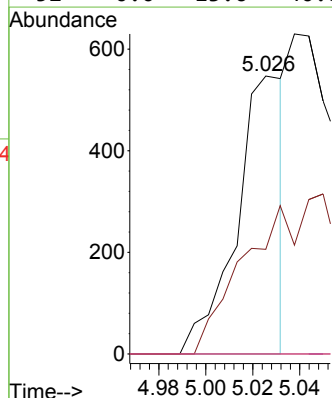
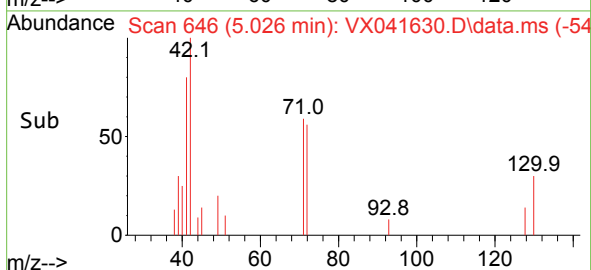
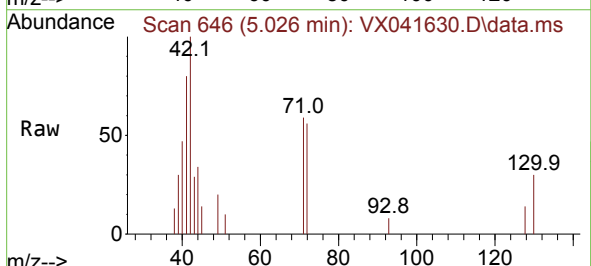


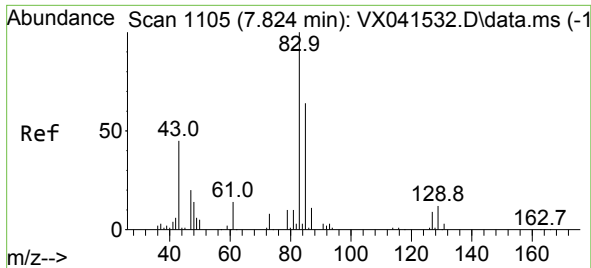
Tgt Ion: 43 Resp: 12588
Ion Ratio Lower Upper
43 100
57 4.6 6.6 10.0#
72 26.6 20.7 31.1



#35
Methacrylonitrile
Concen: 0.629 ug/l
RT: 5.026 min Scan# 646
Delta R.T. 0.092 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

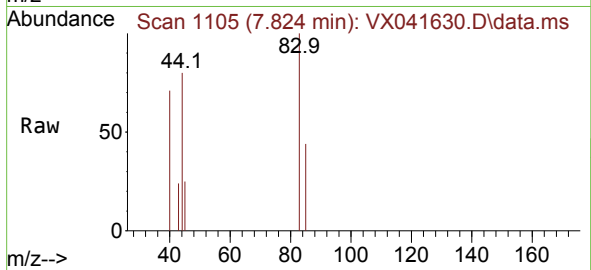
Tgt Ion: 41 Resp: 773
Ion Ratio Lower Upper
41 100
39 37.7 28.1 84.4
67 0.0 33.7 101.1#
52 0.0 13.6 40.8#



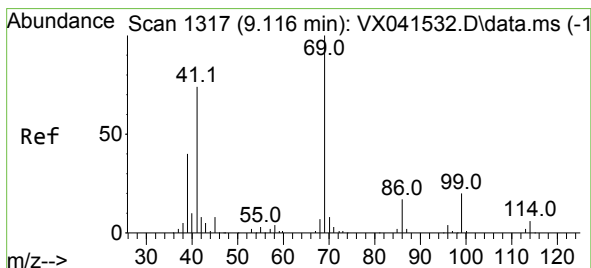
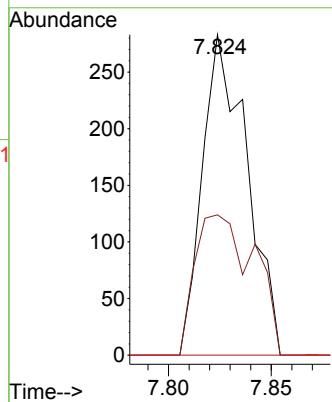
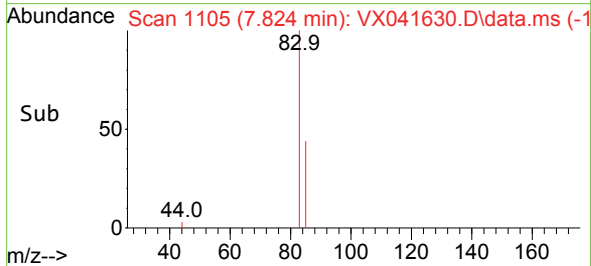


