

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081624\
 Data File : VX043071.D
 Acq On : 16 Aug 2024 13:15
 Operator : JC/MD
 Sample : P3606-06DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 16 23:55:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 13 13:22:56 2024
 Response via : Initial Calibration

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

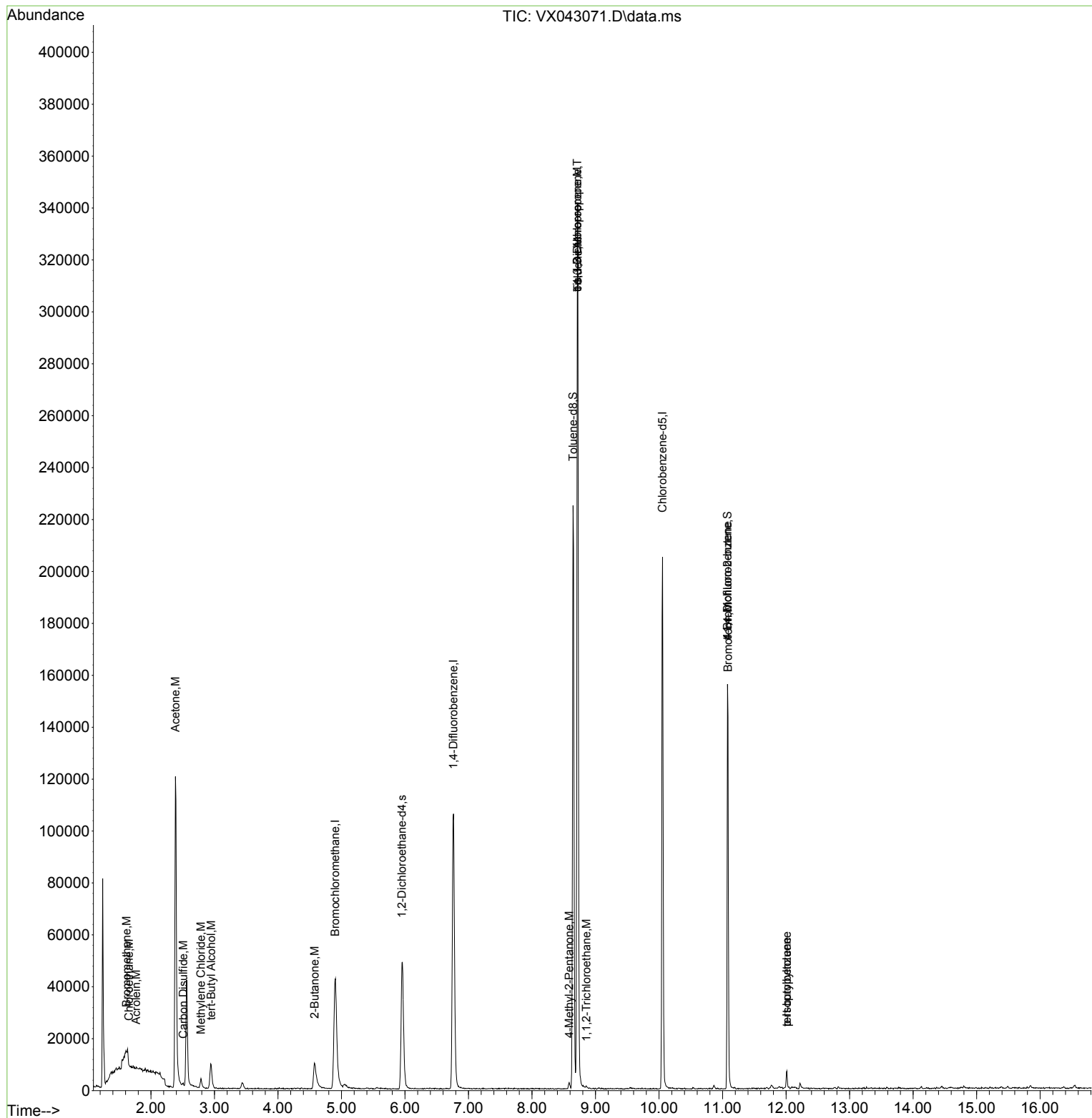
Internal Standards						
1) Bromochloromethane	4.898	128	19837	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	112998	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	97115	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	44911	27.969	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	93.233%
60) 4-Bromofluorobenzene	11.079	95	43316	26.274	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	87.567%
63) Toluene-d8	8.647	98	135451	30.362	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	101.200%
Target Compounds						
					Qvalue	
5) Bromomethane	1.618	94	297	0.715	ug/l #	50
6) Chloroethane	1.654	64	866	2.055	ug/l #	43
13) Acrolein	1.764	56	100	0.246	ug/l	90
15) Acetone	2.386	58	43698	167.044	ug/l	81
16) Carbon Disulfide	2.508	76	1333	0.330	ug/l #	77
18) Methylene Chloride	2.788	84	1555	0.982	ug/l #	85
23) tert-Butyl Alcohol	2.947	59	5726	14.024	ug/l #	100
30) 2-Butanone	4.574	43	18922	15.227	ug/l	97
48) t-1,3-Dichloropropene	8.714	75	1475	0.694	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	1475	0.636	ug/l #	1
50) 1,1,2-Trichloroethane	8.854	97	434	0.328	ug/l #	15
56) Bromoform	11.085	173	284	0.283	ug/l #	1
58) 4-Methyl-2-Pentanone	8.586	43	1282	0.571	ug/l	92
62) Toluene	8.720	91	229723	41.410	ug/l	98
77) t-1,4-Dichloro-2-butene	11.079	75	22072	26.357	ug/l #	11
79) tert-butylbenzene	12.012	119	3334	0.709	ug/l	62
82) p-Isopropyltoluene	12.012	119	3334	0.694	ug/l	97

