

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030924\
 Data File : VX040625.D
 Acq On : 08 Mar 2024 12:25
 Operator : JC/MD
 Sample : P1689-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE(MARCH)

Quant Time: Mar 08 23:52:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

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

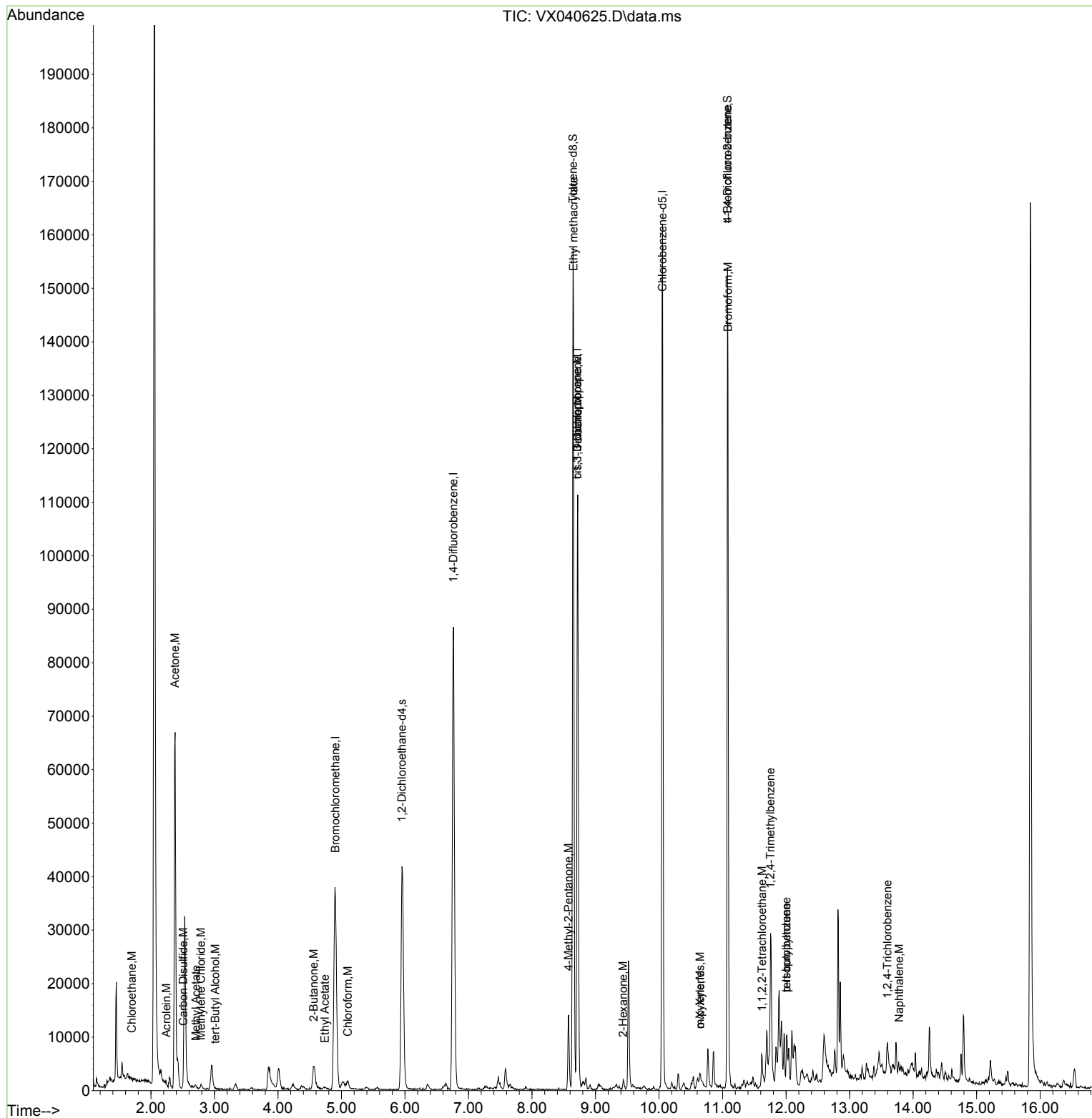
Internal Standards						
1) Bromochloromethane	4.904	128	14736	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	82078	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	69956	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	44299	30.100	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.333%	
60) 4-Bromofluorobenzene	11.079	95	38555	32.130	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 107.100%	
63) Toluene-d8	8.647	98	92112	29.795	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 99.300%	
Target Compounds						Qvalue
6) Chloroethane	1.697	64	262	0.403	ug/l	99
12) Methyl Acetate	2.709	43	804	0.555	ug/l #	54
13) Acrolein	2.239	56	504	1.847	ug/l	86
15) Acetone	2.380	58	19123	117.371	ug/l	71
16) Carbon Disulfide	2.508	76	1324	0.548	ug/l #	90
18) Methylene Chloride	2.788	84	315	0.314	ug/l #	55
23) tert-Butyl Alcohol	3.014	59	82	0.304	ug/l #	100
25) Chloroform	5.099	83	1506	0.737	ug/l	83
30) 2-Butanone	4.562	43	4706	5.428	ug/l #	69
43) Ethyl Acetate	4.739	43	1170	0.717	ug/l #	64
48) t-1,3-Dichloropropene	8.714	75	702	0.435	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	702	0.427	ug/l #	1
51) Ethyl methacrylate	8.653	69	340	0.212	ug/l	90
56) Bromoform	11.085	173	226	0.274	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	8089	5.193	ug/l	96
59) 2-Hexanone	9.433	43	1264	1.005	ug/l #	80
62) Toluene	8.720	91	71637	18.593	ug/l	99
67) m/p-Xylenes	10.646	106	421	0.257	ug/l	89
68) o-Xylene	10.646	106	421	0.267	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.622	83	834	0.558	ug/l #	30
77) t-1,4-Dichloro-2-butene	11.079	75	22533	53.867	ug/l #	12
79) tert-butylbenzene	12.006	119	3312	0.945	ug/l	66
80) 1,2,4-Trimethylbenzene	11.756	105	3154	0.852	ug/l	62
82) p-Isopropyltoluene	12.006	119	3312	0.874	ug/l	94
89) 1,2,4-Trichlorobenzene	13.597	180	279	0.217	ug/l #	65
91) Naphthalene	13.780	128	1132	0.270	ug/l #	93

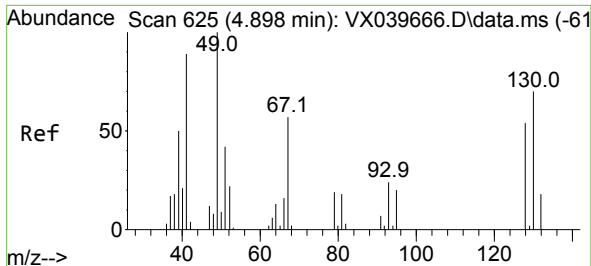
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Mar 05 13:21:29 2024
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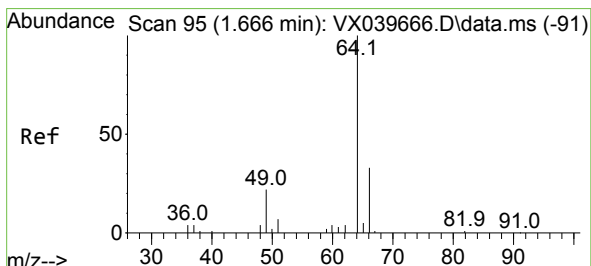
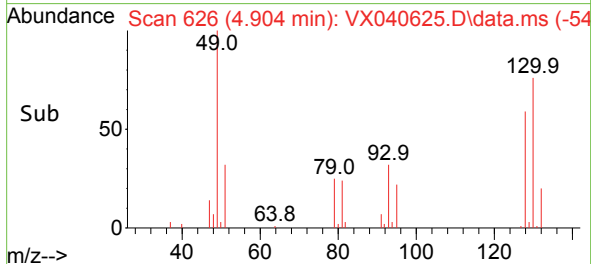
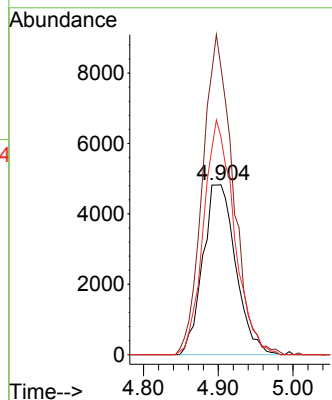
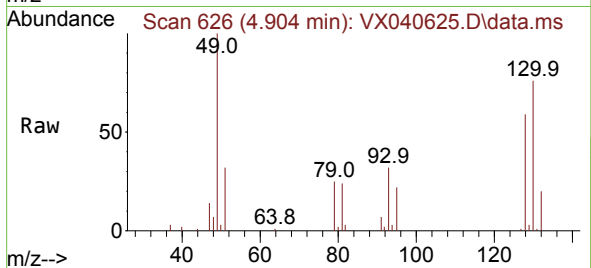