#41
Bromodichloromethane
Concen: 0.211 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Instrument :
MSVOA_X
ClientSampleId :

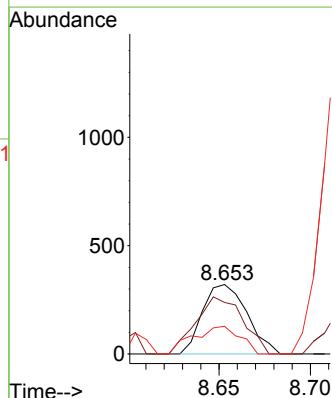
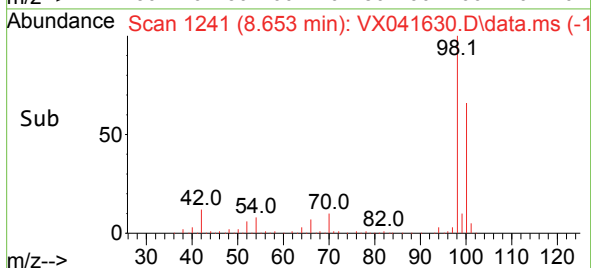
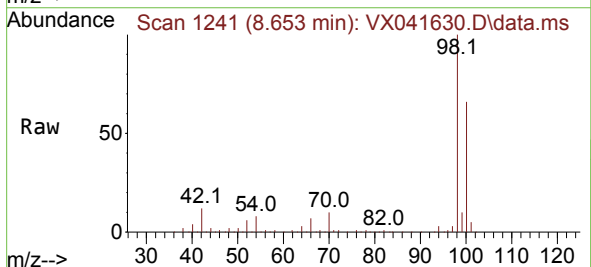


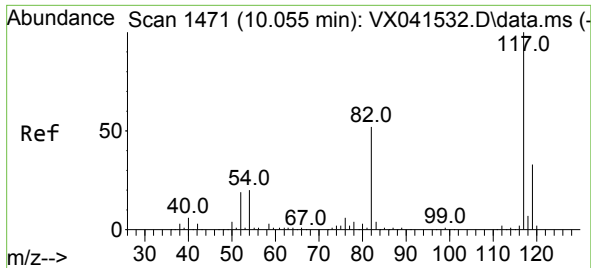
Tgt Ion: 83 Resp: 427
Ion Ratio Lower Upper
83 100
85 43.8 51.0 76.4#
127 0.0 7.1 10.7#



#51
Ethyl methacrylate
Concen: 0.225 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.463 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Tgt Ion: 69 Resp: 543
Ion Ratio Lower Upper
69 100
41 74.1 37.1 111.3
39 39.9 20.2 60.6