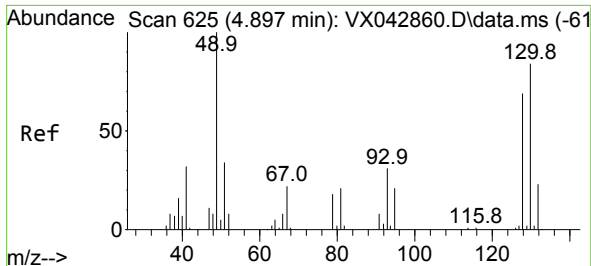
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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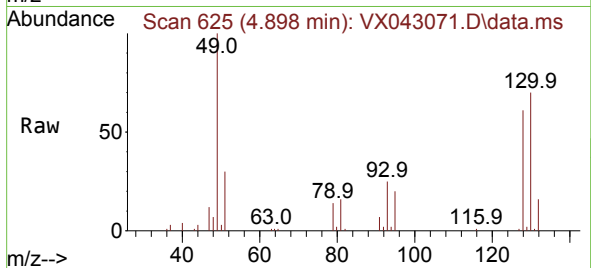
Quant Time: Aug 16 23:55:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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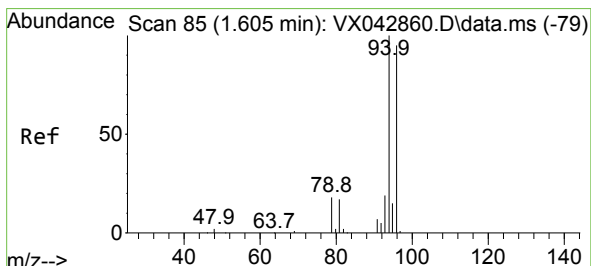
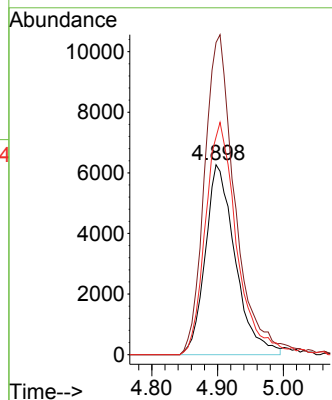
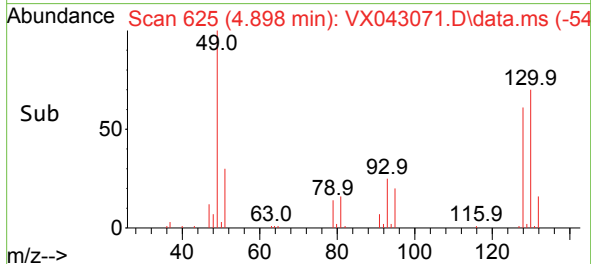


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX043071.D
Acq: 16 Aug 2024 13:15

Instrument :
MSVOA_X
ClientSampleId :

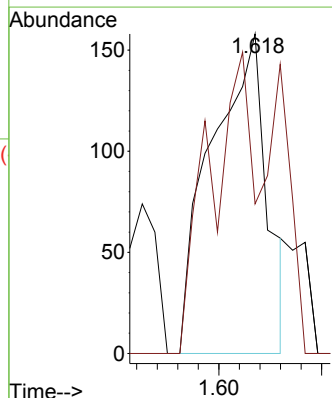
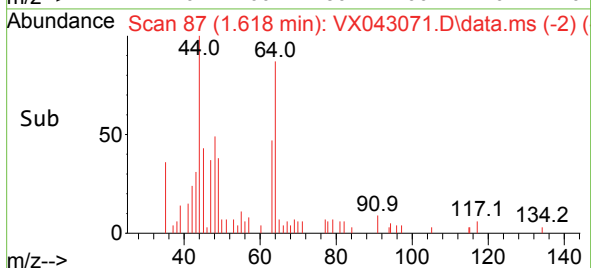
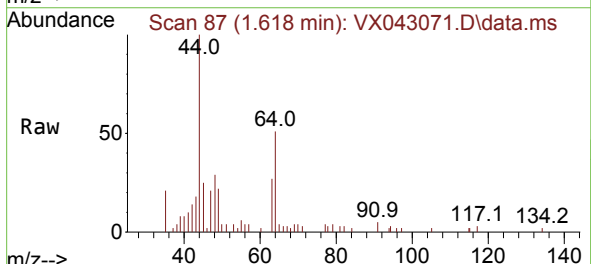


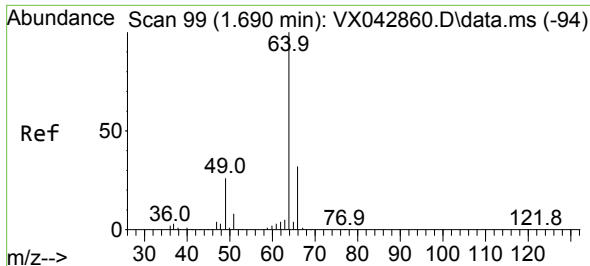
Tgt Ion:128 Resp: 19837
Ion Ratio Lower Upper
128 100
49 172.6 0.0 400.5
130 127.5 0.0 333.0



