

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051624\
 Data File : VX041564.D
 Acq On : 16 May 2024 15:29
 Operator : JC/MD
 Sample : P2502-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 17 02:40:33 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)

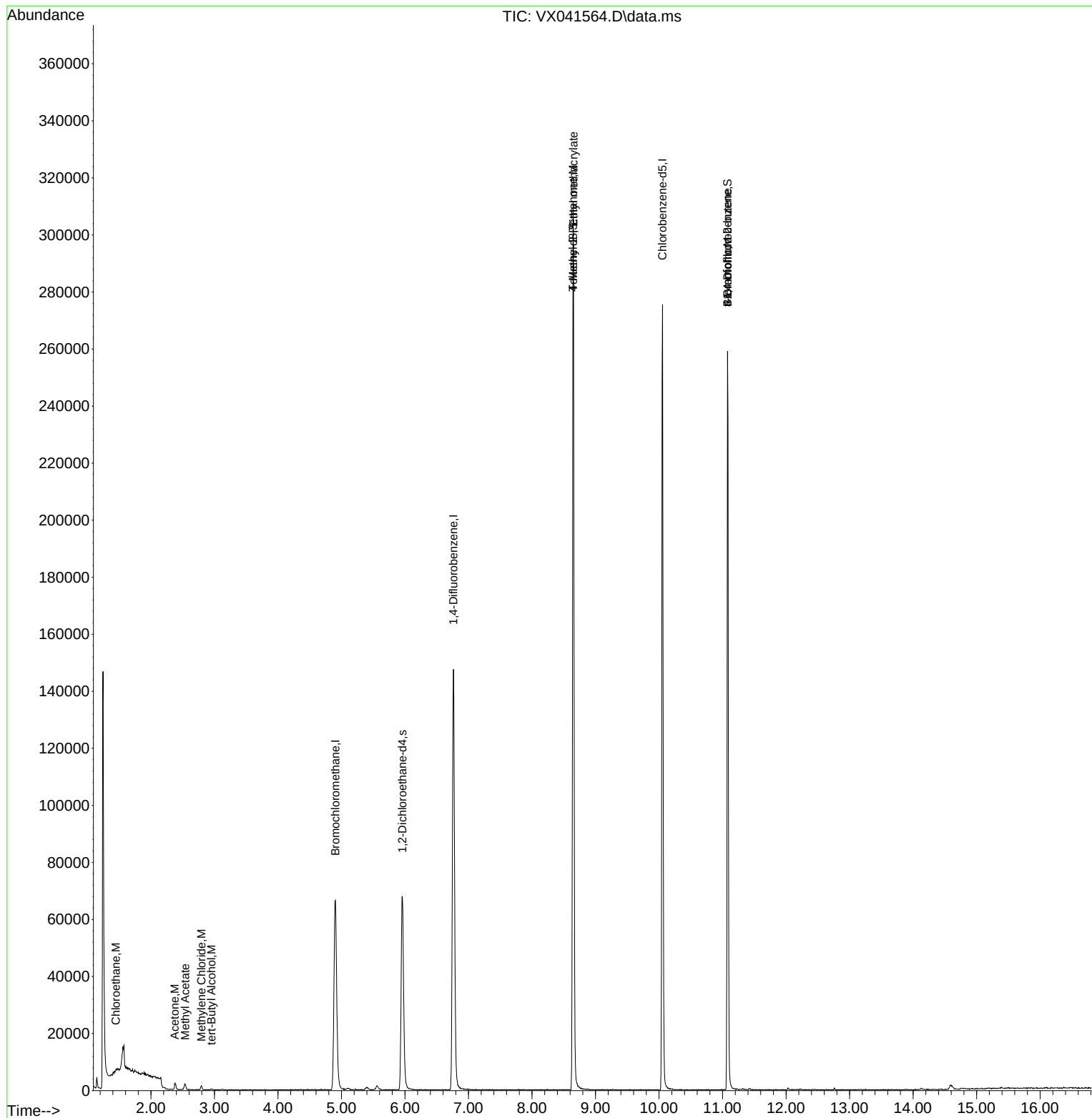
Internal Standards						
1) Bromochloromethane	4.903	128	30037	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	157098	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	129678	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	69767	29.495	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	98.300%
60) 4-Bromofluorobenzene	11.079	95	65509	32.360	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	107.867%
63) Toluene-d8	8.646	98	186764	33.598	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	112.000%#
Target Compounds						
					Qvalue	
6) Chloroethane	1.447	64	670	0.732	ug/l #	50
12) Methyl Acetate	2.538	43	661	0.286	ug/l #	50
15) Acetone	2.373	58	718	2.633	ug/l #	55
18) Methylene Chloride	2.794	84	507	0.277	ug/l #	91
23) tert-Butyl Alcohol	2.952	59	334	0.773	ug/l #	100
51) Ethyl methacrylate	8.653	69	602	0.220	ug/l	82
56) Bromoform	11.079	173	521	0.336	ug/l #	1
58) 4-Methyl-2-Pentanone	8.646	43	816	0.344	ug/l #	1
77) t-1,4-Dichloro-2-butene	11.079	75	32803	47.269	ug/l #	1