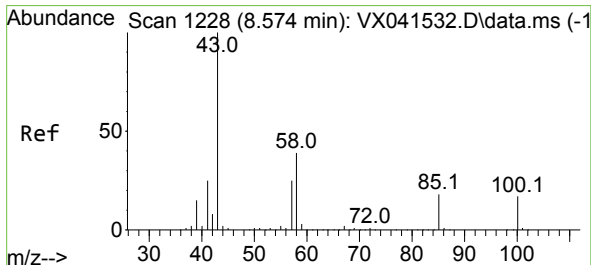
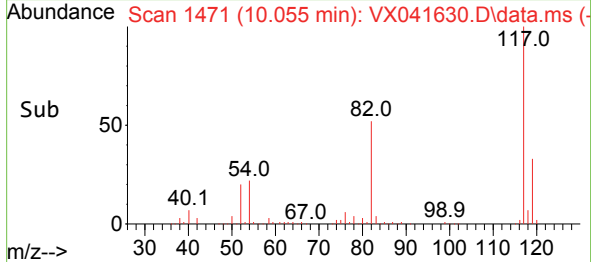
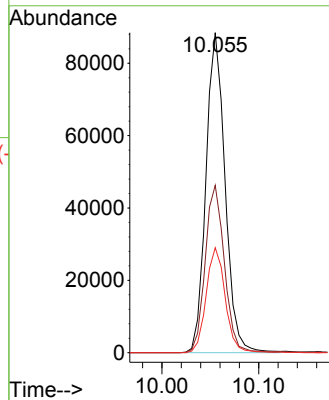
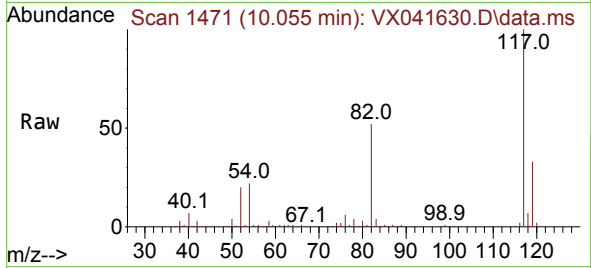




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

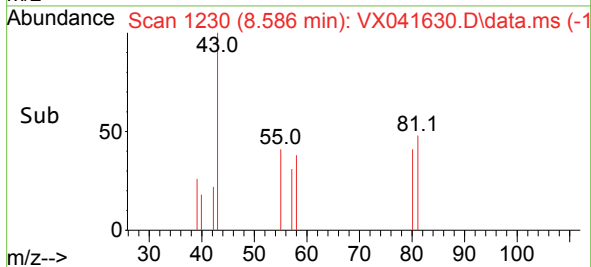
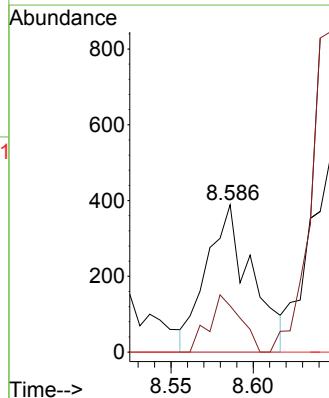
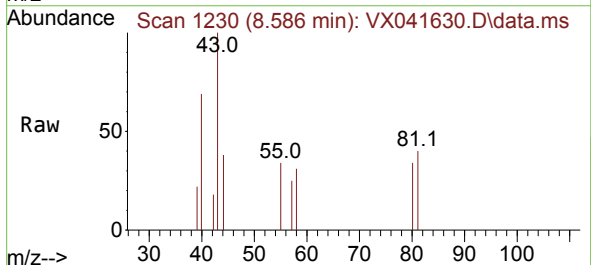
Instrument :
MSVOA_X
ClientSampleId :

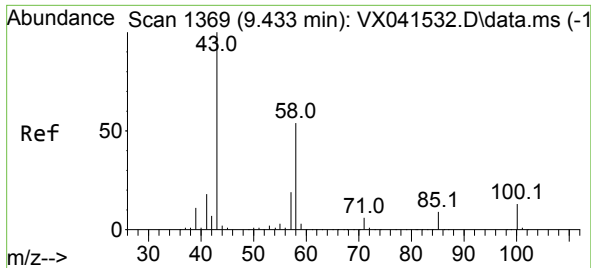
Tgt Ion:117 Resp: 121996
Ion Ratio Lower Upper
117 100
82 52.5 41.7 62.5
119 32.6 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 0.332 ug/l
RT: 8.586 min Scan# 1230
Delta R.T. 0.012 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