#5
Bromomethane
Concen: 0.715 ug/l
RT: 1.618 min Scan# 87
Delta R.T. 0.018 min
Lab File: VX043071.D
Acq: 16 Aug 2024 13:15

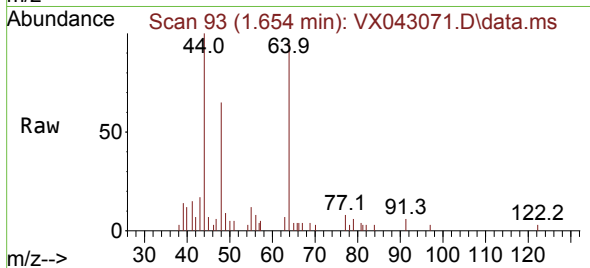
Tgt Ion: 94 Resp: 297
Ion Ratio Lower Upper
94 100
96 46.8 76.2 114.4#



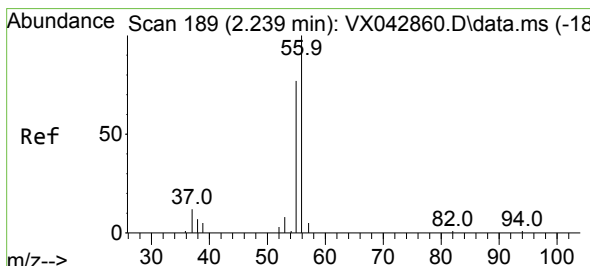
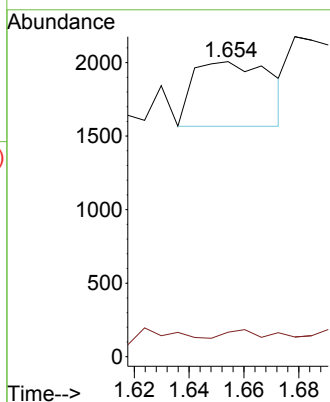
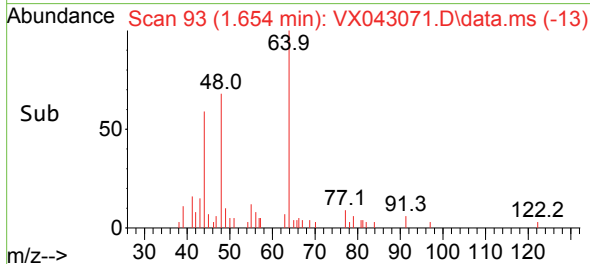


#6
Chloroethane
Concen: 2.055 ug/l
RT: 1.654 min Scan# 91
Delta R.T. -0.012 min
Lab File: VX043071.D
Acq: 16 Aug 2024 13:15

Instrument :
MSVOA_X
ClientSampleId :

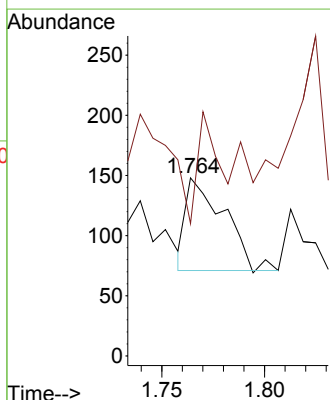
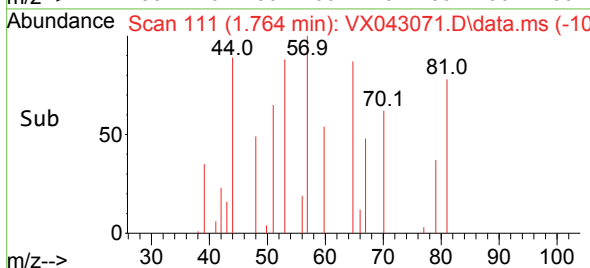
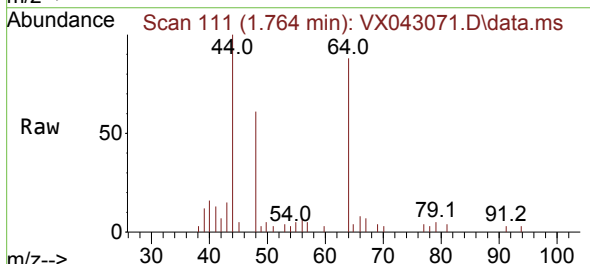


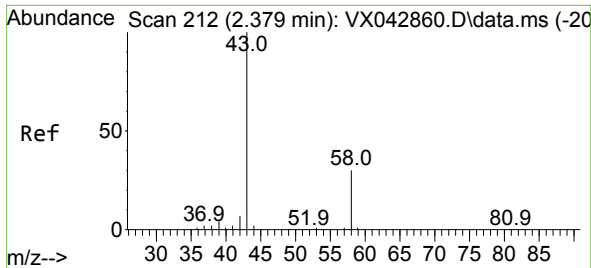
Tgt Ion: 64 Resp: 866
Ion Ratio Lower Upper
64 100
66 0.7 25.9 38.9#