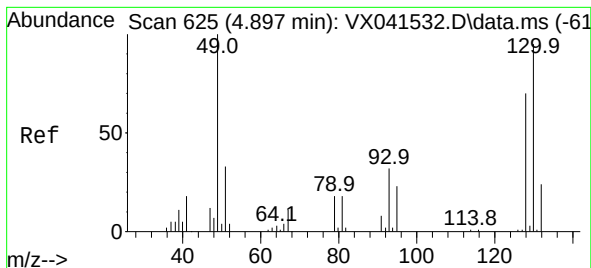
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
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Quant Time: May 17 02:40:33 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: 4.903 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX041564.D

Acq: 16 May 2024 15:29

Instrument :

MSVOA_X

ClientSampleId :

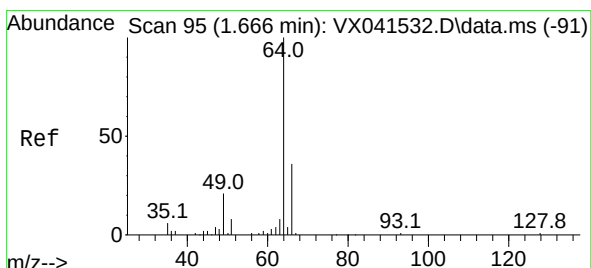
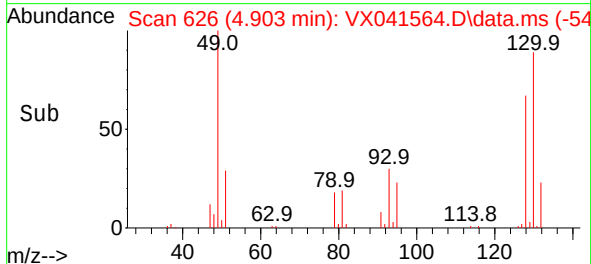
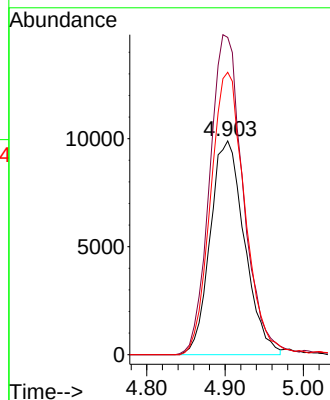
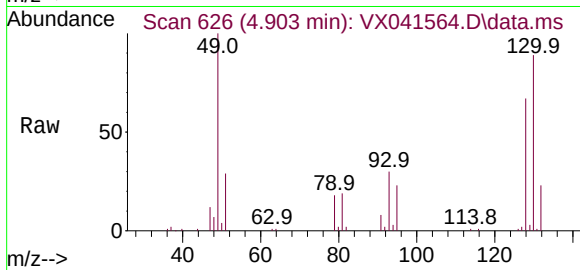
Tgt Ion:128 Resp: 30037

Ion Ratio Lower Upper

128 100

49 147.1 0.0 361.5

130 132.0 0.0 324.3



#6

Chloroethane

Concen: 0.732 ug/l

RT: 1.447 min Scan# 59

Delta R.T. -0.220 min

Lab File: VX041564.D

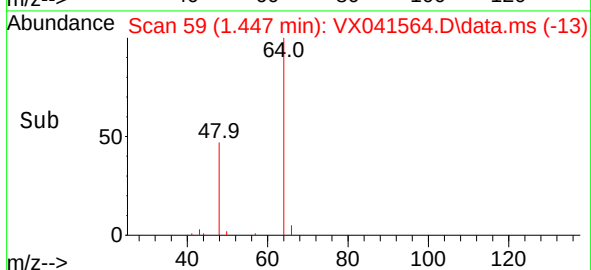
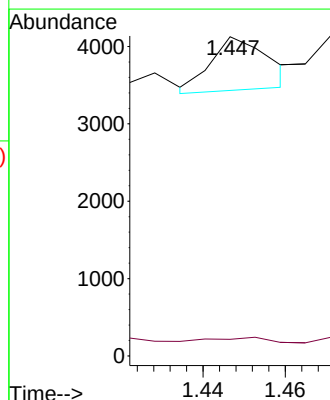
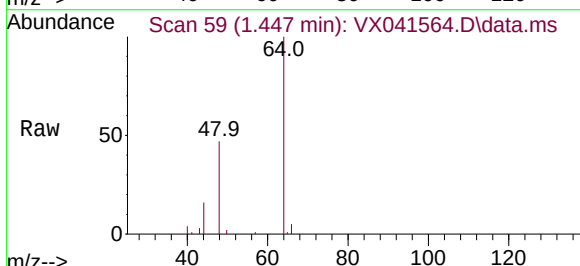
Acq: 16 May 2024 15:29