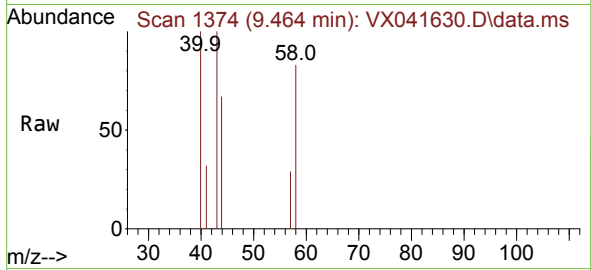
Tgt Ion: 43 Resp: 739
Ion Ratio Lower Upper
43 100
58 27.1 30.2 45.4#
85 0.0 14.6 21.8#



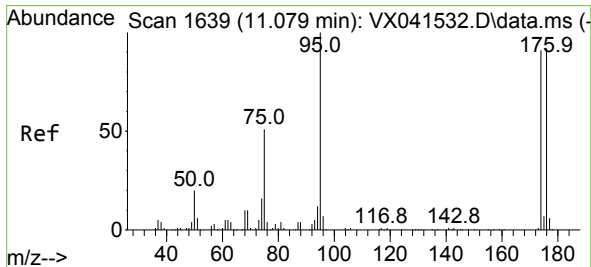
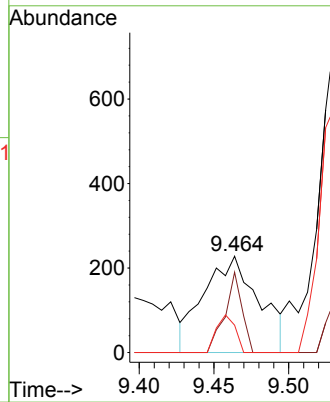
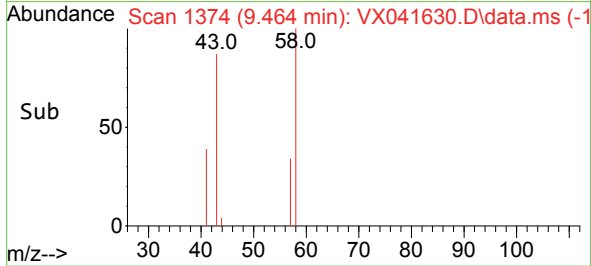


#59
2-Hexanone
Concen: 0.329 ug/l
RT: 9.464 min Scan# 11
Delta R.T. 0.031 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Instrument :
MSVOA_X
ClientSampleId :

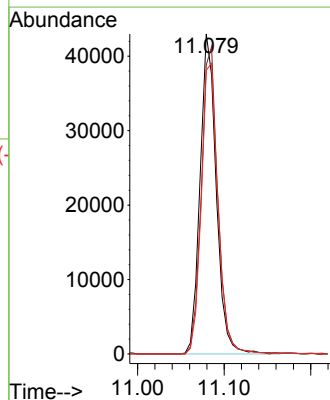
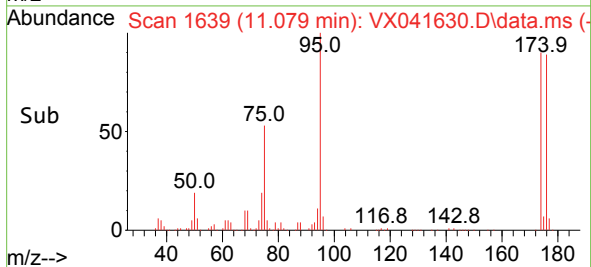
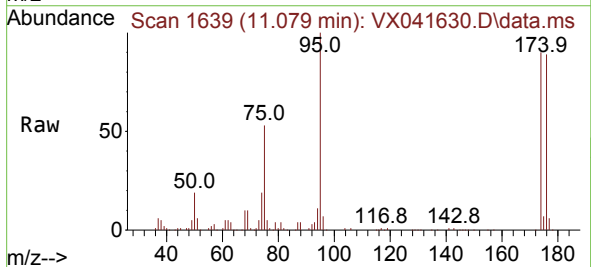