#13
Acrolein
Concen: 0.246 ug/l
RT: 1.764 min Scan# 111
Delta R.T. -0.476 min
Lab File: VX043071.D
Acq: 16 Aug 2024 13:15

Tgt Ion: 56 Resp: 100
Ion Ratio Lower Upper
56 100
55 67.0 60.6 90.8





#15

Acetone

Concen: 167.044 ug/l

RT: 2.386 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX043071.D

Acq: 16 Aug 2024 13:15

Instrument :

MSVOA_X

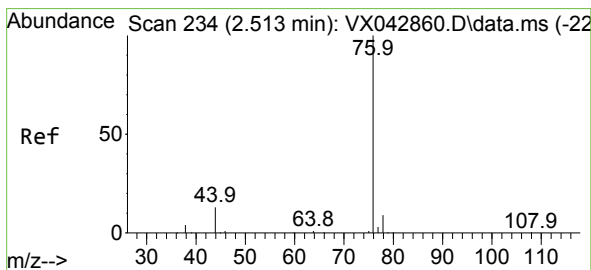
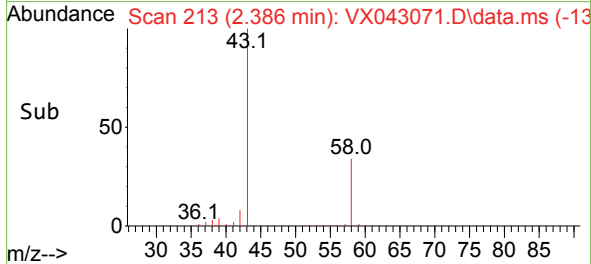
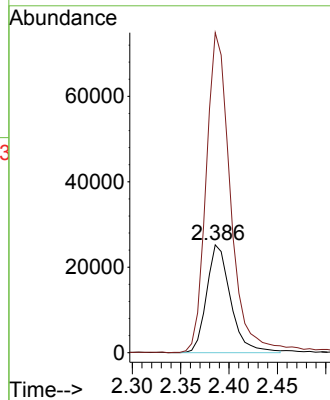
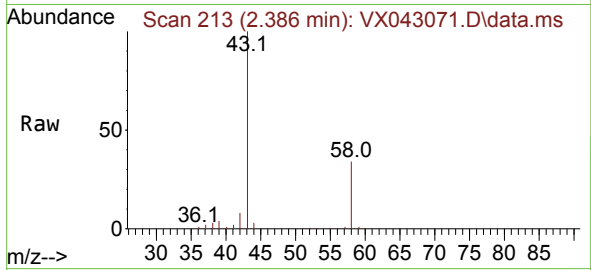
ClientSampleId :

Tgt Ion: 58 Resp: 43698

Ion Ratio Lower Upper

58 100

43 296.5 269.9 404.9



#16

Carbon Disulfide

Concen: 0.330 ug/l

RT: 2.508 min Scan# 233

Delta R.T. 0.006 min

Lab File: VX043071.D

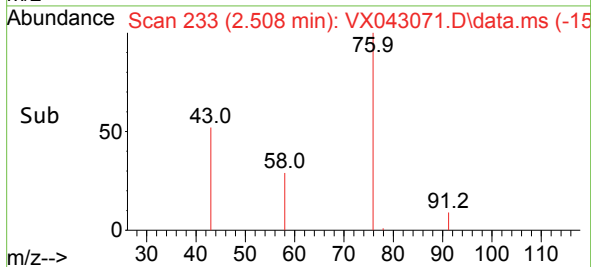
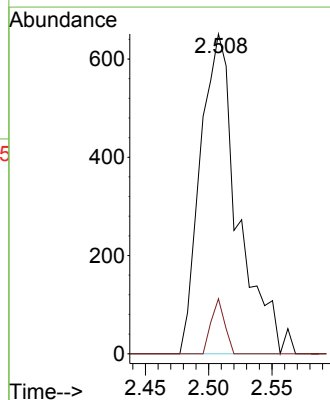
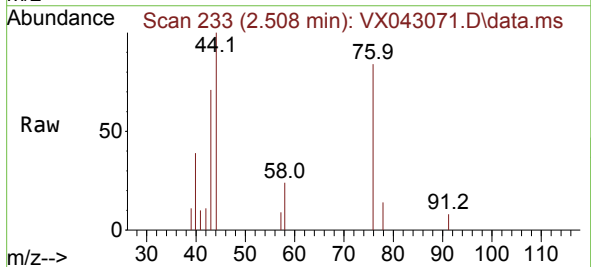
Acq: 16 Aug 2024 13:15