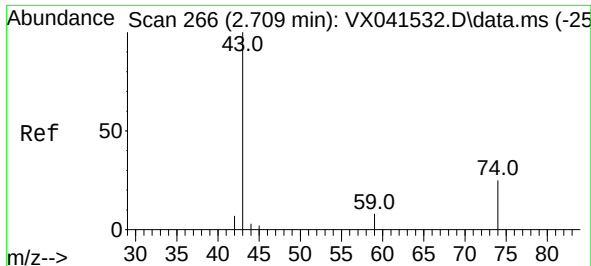
Tgt Ion: 64 Resp: 670

Ion Ratio Lower Upper

64 100

66 6.1 28.6 42.8#





#12

Methyl Acetate

Concen: 0.286 ug/l

RT: 2.538 min Scan# 21

Delta R.T. -0.171 min

Lab File: VX041564.D

Acq: 16 May 2024 15:29

Instrument :

MSVOA_X

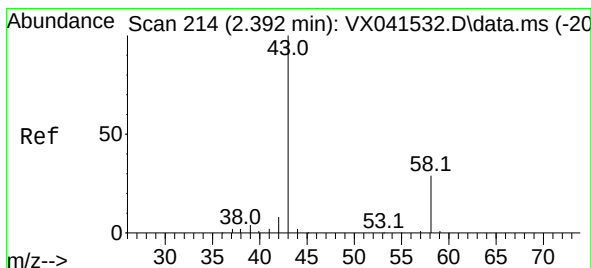
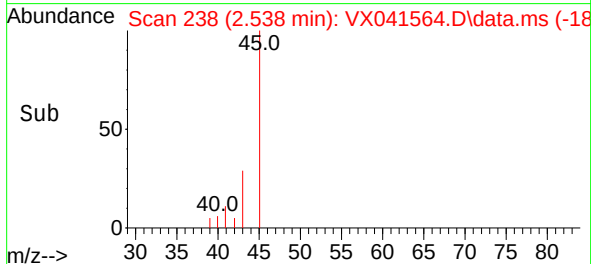
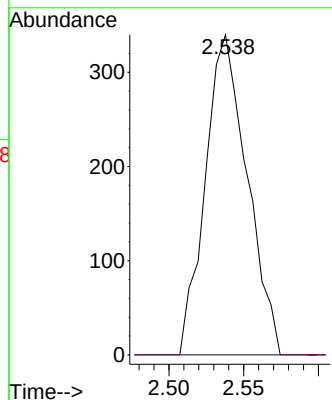
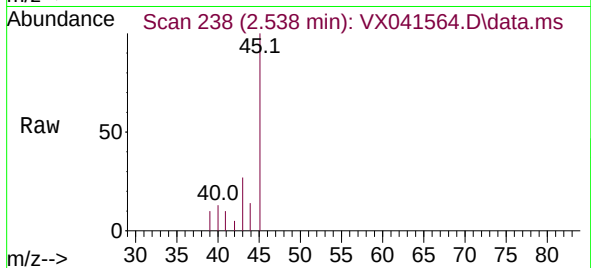
ClientSampleId :

Tgt Ion: 43 Resp: 661

Ion Ratio Lower Upper

43 100

74 0.0 19.9 29.9#



#15

Acetone

Concen: 2.633 ug/l

RT: 2.373 min Scan# 211

Delta R.T. -0.018 min

Lab File: VX041564.D

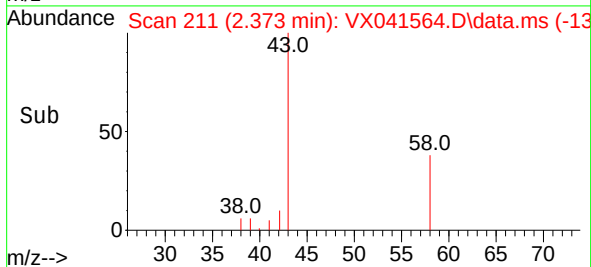
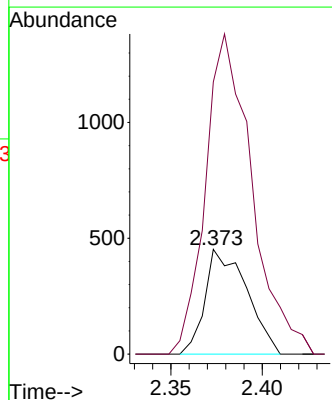
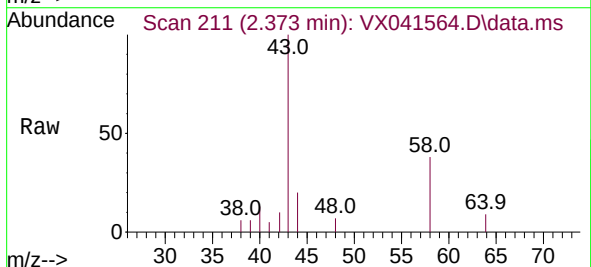
Acq: 16 May 2024 15:29