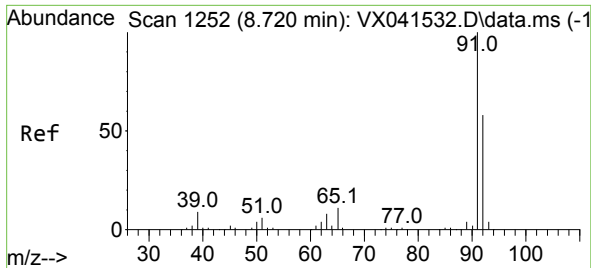
Tgt Ion: 43 Resp: 585
Ion Ratio Lower Upper
43 100
58 25.8 42.3 63.5#
57 13.3 15.1 22.7#



#60
4-Bromofluorobenzene
Concen: 29.318 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Tgt Ion: 95 Resp: 55834
Ion Ratio Lower Upper
95 100
174 97.8 76.6 115.0
176 93.8 75.4 113.0

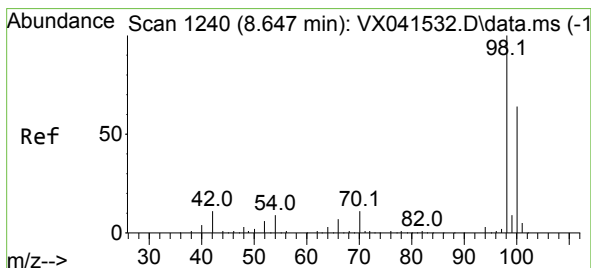
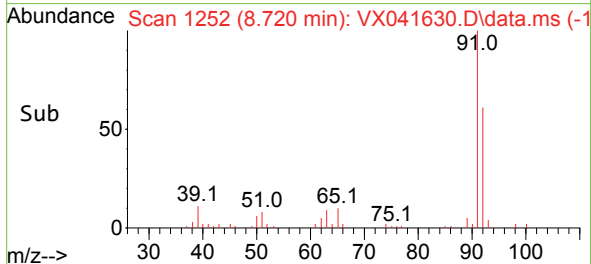
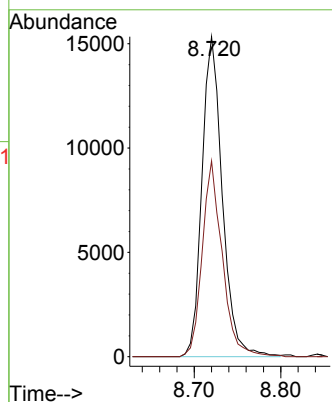
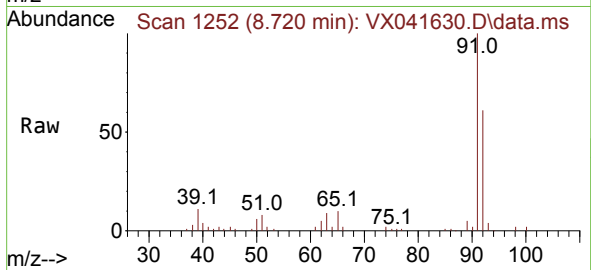




#62
Toluene
Concen: 4.132 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

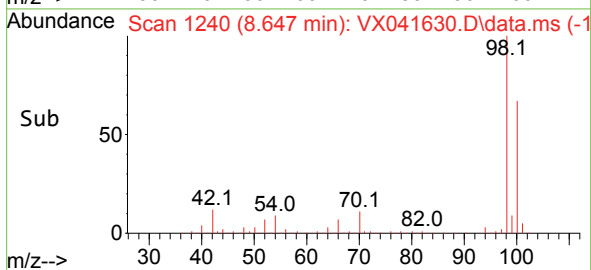
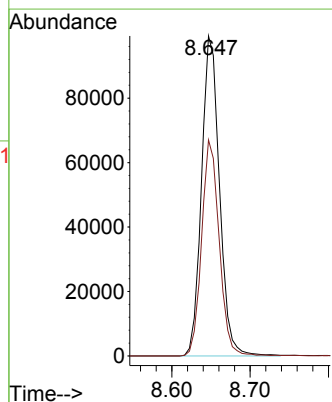
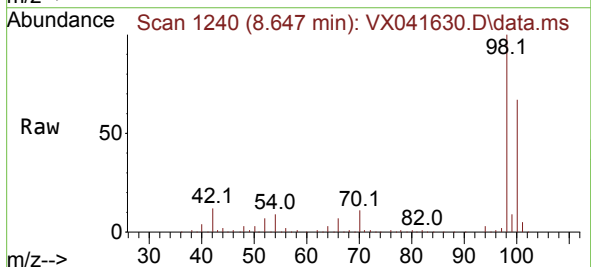
Instrument :
MSVOA_X
ClientSampleId :