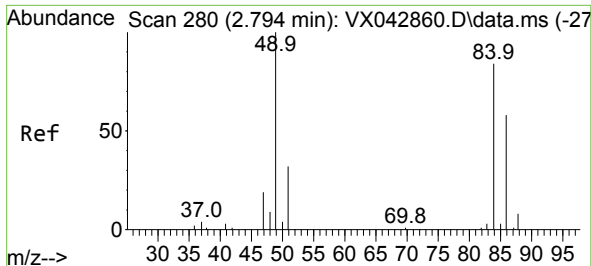
Tgt Ion: 76 Resp: 1333

Ion Ratio Lower Upper

76 100

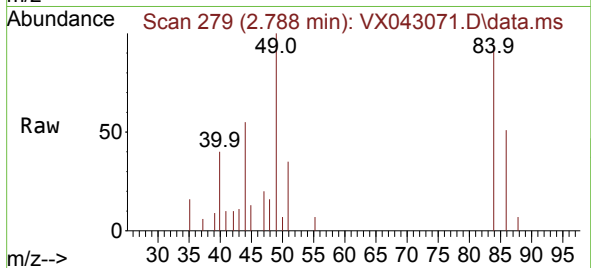
78 17.2 7.1 10.7#



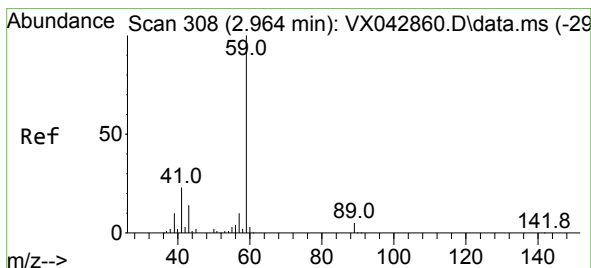
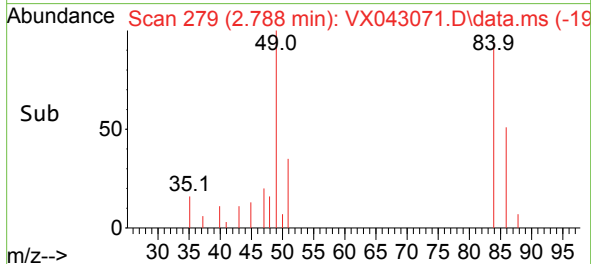
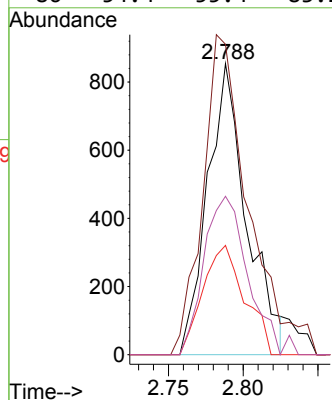


#18
Methylene Chloride
Concen: 0.982 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX043071.D
Acq: 16 Aug 2024 13:15

Instrument :
MSVOA_X
ClientSampleId :

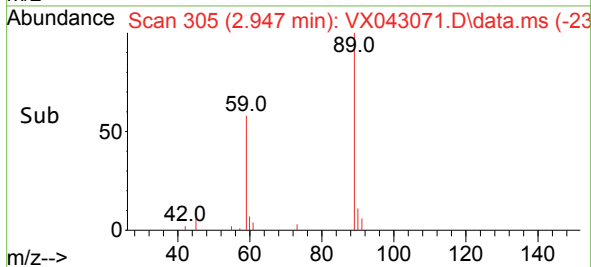
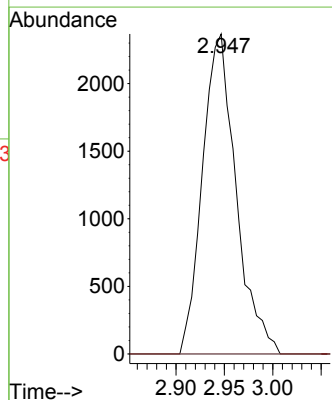
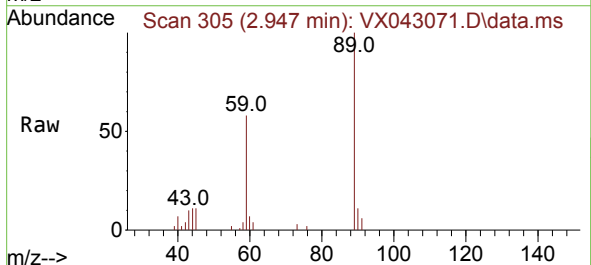


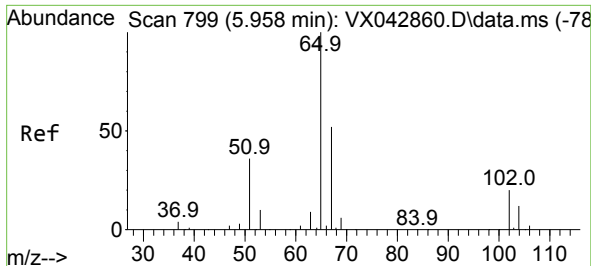
Tgt Ion: 84 Resp: 1555
Ion Ratio Lower Upper
84 100
49 99.9 95.0 142.6
51 37.6 30.1 45.1
86 54.4 55.4 83.2#



#23
tert-Butyl Alcohol
Concen: 14.024 ug/l
RT: 2.947 min Scan# 305
Delta R.T. -0.049 min
Lab File: VX043071.D
Acq: 16 Aug 2024 13:15

Tgt Ion: 59 Resp: 5726
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#





#27

1,2-Dichloroethane-d4

Concen: 27.969 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX043071.D

Acq: 16 Aug 2024 13:15

Instrument :