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

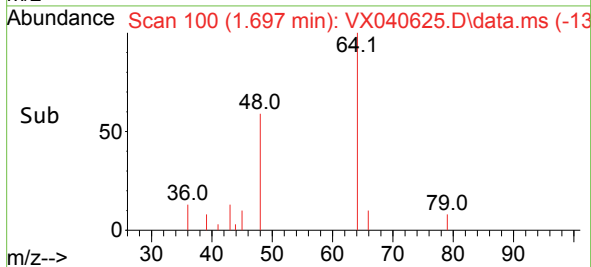
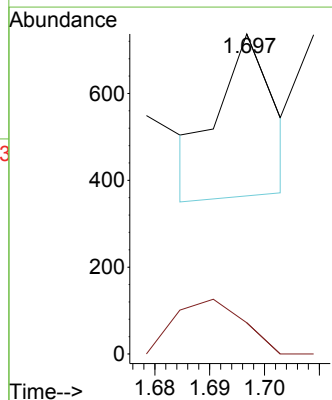
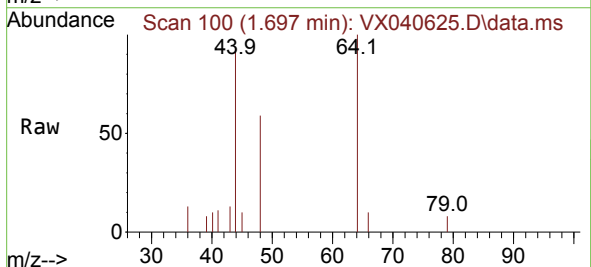
Instrument :
MSVOA_X
ClientSampleId :
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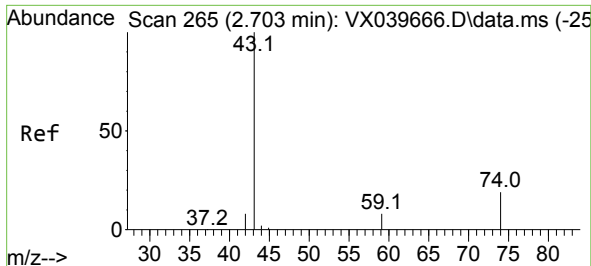
Tgt Ion:128 Resp: 14736
Ion Ratio Lower Upper
128 100
49 174.4 0.0 444.0
130 129.5 0.0 297.8



#6
Chloroethane
Concen: 0.403 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.031 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

Tgt Ion: 64 Resp: 262
Ion Ratio Lower Upper
64 100
66 30.9 25.0 37.6

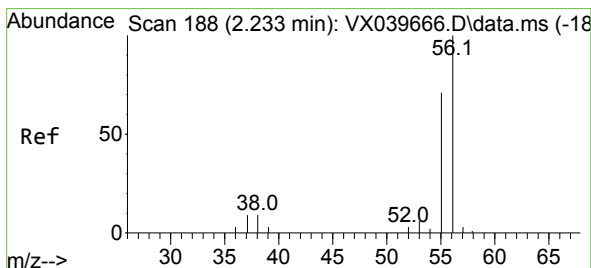
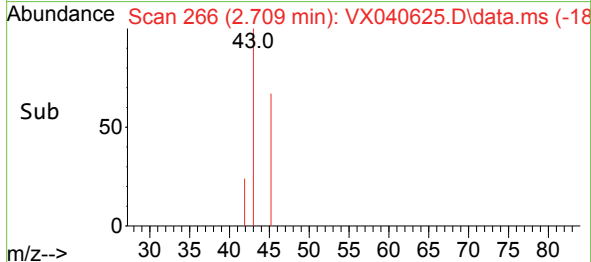
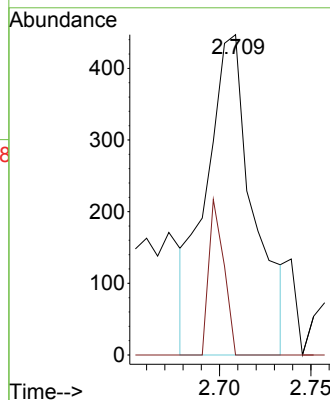
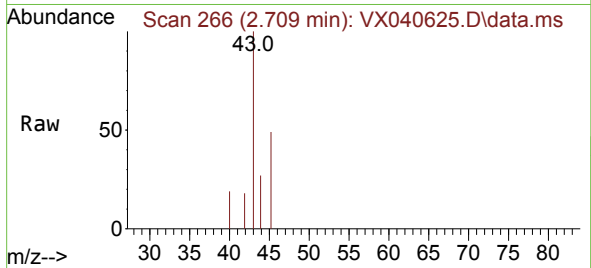




#12
Methyl Acetate
Concen: 0.555 ug/l
RT: 2.709 min Scan# 204
Delta R.T. 0.006 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

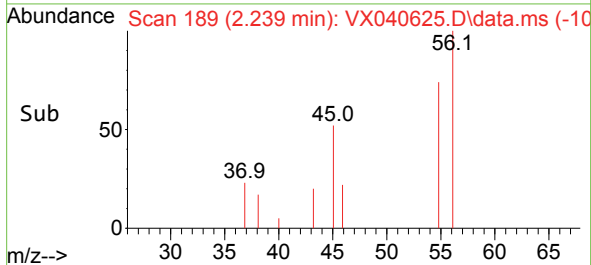
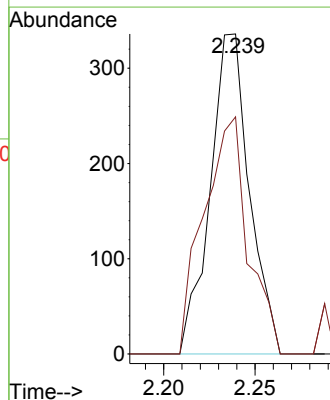
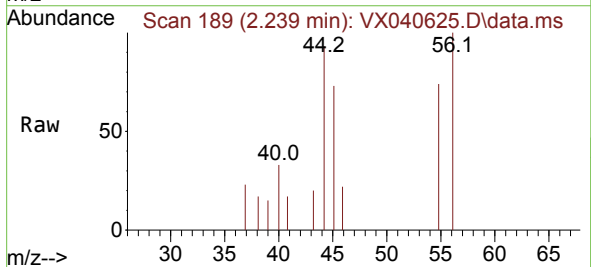
Instrument :
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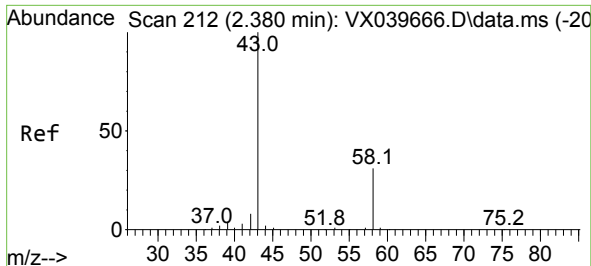
Tgt Ion: 43 Resp: 804
Ion Ratio Lower Upper
43 100
74 0.0 17.8 26.6#



#13
Acrolein
Concen: 1.847 ug/l
RT: 2.239 min Scan# 189
Delta R.T. 0.006 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

Tgt Ion: 56 Resp: 504
Ion Ratio Lower Upper
56 100
55 83.1 57.2 85.8

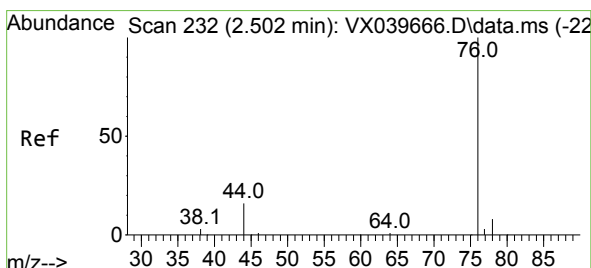
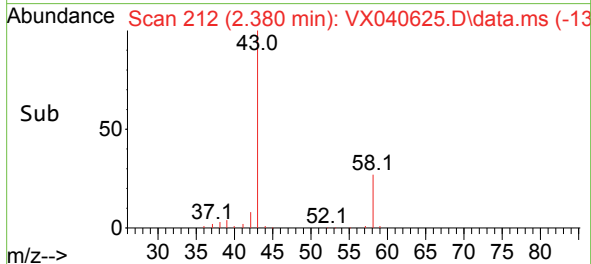
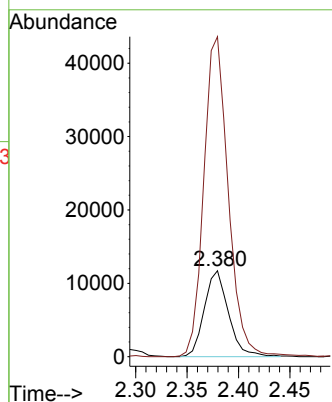
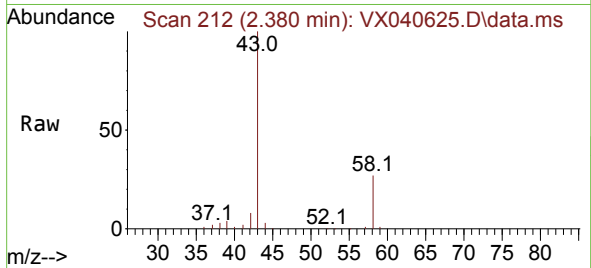




#15
Acetone
Concen: 117.371 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

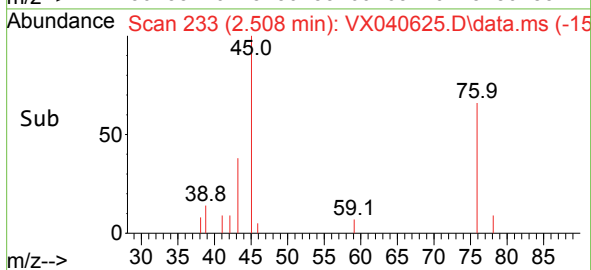
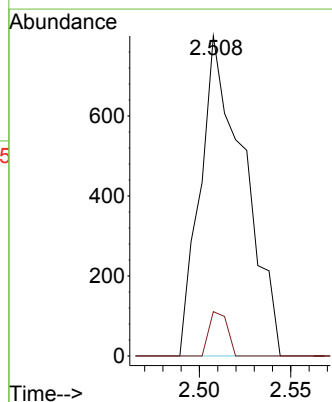
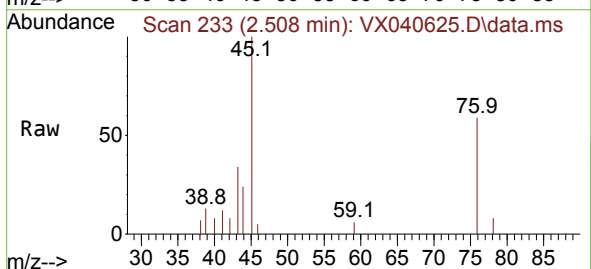
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(MARCH)