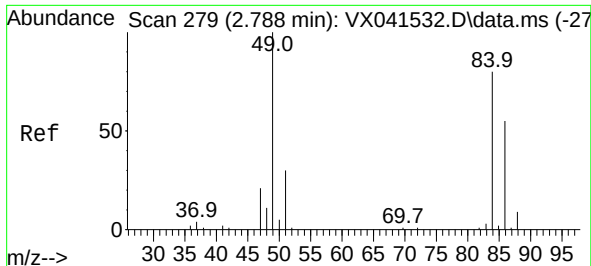
Tgt Ion: 58 Resp: 718

Ion Ratio Lower Upper

58 100

43 247.1 274.0 411.0#





#18

Methylene Chloride

Concen: 0.277 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

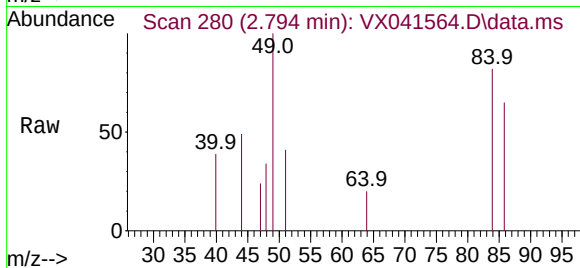
Lab File: VX041564.D

Acq: 16 May 2024 15:29

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 84 Resp: 507

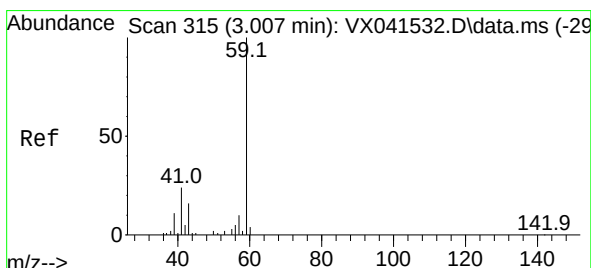
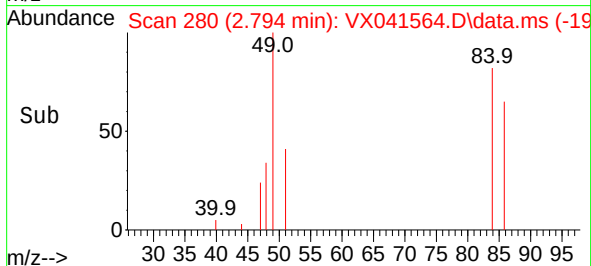
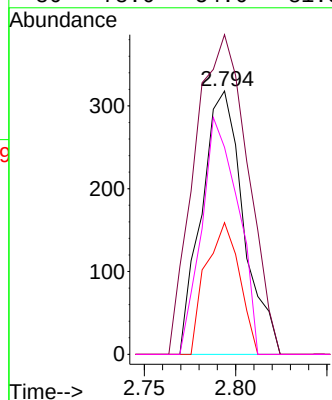
Ion Ratio Lower Upper

84 100

49 121.4 99.8 149.8

51 50.0 30.2 45.4#

86 78.6 54.6 81.8



#23

tert-Butyl Alcohol

Concen: 0.773 ug/l

RT: 2.952 min Scan# 306

Delta R.T. -0.055 min

Lab File: VX041564.D

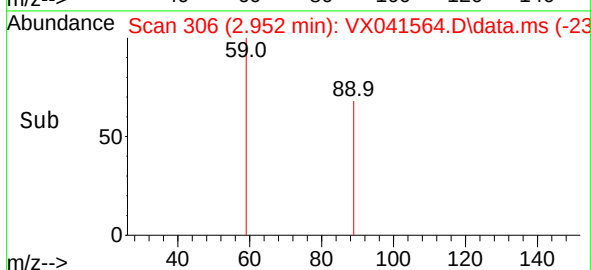
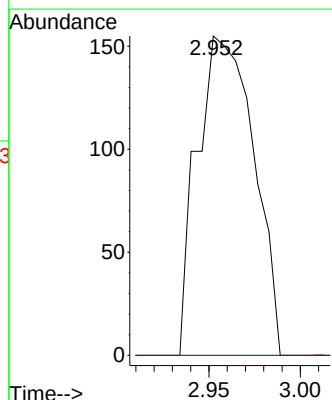
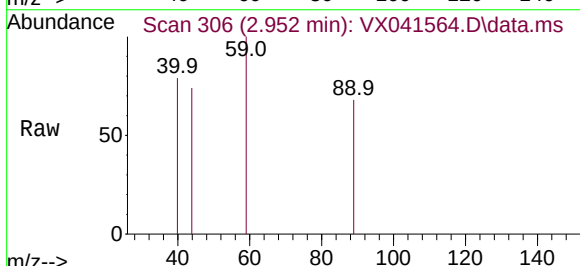
Acq: 16 May 2024 15:29