MSVOA_X

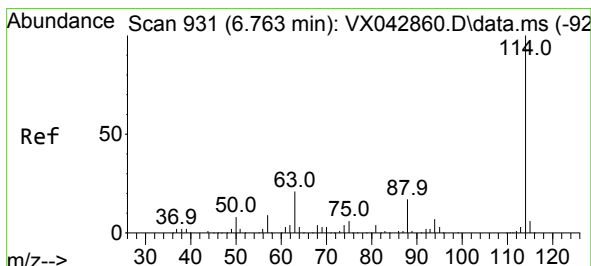
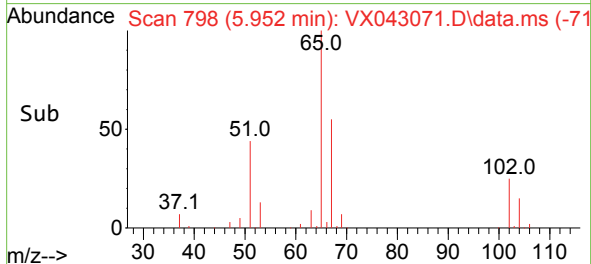
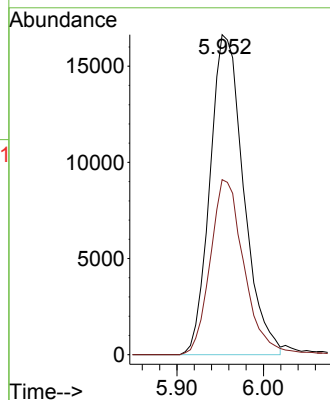
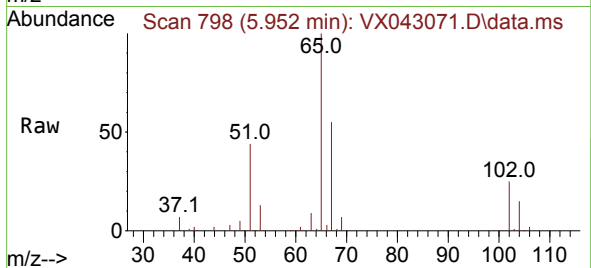
ClientSampleId :

Tgt Ion: 65 Resp: 44911

Ion Ratio Lower Upper

65 100

67 54.7 40.6 60.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.006 min

Lab File: VX043071.D

Acq: 16 Aug 2024 13:15

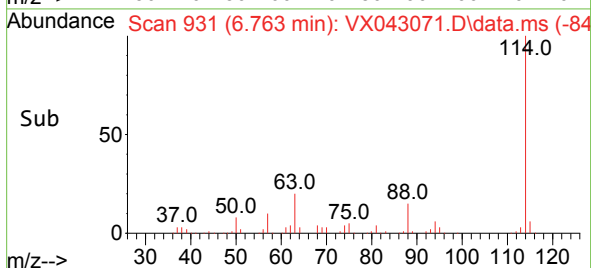
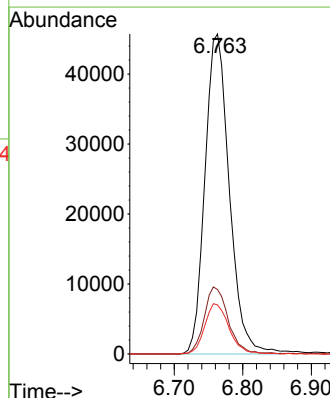
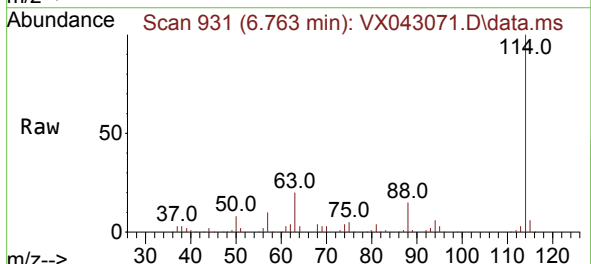
Tgt Ion: 114 Resp: 112998

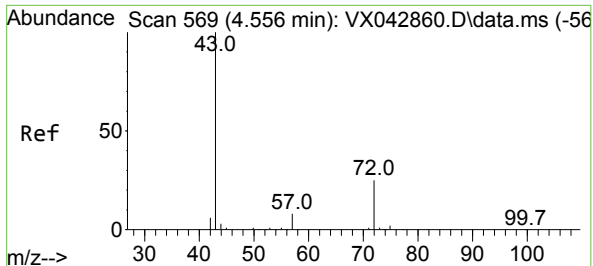
Ion Ratio Lower Upper

114 100

63 20.5 16.0 24.0

88 15.6 12.5 18.7





#30

2-Butanone

Concen: 15.227 ug/l

RT: 4.574 min Scan# 51

Delta R.T. 0.006 min

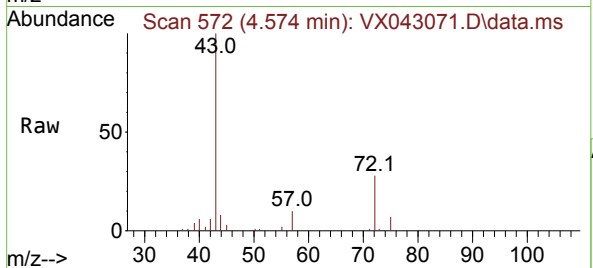
Lab File: VX043071.D

Acq: 16 Aug 2024 13:15

Instrument :

MSVOA_X

ClientSampleId :