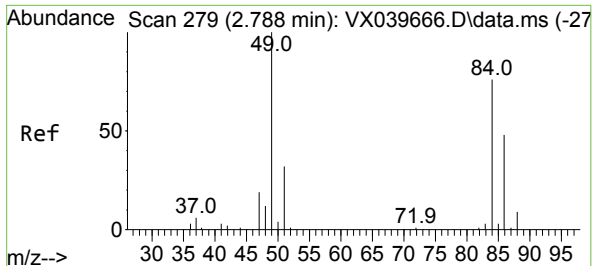
Tgt Ion: 58 Resp: 19123
Ion Ratio Lower Upper
58 100
43 371.6 249.9 374.9



#16
Carbon Disulfide
Concen: 0.548 ug/l
RT: 2.508 min Scan# 233
Delta R.T. 0.006 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

Tgt Ion: 76 Resp: 1324
Ion Ratio Lower Upper
76 100
78 13.9 8.0 12.0#





#18

Methylene Chloride

Concen: 0.314 ug/l

RT: 2.788 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX040625.D

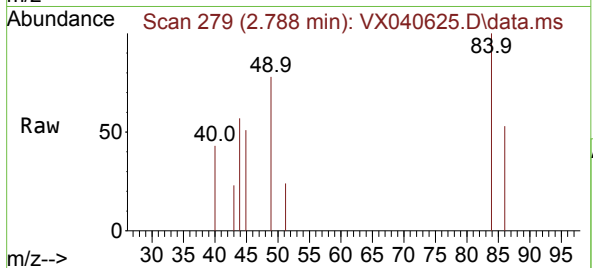
Acq: 08 Mar 2024 12:25

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(MARCH)



Tgt Ion: 84 Resp: 315

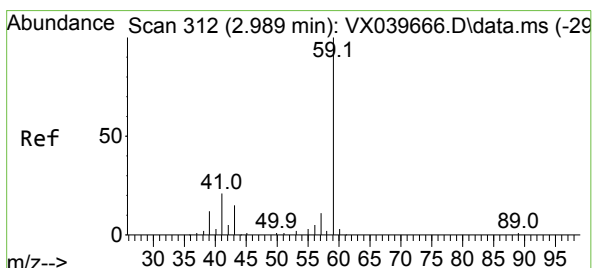
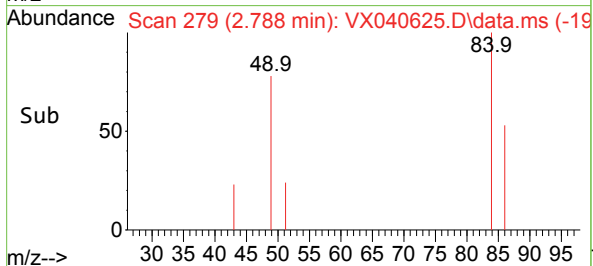
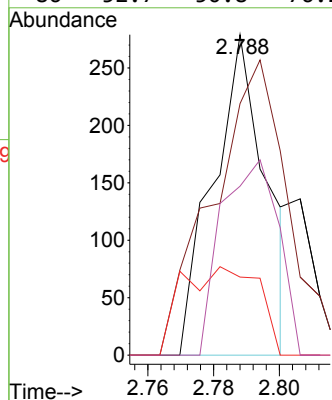
Ion Ratio Lower Upper

84 100

49 52.0 103.8 155.8#

51 24.4 31.8 47.6#

86 52.7 50.8 76.2



#23

tert-Butyl Alcohol

Concen: 0.304 ug/l

RT: 3.014 min Scan# 316

Delta R.T. 0.025 min

Lab File: VX040625.D

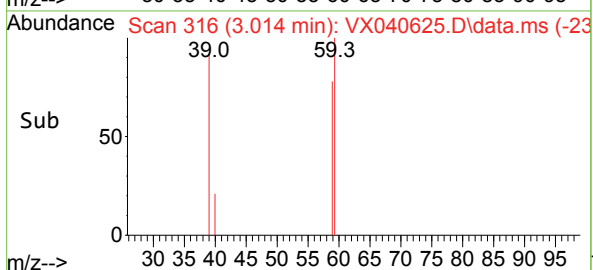
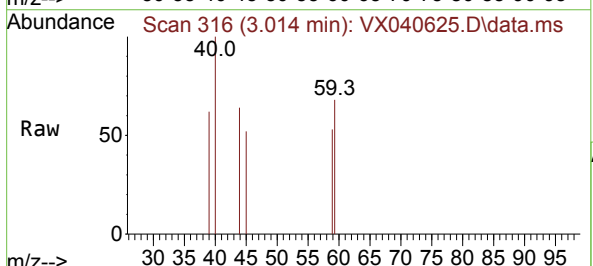
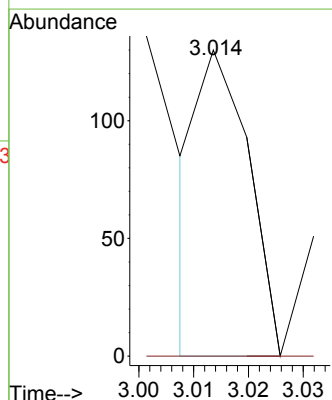
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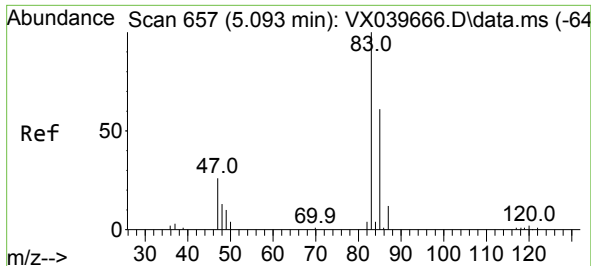
Tgt Ion: 59 Resp: 82

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

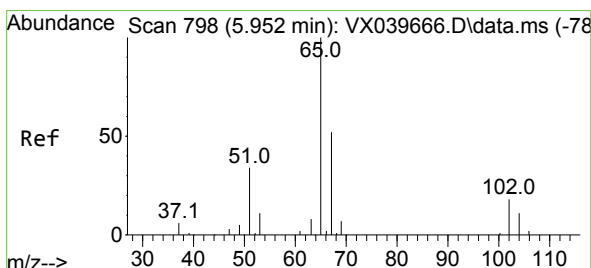
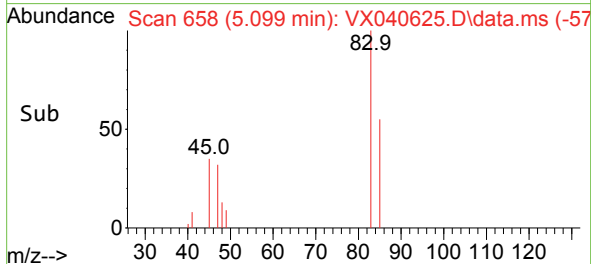
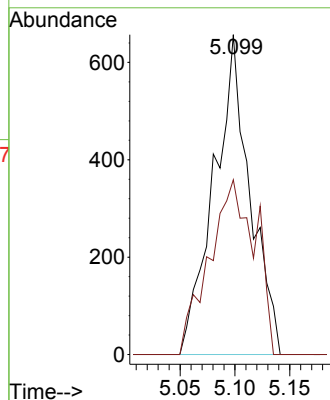
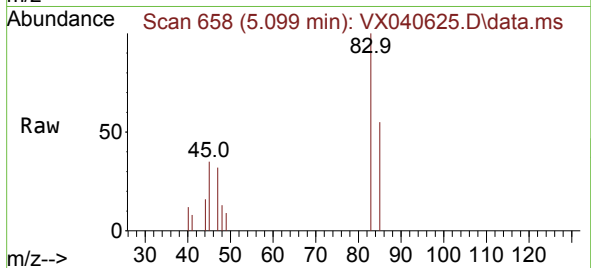




#25
Chloroform
Concen: 0.737 ug/l
RT: 5.099 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

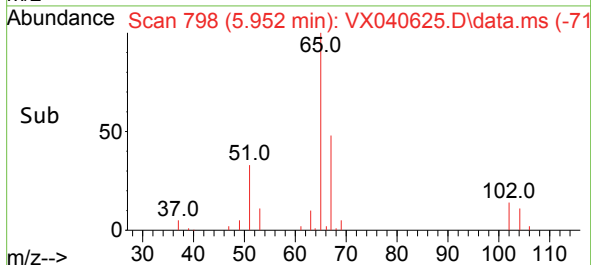
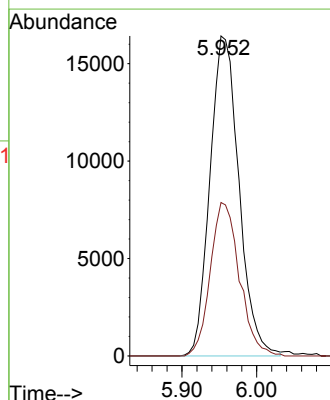
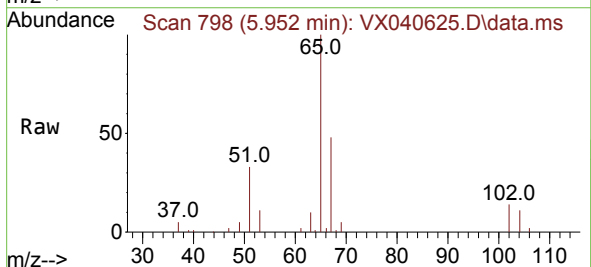
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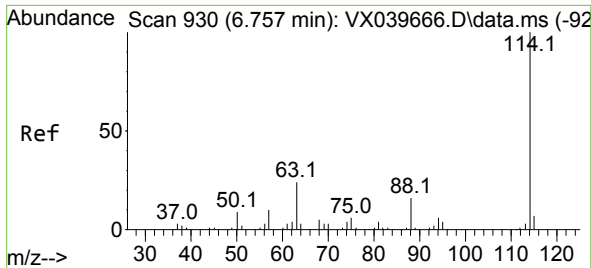
Tgt Ion: 83 Resp: 1506
Ion Ratio Lower Upper
83 100
85 54.6 54.6 81.8