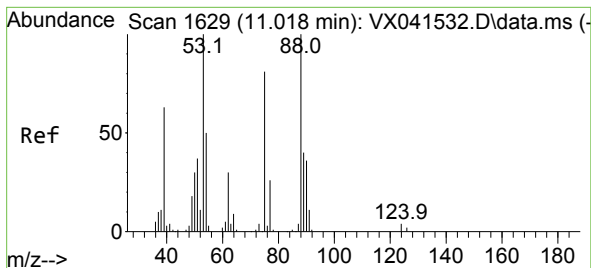
Tgt Ion: 91 Resp: 25081
Ion Ratio Lower Upper
91 100
92 60.2 47.0 70.6



#63
Toluene-d8
Concen: 30.249 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Tgt Ion: 98 Resp: 158186
Ion Ratio Lower Upper
98 100
100 65.7 53.1 79.7

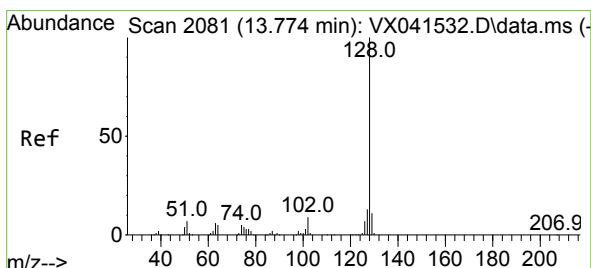
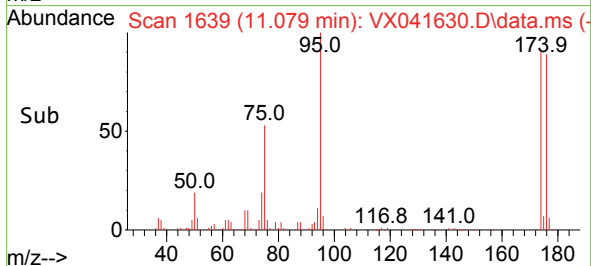
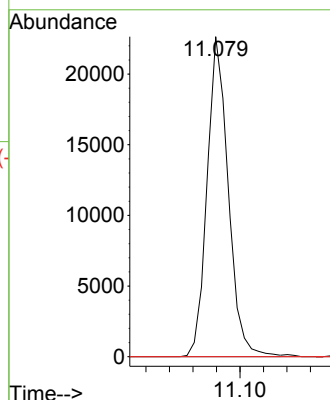
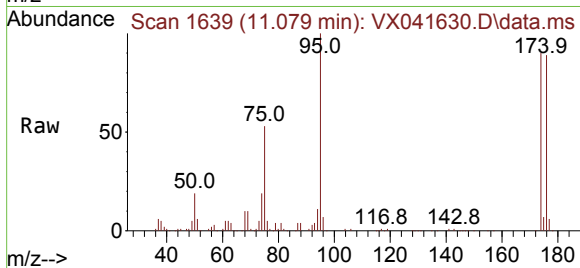




#77
t-1,4-Dichloro-2-butene
Concen: 43.370 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 75 Resp: 28314
Ion Ratio Lower Upper
75 100
53 0.0 61.8 185.3#
89 0.0 24.9 74.7#



#91
Naphthalene
Concen: 1.174 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX041630.D
Acq: 23 May 2024 15:45

Tgt Ion:128 Resp: 8499
Ion Ratio Lower Upper
128 100
127 11.6 10.6 16.0
129 10.6 8.8 13.2