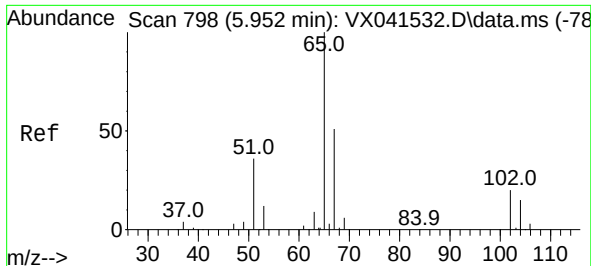
Tgt Ion: 59 Resp: 334

Ion Ratio Lower Upper

59 100

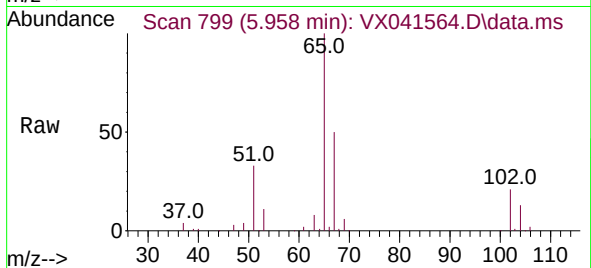
52 0.0 0.0 0.0



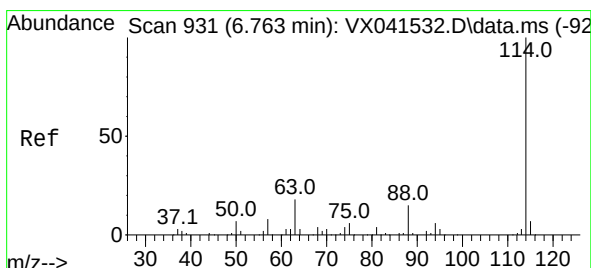
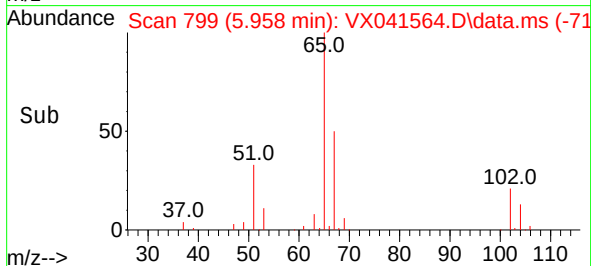
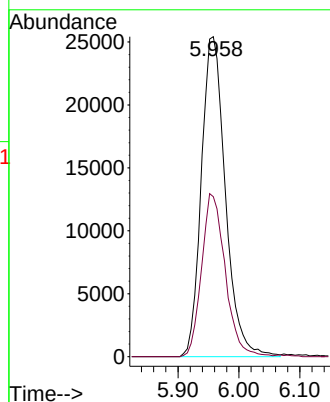


#27
1,2-Dichloroethane-d4
Concen: 29.495 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.006 min
Lab File: VX041564.D
Acq: 16 May 2024 15:29

Instrument :
MSVOA_X
ClientSampleId :

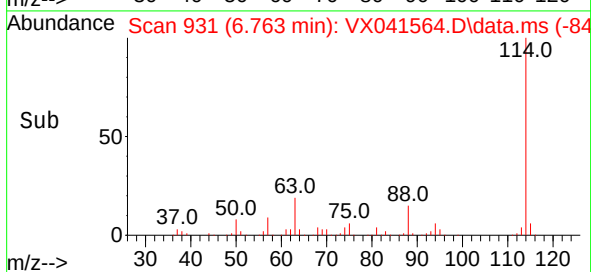
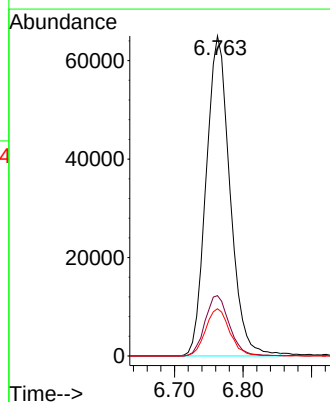
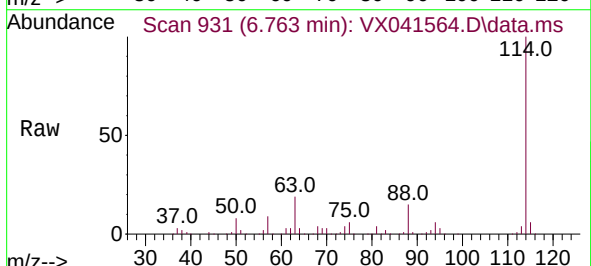


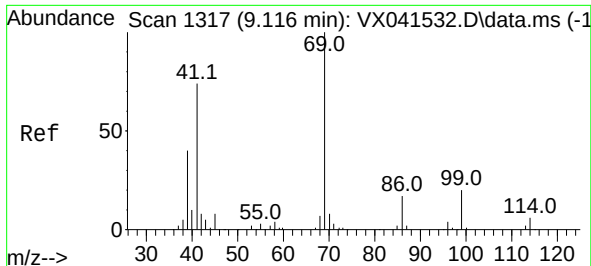
Tgt Ion: 65 Resp: 69767
Ion Ratio Lower Upper
65 100
67 50.0 40.8 61.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX041564.D
Acq: 16 May 2024 15:29

Tgt Ion: 114 Resp: 157098
Ion Ratio Lower Upper
114 100
63 19.2 15.4 23.0
88 14.9 12.2 18.2





#51

Ethyl methacrylate

Concen: 0.220 ug/l

RT: 8.653 min Scan# 11

Delta R.T. -0.464 min MSVOA_X

Lab File: VX041564.D

Acq: 16 May 2024 15:29

Instrument :