#27
1,2-Dichloroethane-d4
Concen: 30.100 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

Tgt Ion: 65 Resp: 44299
Ion Ratio Lower Upper
65 100
67 48.2 42.5 63.7

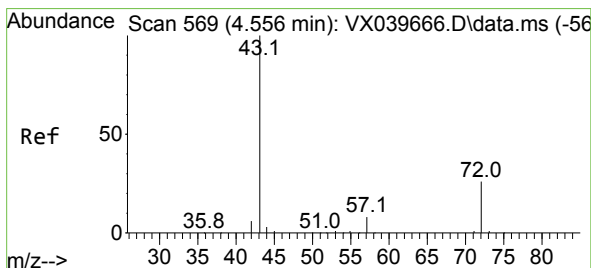
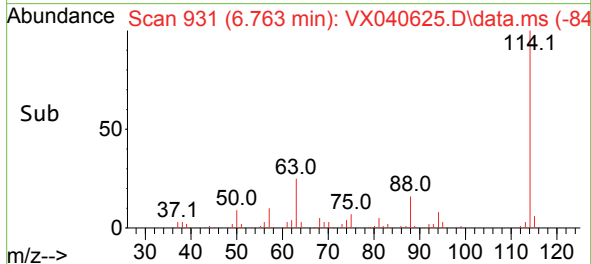
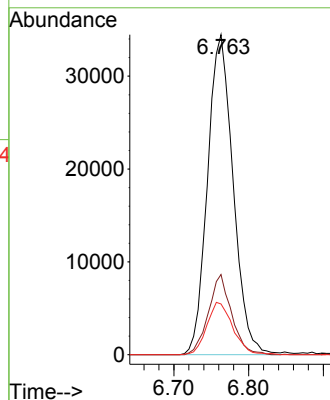
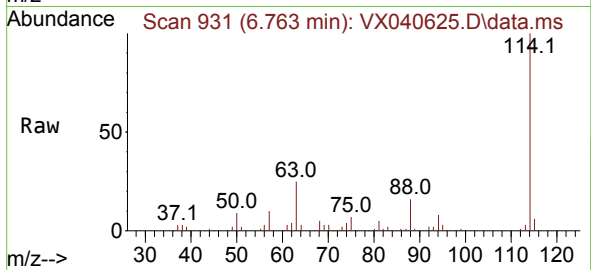




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

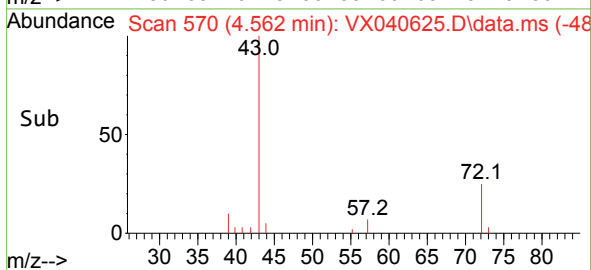
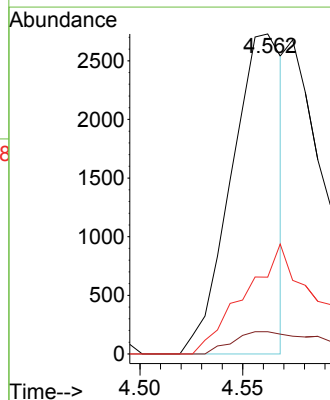
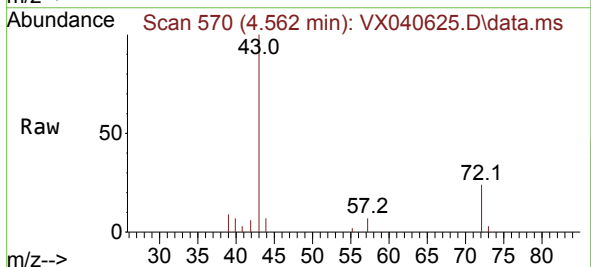
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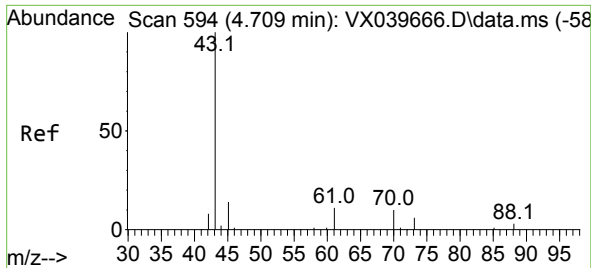
Tgt Ion:114 Resp: 82078
Ion Ratio Lower Upper
114 100
63 22.6 17.0 25.4
88 16.5 12.7 19.1



#30
2-Butanone
Concen: 5.428 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.006 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

Tgt Ion: 43 Resp: 4706
Ion Ratio Lower Upper
43 100
57 9.0 6.6 10.0
72 46.1 20.6 31.0#

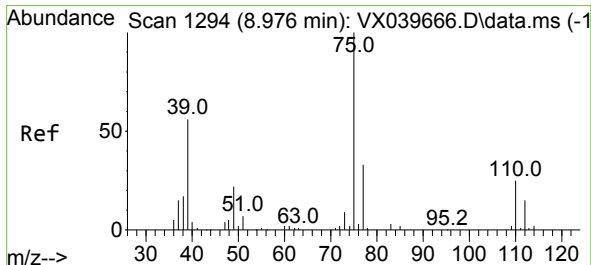
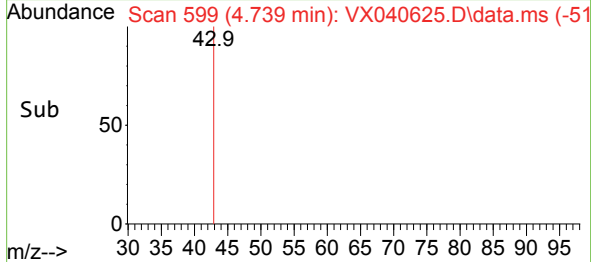
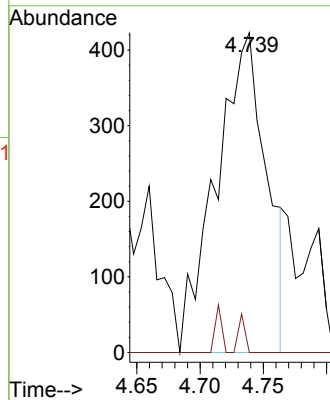
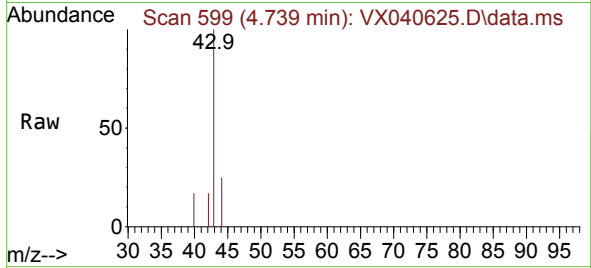




#43
Ethyl Acetate
Concen: 0.717 ug/l
RT: 4.739 min Scan# 51
Delta R.T. 0.030 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

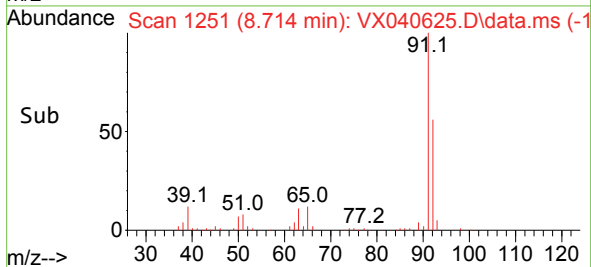
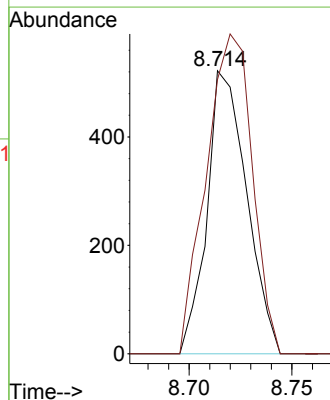
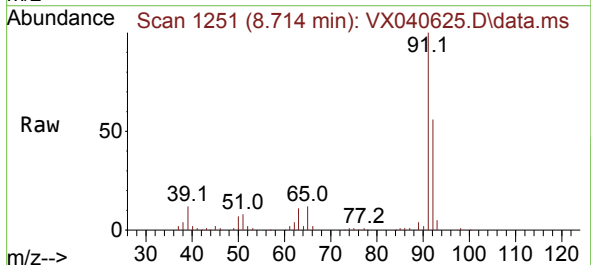
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002-35TH-AVE(MARCH)

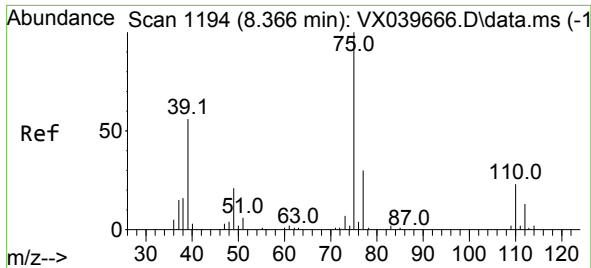
Tgt Ion: 43 Resp: 1170
Ion Ratio Lower Upper
43 100
45 0.0 11.8 17.8#



#48
t-1,3-Dichloropropene
Concen: 0.435 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.262 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