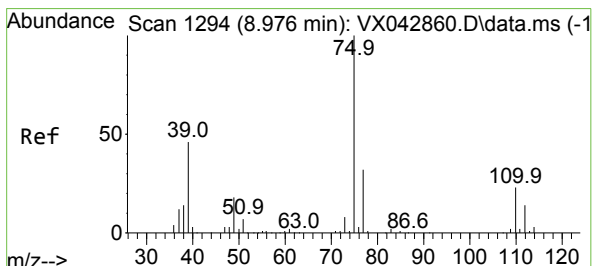
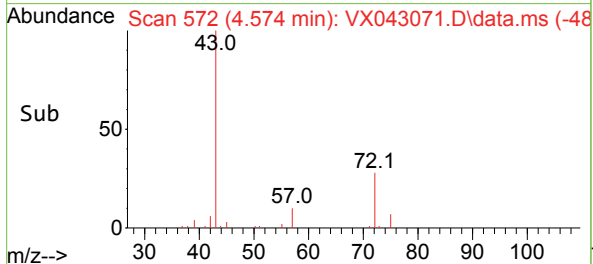
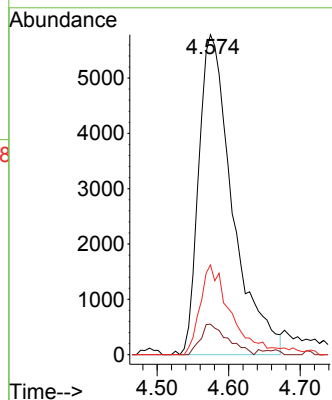
Tgt Ion: 43 Resp: 18922

Ion Ratio Lower Upper

43 100

57 7.7 6.6 10.0

72 24.3 21.0 31.4



#48

t-1,3-Dichloropropene

Concen: 0.694 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. -0.268 min

Lab File: VX043071.D

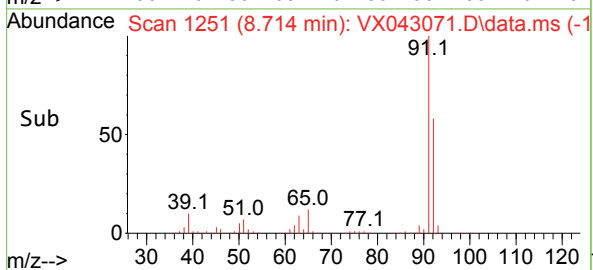
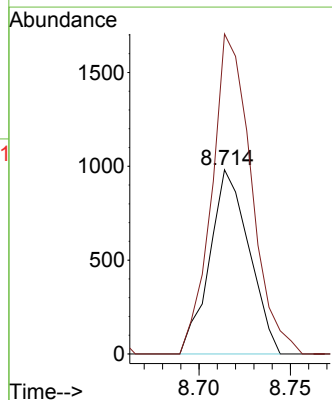
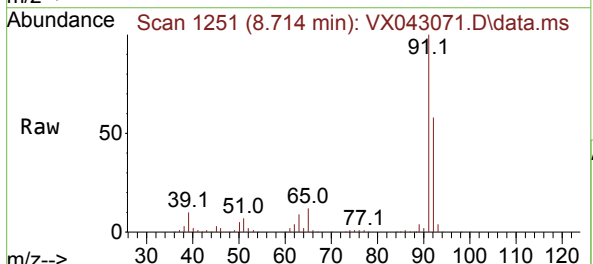
Acq: 16 Aug 2024 13:15