MSVOA_X

ClientSampleId :

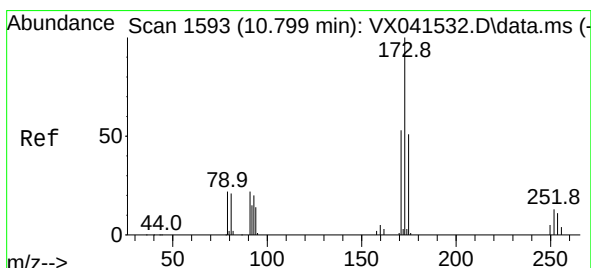
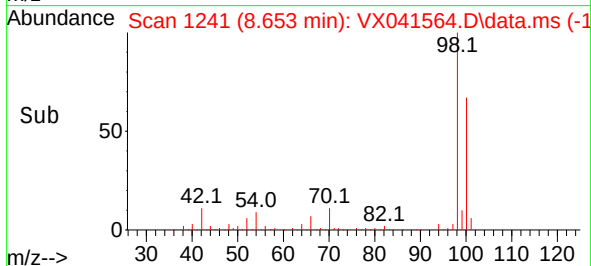
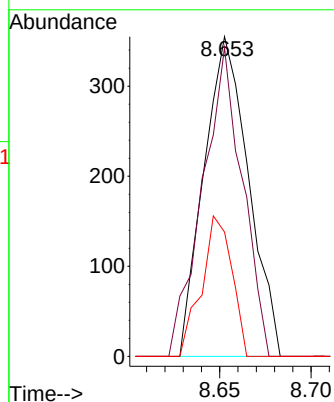
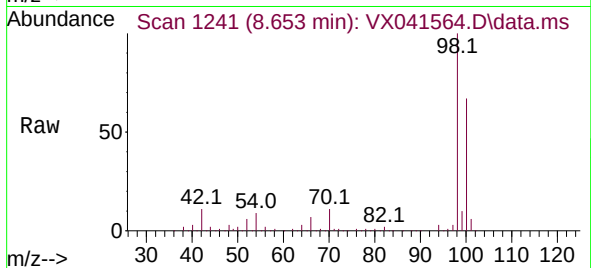
Tgt Ion: 69 Resp: 602

Ion Ratio Lower Upper

69 100

41 96.6 37.1 111.3

39 38.9 20.2 60.6



#56

Bromoform

Concen: 0.336 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.280 min

Lab File: VX041564.D

Acq: 16 May 2024 15:29

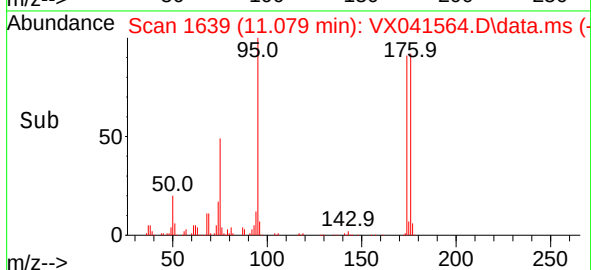
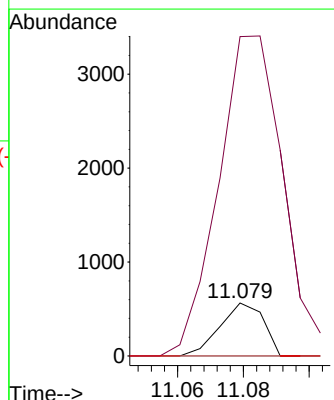
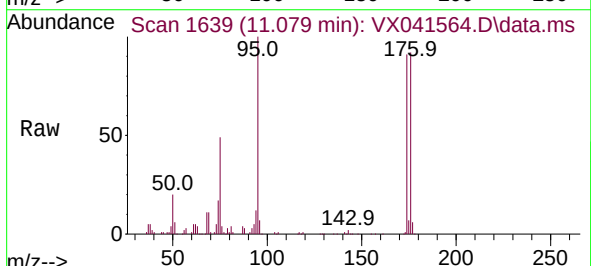
Tgt Ion:173 Resp: 521

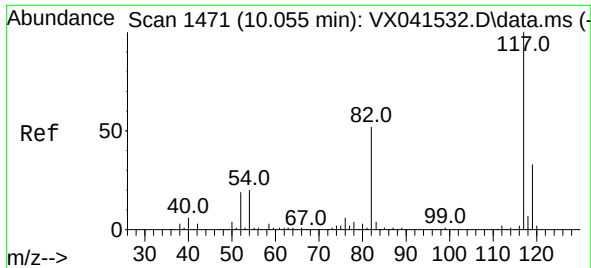
Ion Ratio Lower Upper

173 100

175 895.4 39.0 58.6#

254 0.0 10.3 15.5#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. -0.000 min

Lab File: VX041564.D

Acq: 16 May 2024 15:29

Instrument :

MSVOA_X

ClientSampleId :