Tgt Ion: 75 Resp: 702
Ion Ratio Lower Upper
75 100
77 96.9 26.8 40.2#

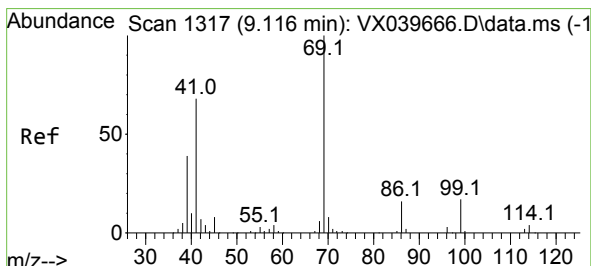
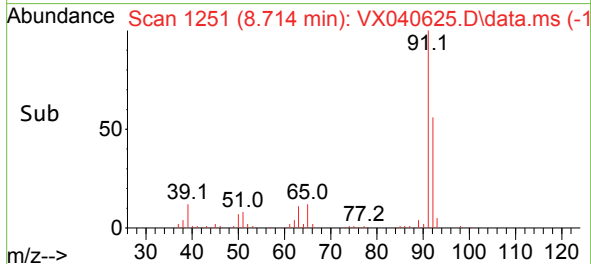
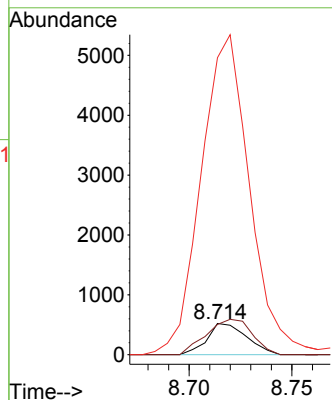
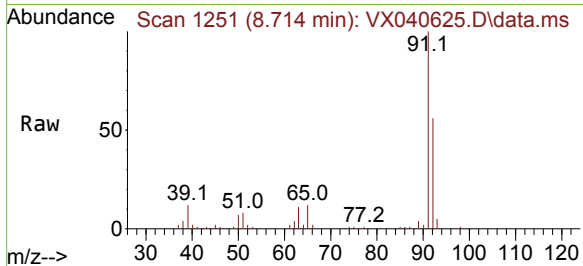




#49
cis-1,3-Dichloropropene
Concen: 0.427 ug/l
RT: 8.714 min Scan# 1194
Delta R.T. 0.348 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

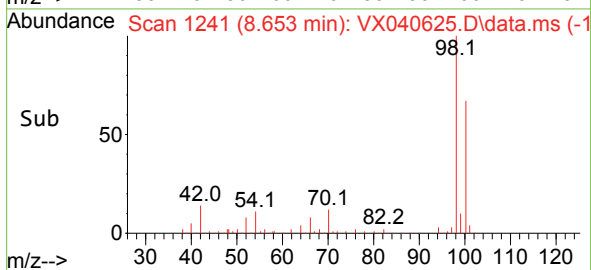
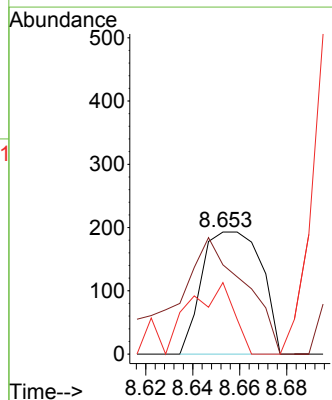
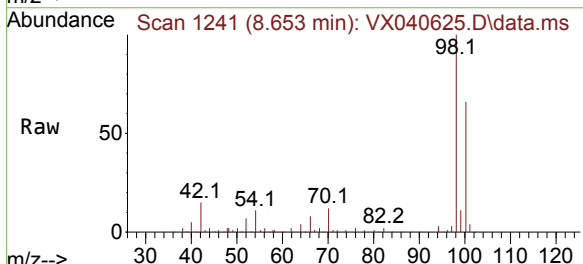
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(MARCH)

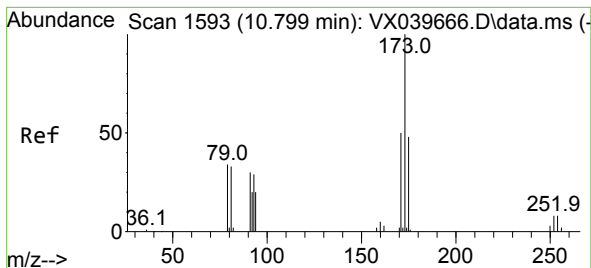
Tgt Ion: 75 Resp: 702
Ion Ratio Lower Upper
75 100
77 96.9 24.4 36.6#
39 868.8 40.6 60.8#



#51
Ethyl methacrylate
Concen: 0.212 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. -0.463 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

Tgt Ion: 69 Resp: 340
Ion Ratio Lower Upper
69 100
41 73.1 36.2 108.6
39 58.5 21.1 63.4





#56

Bromoform

Concen: 0.274 ug/l

RT: 11.085 min Scan# 1

Delta R.T. 0.286 min

Lab File: VX040625.D

Acq: 08 Mar 2024 12:25

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(MARCH)

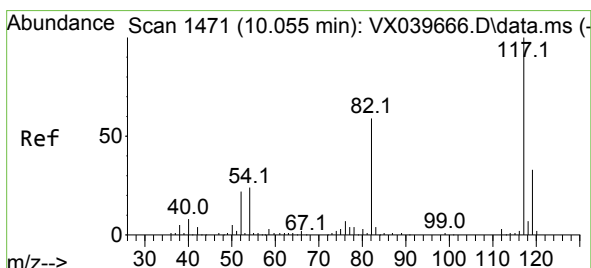
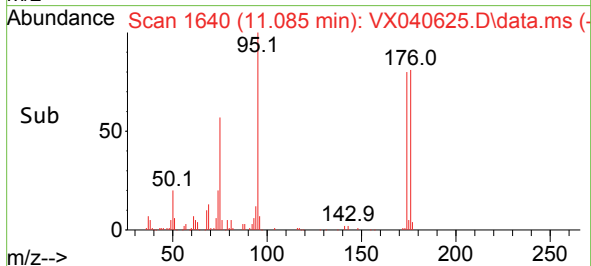
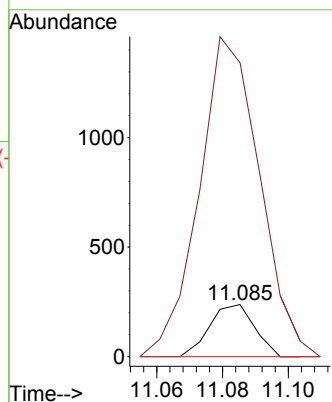
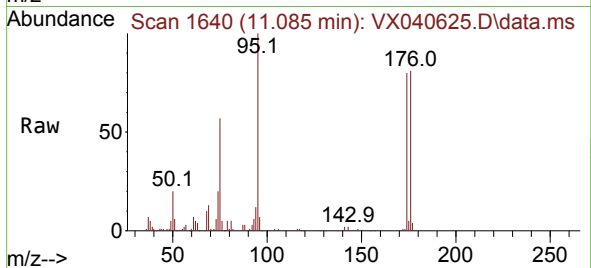
Tgt Ion:173 Resp: 226

Ion Ratio Lower Upper

173 100

175 825.2 37.6 56.4#

254 0.0 5.8 8.8#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX040625.D

Acq: 08 Mar 2024 12:25

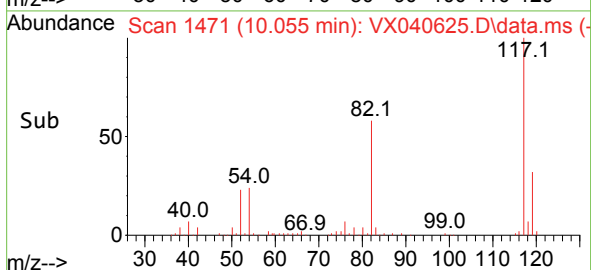
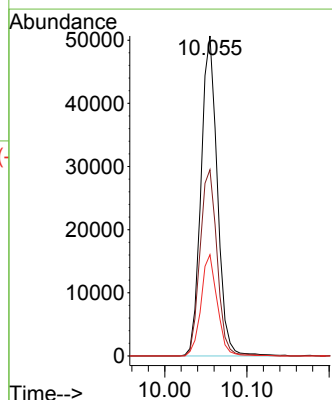
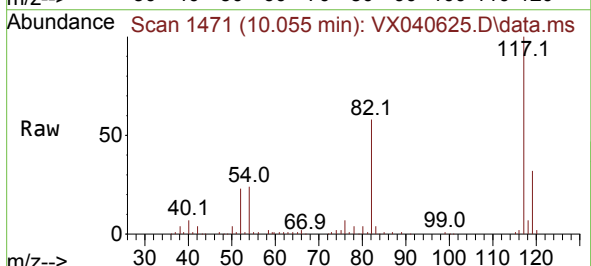
Tgt Ion:117 Resp: 69956

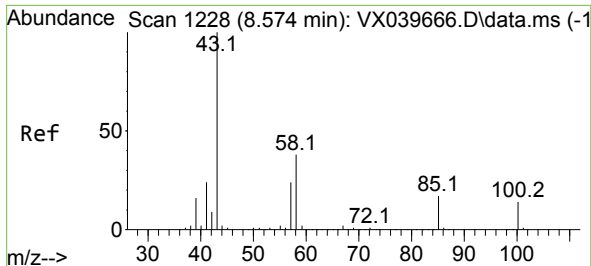
Ion Ratio Lower Upper

117 100

82 60.9 47.0 70.6

119 31.4 25.2 37.8

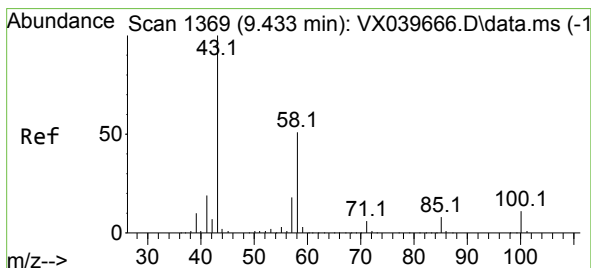
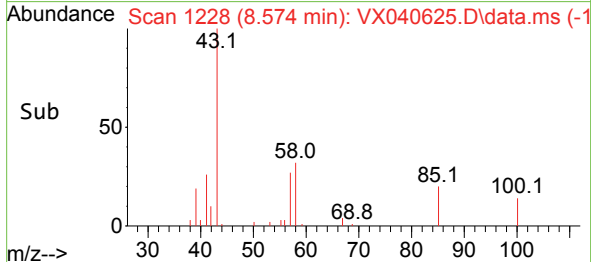
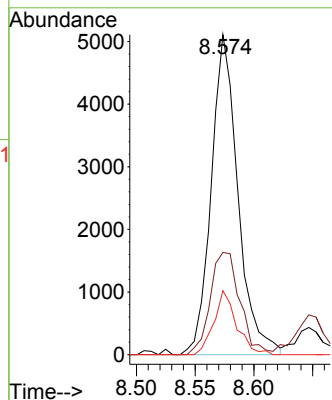
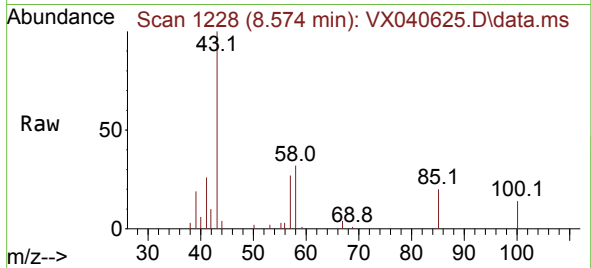




#58
4-Methyl-2-Pentanone
Concen: 5.193 ug/l
RT: 8.574 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

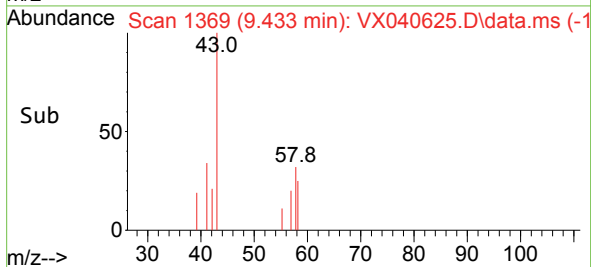
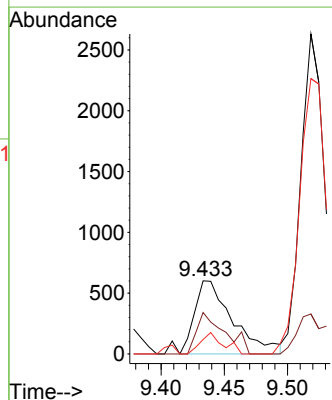
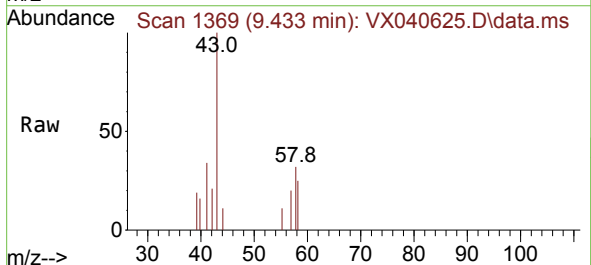
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(MARCH)

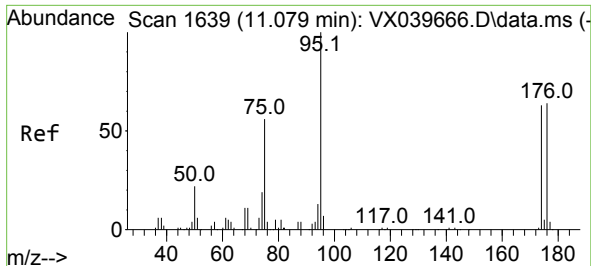
Tgt Ion:	43	Resp:	8089
Ion	Ratio	Lower	Upper
43	100		
58	34.3	30.1	45.1
85	16.7	13.9	20.9



#59
2-Hexanone
Concen: 1.005 ug/l
RT: 9.433 min Scan# 1369
Delta R.T. 0.000 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

Tgt Ion:	43	Resp:	1264
Ion	Ratio	Lower	Upper
43	100		
58	36.4	42.7	64.1#
57	14.2	14.8	22.2#

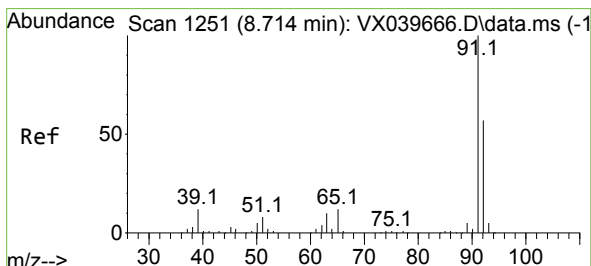
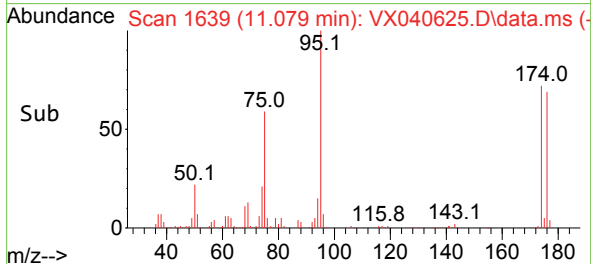
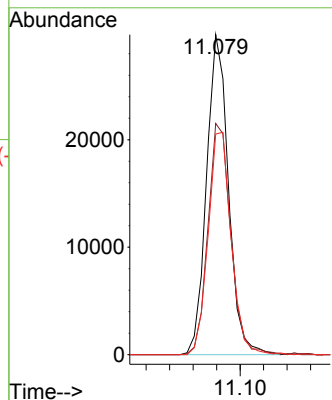
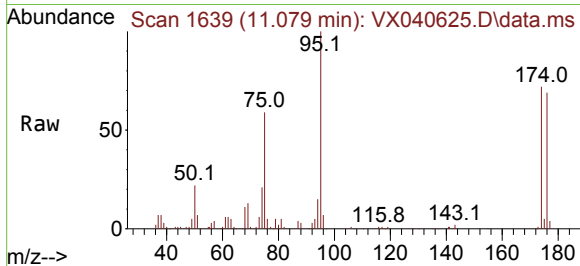




#60
4-Bromofluorobenzene
Concen: 32.130 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

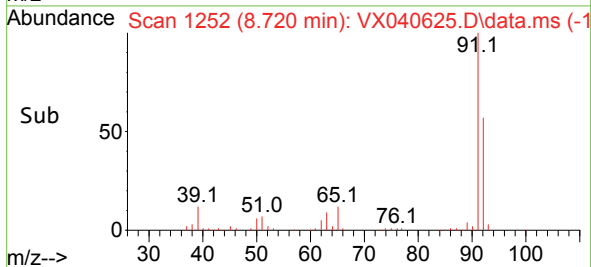
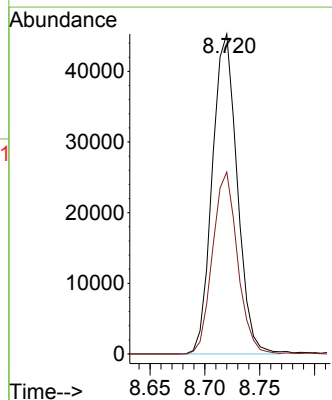
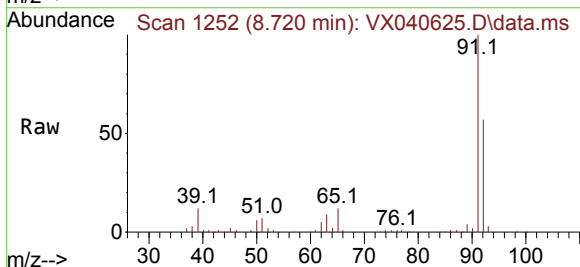
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(MARCH)

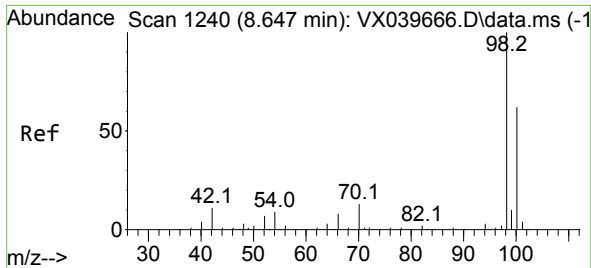
Tgt Ion: 95 Resp: 38555
Ion Ratio Lower Upper
95 100
174 75.3 55.4 83.2
176 72.8 52.6 78.8



#62
Toluene
Concen: 18.593 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.006 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

Tgt Ion: 91 Resp: 71637
Ion Ratio Lower Upper
91 100
92 56.8 45.9 68.9

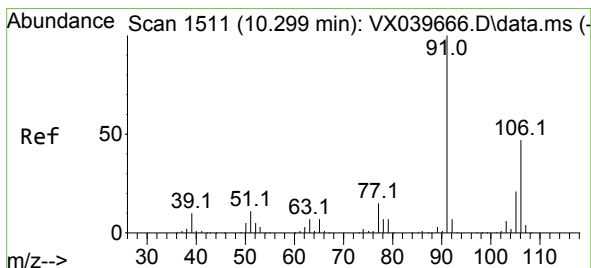
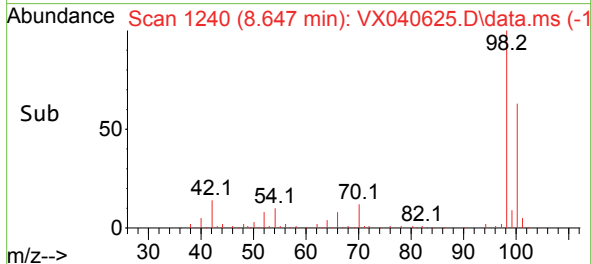
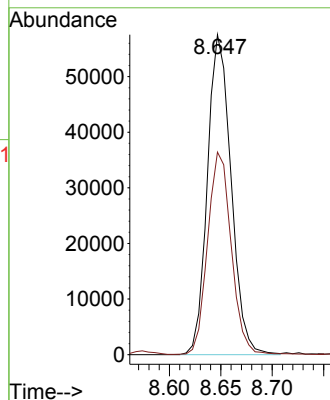
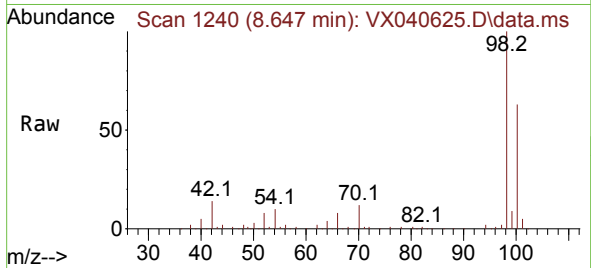