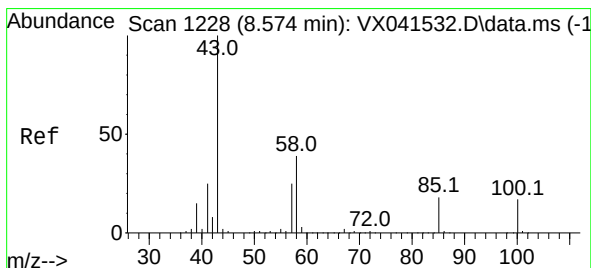
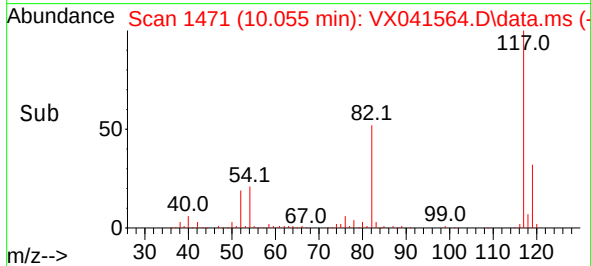
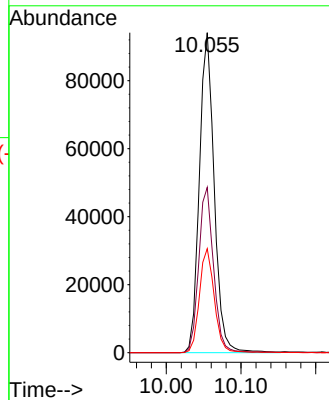
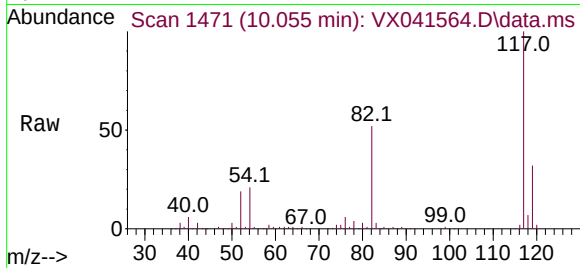
Tgt Ion:117 Resp: 129678

Ion Ratio Lower Upper

117 100

82 51.5 41.7 62.5

119 32.5 25.7 38.5



#58

4-Methyl-2-Pentanone

Concen: 0.344 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. 0.073 min

Lab File: VX041564.D

Acq: 16 May 2024 15:29

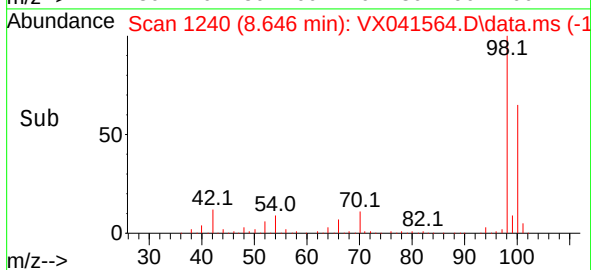
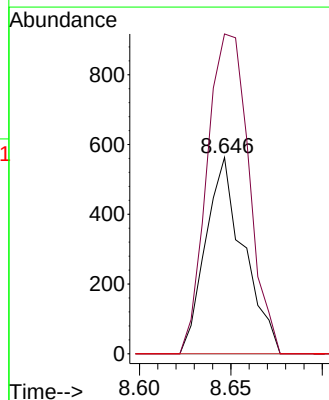
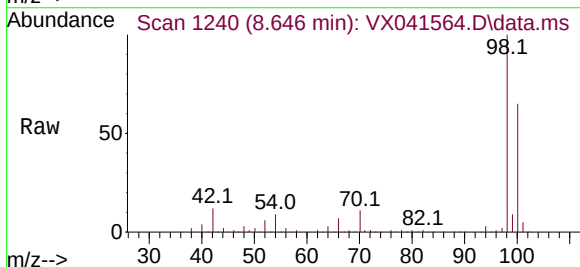
Tgt Ion: 43 Resp: 816

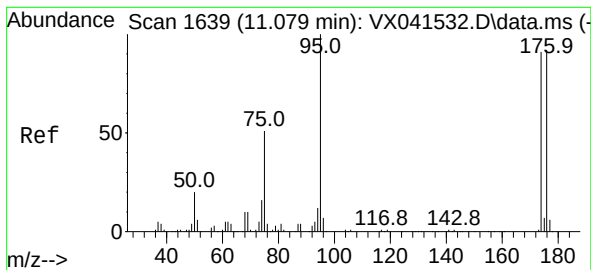
Ion Ratio Lower Upper

43 100

58 179.8 30.2 45.4#

85 0.0 14.6 21.8#





#60

4-Bromofluorobenzene

Concen: 32.360 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX041564.D

Acq: 16 May 2024 15:29

Instrument :

MSVOA_X

ClientSampleId :