#63
Toluene-d8
Concen: 29.795 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

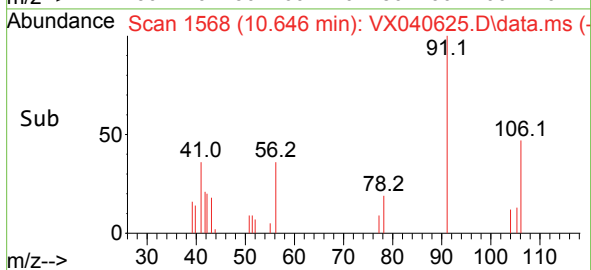
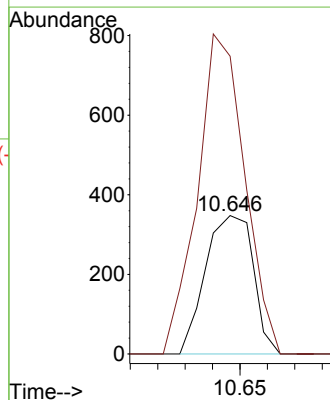
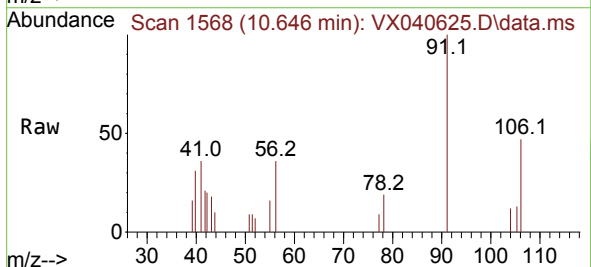
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(MARCH)

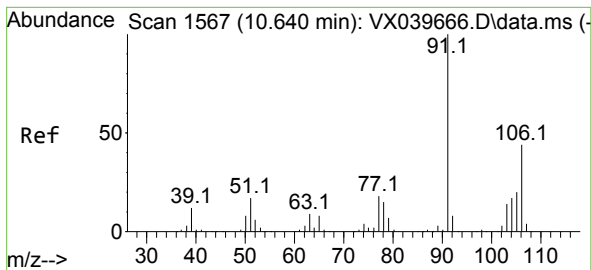
Tgt Ion: 98 Resp: 92112
Ion Ratio Lower Upper
98 100
100 63.1 51.0 76.4



#67
m/p-Xylenes
Concen: 0.257 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. 0.347 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

Tgt Ion:106 Resp: 421
Ion Ratio Lower Upper
106 100
91 228.5 169.4 254.0





#68

o-Xylene

Concen: 0.267 ug/l

RT: 10.646 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX040625.D

Acq: 08 Mar 2024 12:25

Instrument :

MSVOA_X

ClientSampleId :

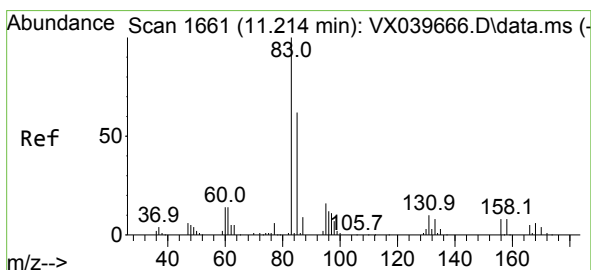
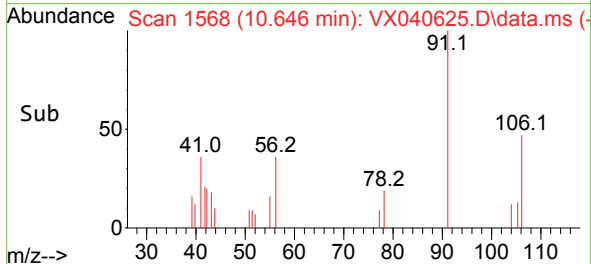
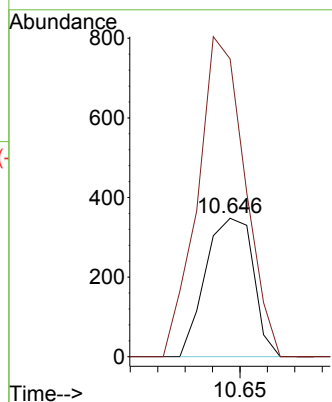
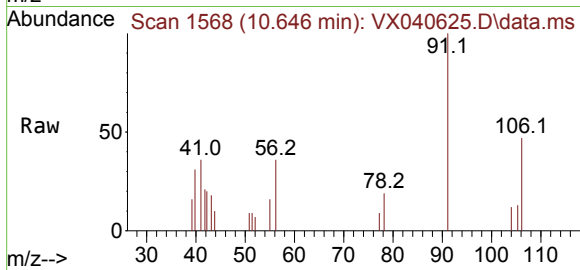
002-35TH-AVE(MARCH)

Tgt Ion:106 Resp: 421

Ion Ratio Lower Upper

106 100

91 228.5 111.2 333.6



#71

1,1,2,2-Tetrachloroethane

Concen: 0.558 ug/l

RT: 11.622 min Scan# 1728

Delta R.T. 0.408 min

Lab File: VX040625.D

Acq: 08 Mar 2024 12:25

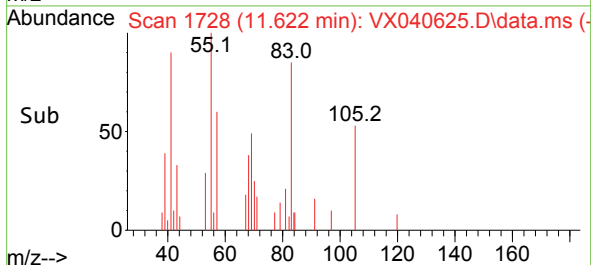
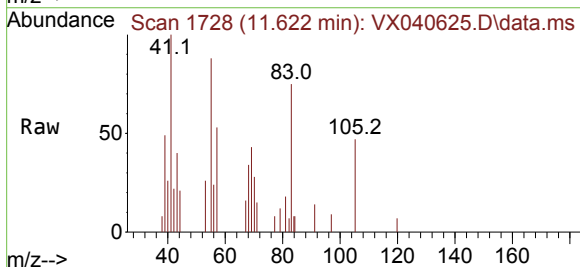
Tgt Ion: 83 Resp: 834

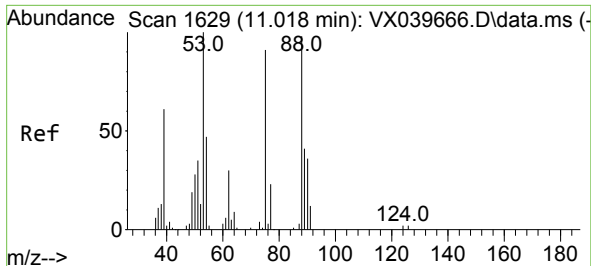
Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

85 5.0 32.5 97.4#





#77

t-1,4-Dichloro-2-butene

Concen: 53.867 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.061 min

Lab File: VX040625.D

Acq: 08 Mar 2024 12:25

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(MARCH)

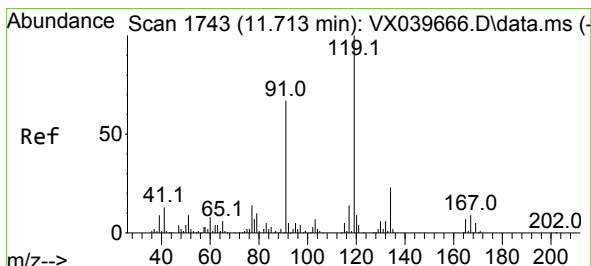
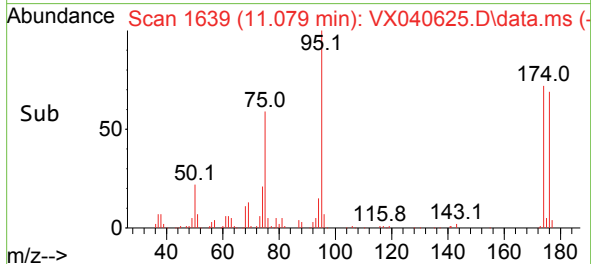
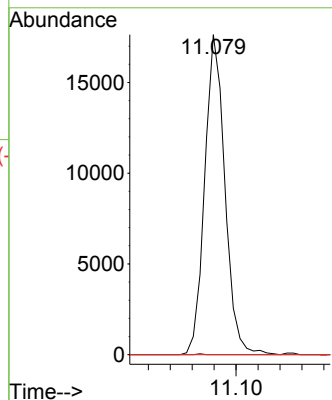
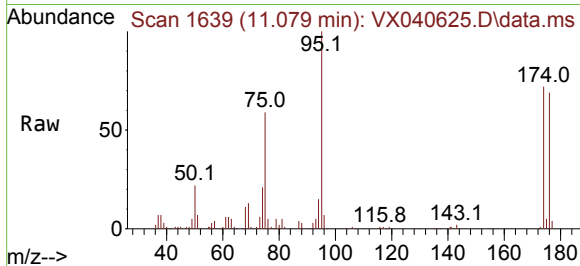
Tgt Ion: 75 Resp: 22533

Ion Ratio Lower Upper

75 100

53 0.0 46.9 140.8#

89 0.0 21.3 63.7#



#79

tert-butylbenzene

Concen: 0.945 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.293 min

Lab File: VX040625.D

Acq: 08 Mar 2024 12:25

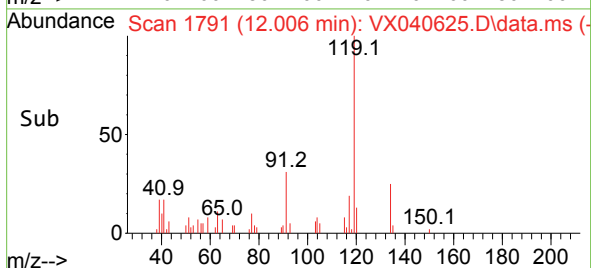
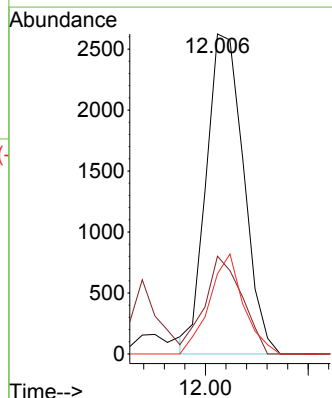
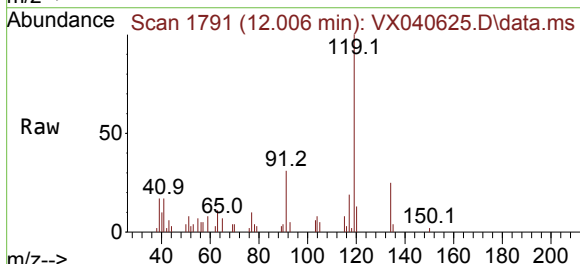
Tgt Ion: 119 Resp: 3312

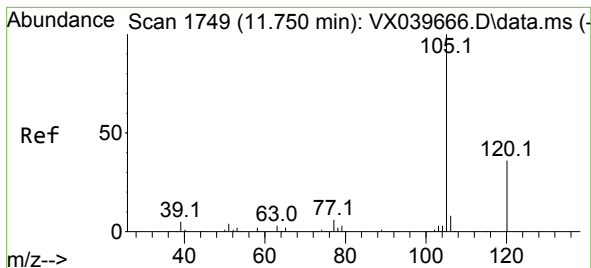
Ion Ratio Lower Upper

119 100

91 30.7 0.0 125.6

134 28.7 0.0 43.8





#80

1,2,4-Trimethylbenzene

Concen: 0.852 ug/l

RT: 11.756 min Scan# 1750

Delta R.T. 0.006 min

Lab File: VX040625.D

Acq: 08 Mar 2024 12:25

Instrument :

MSVOA_X

ClientSampleId :

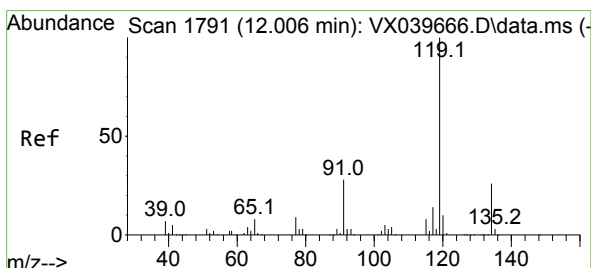
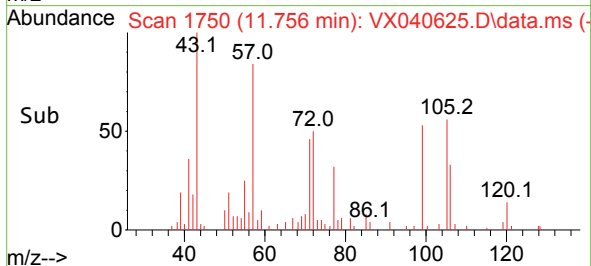
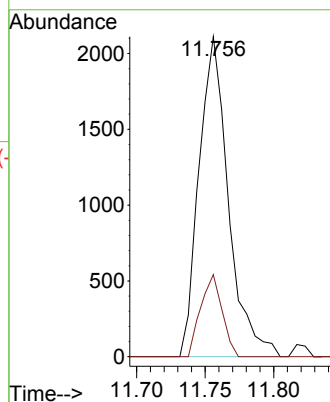
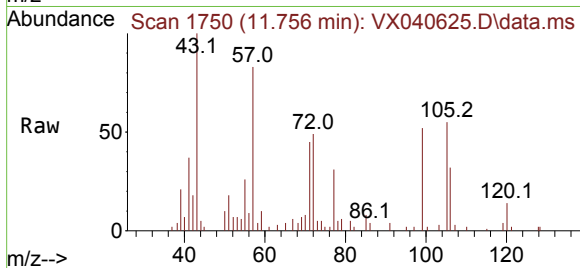
002-35TH-AVE(MARCH)

Tgt Ion:105 Resp: 3154

Ion Ratio Lower Upper

105 100

120 18.7 0.0 86.4



#82

p-Isopropyltoluene

Concen: 0.874 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX040625.D

Acq: 08 Mar 2024 12:25

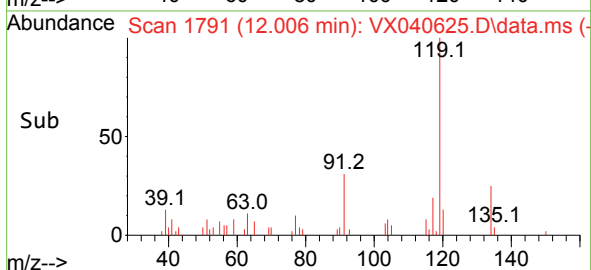
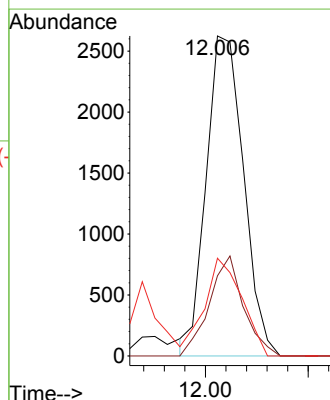
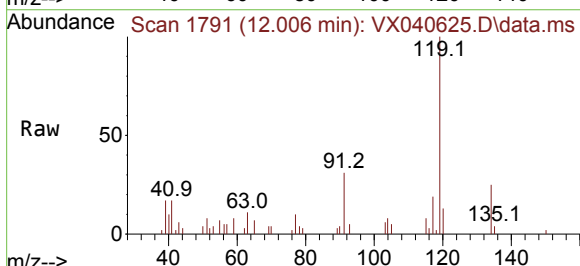
Tgt Ion:119 Resp: 3312

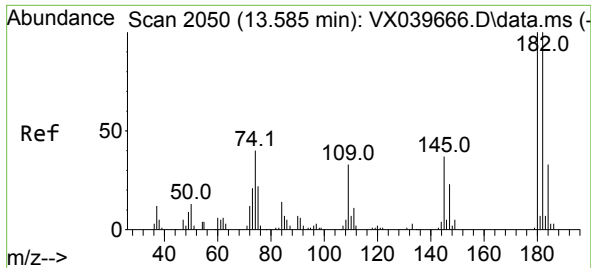
Ion Ratio Lower Upper

119 100

134 28.7 0.0 52.6

91 30.7 0.0 54.2

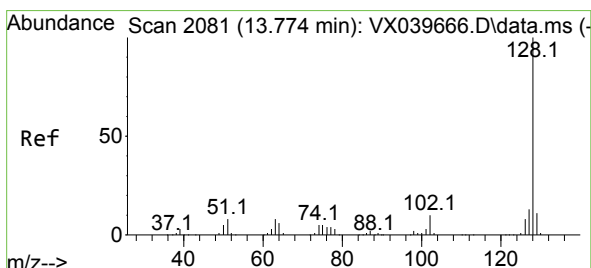
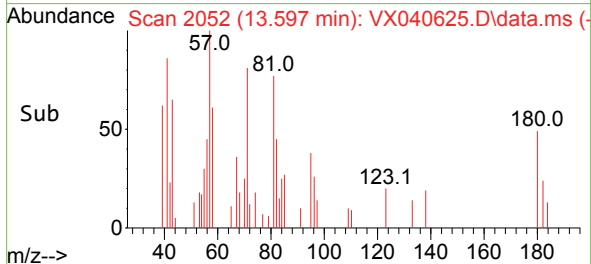
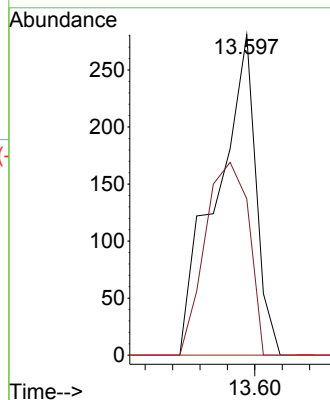
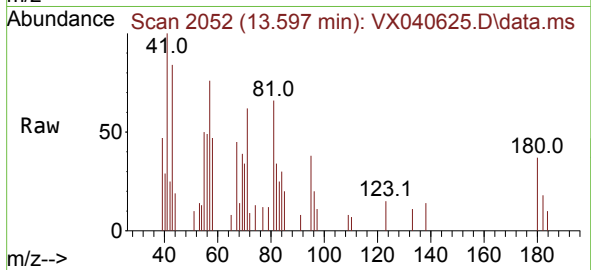




#89
1,2,4-Trichlorobenzene
Concen: 0.217 ug/l
RT: 13.597 min Scan# 2050
Delta R.T. 0.012 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(MARCH)

Tgt Ion:180 Resp: 279
Ion Ratio Lower Upper
180 100
182 67.0 74.5 111.7#
145 0.0 26.6 40.0#



#91
Naphthalene
Concen: 0.270 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX040625.D
Acq: 08 Mar 2024 12:25

Tgt Ion:128 Resp: 1132
Ion Ratio Lower Upper
128 100
127 11.7 10.2 15.2
129 15.6 8.6 12.8#