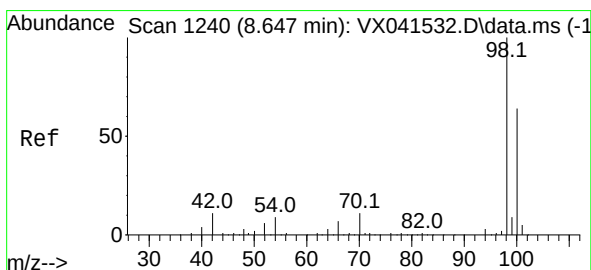
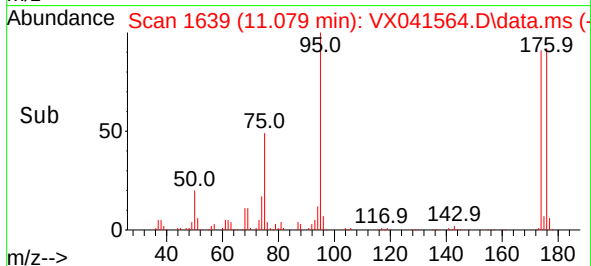
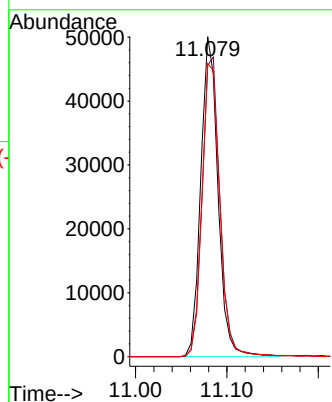
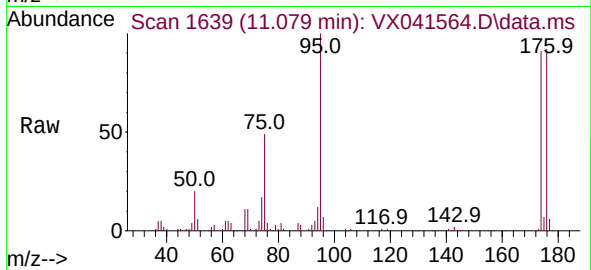
Tgt Ion: 95 Resp: 65509

Ion Ratio Lower Upper

95 100

174 97.0 76.6 115.0

176 94.6 75.4 113.0



#63

Toluene-d8

Concen: 33.598 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX041564.D

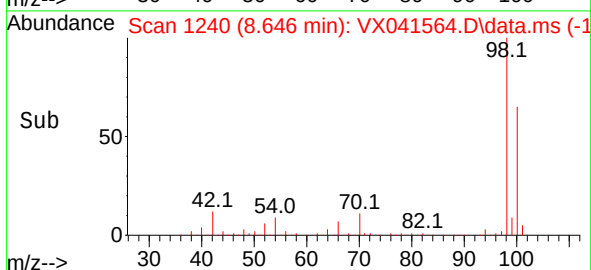
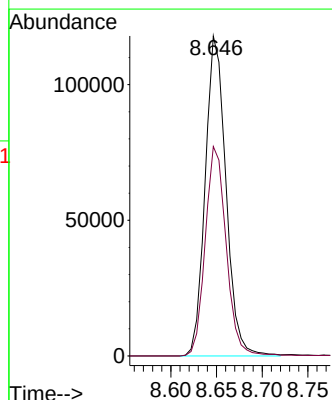
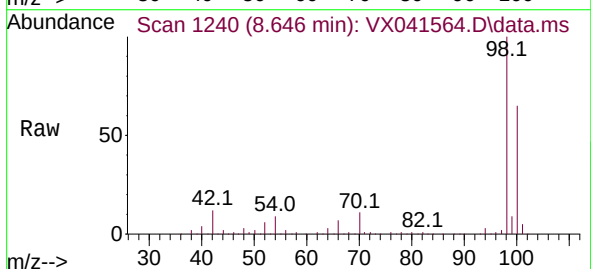
Acq: 16 May 2024 15:29

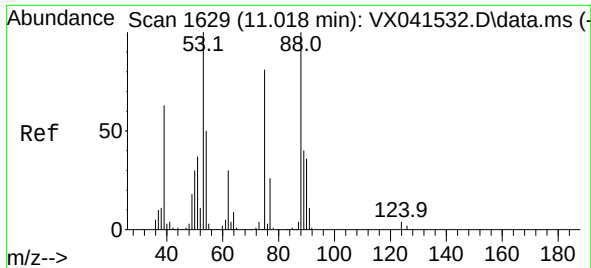
Tgt Ion: 98 Resp: 186764

Ion Ratio Lower Upper

98 100

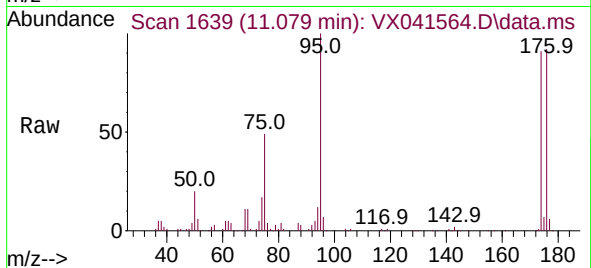
100 65.8 53.1 79.7





#77
t-1,4-Dichloro-2-butene
Concen: 47.269 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX041564.D
Acq: 16 May 2024 15:29

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion: 75 Resp: 32803
Ion Ratio Lower Upper
75 100
53 0.0 61.8 185.3#
89 0.0 24.9 74.7#