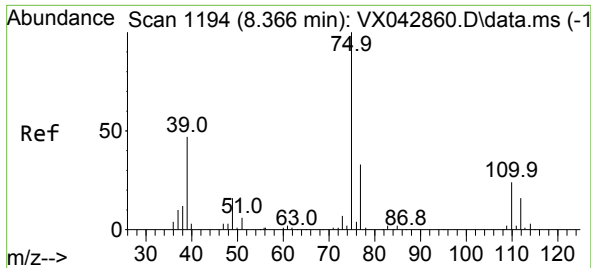
Tgt Ion: 75 Resp: 1475

Ion Ratio Lower Upper

75 100

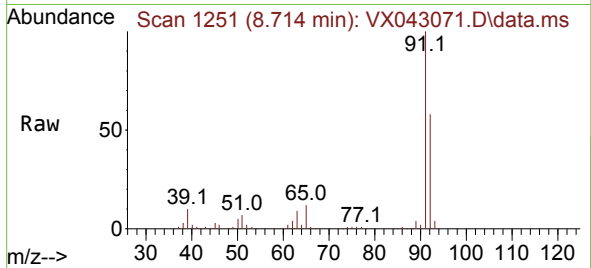
77 173.8 25.6 38.4#



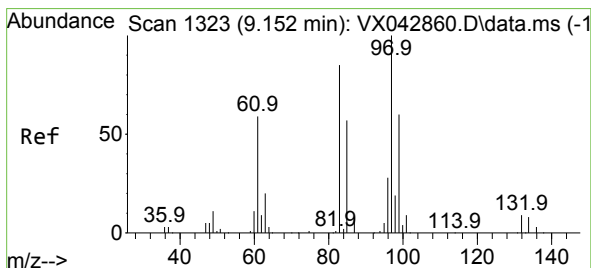
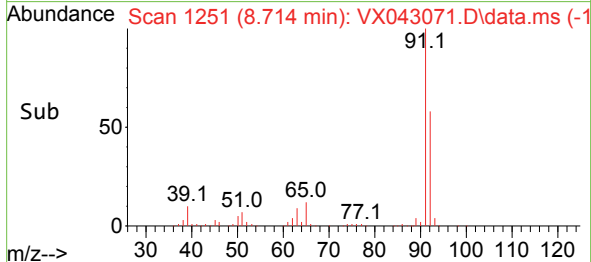
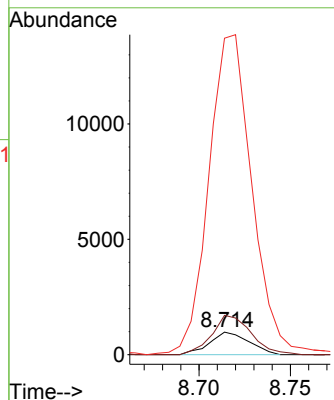


#49
 cis-1,3-Dichloropropene
 Concen: 0.636 ug/l
 RT: 8.714 min Scan# 1194
 Delta R.T. 0.348 min
 Lab File: VX043071.D
 Acq: 16 Aug 2024 13:15

Instrument :
 MSVOA_X
 ClientSampleId :

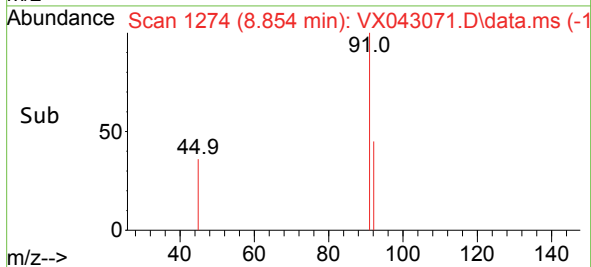
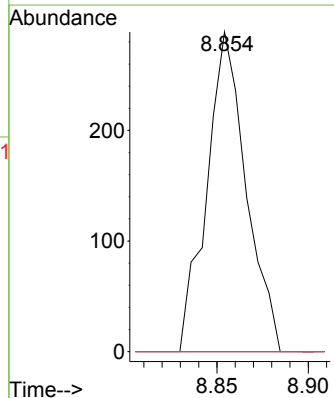
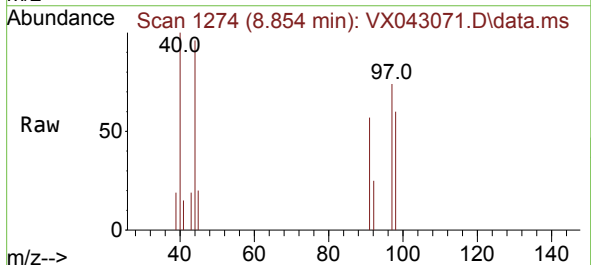


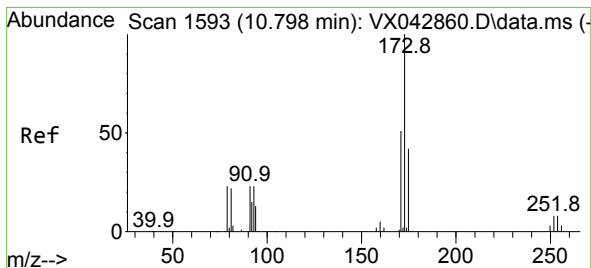
Tgt Ion: 75 Resp: 1475
 Ion Ratio Lower Upper
 75 100
 77 173.8 26.8 40.2#
 39 1361.0 37.5 56.3#



#50
 1,1,2-Trichloroethane
 Concen: 0.328 ug/l
 RT: 8.854 min Scan# 1274
 Delta R.T. -0.299 min
 Lab File: VX043071.D
 Acq: 16 Aug 2024 13:15

Tgt Ion: 97 Resp: 434
 Ion Ratio Lower Upper
 97 100
 83 0.0 68.2 102.2#
 85 0.0 45.4 68.0#
 99 0.0 49.0 73.4#





#56

Bromoform

Concen: 0.283 ug/l

RT: 11.085 min Scan# 1

Delta R.T. 0.287 min

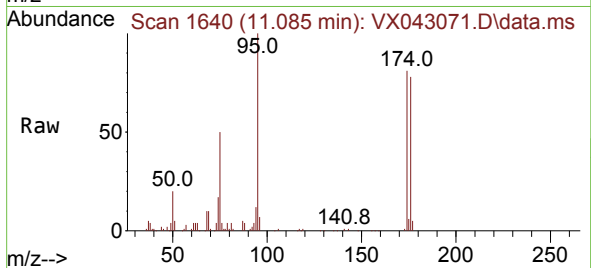
Lab File: VX043071.D

Acq: 16 Aug 2024 13:15

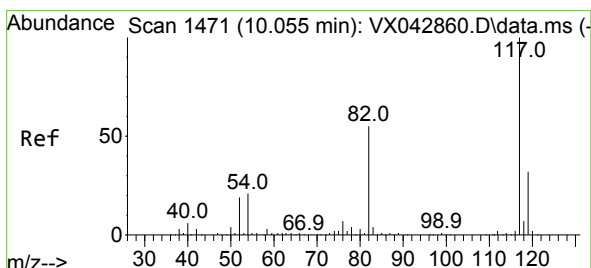
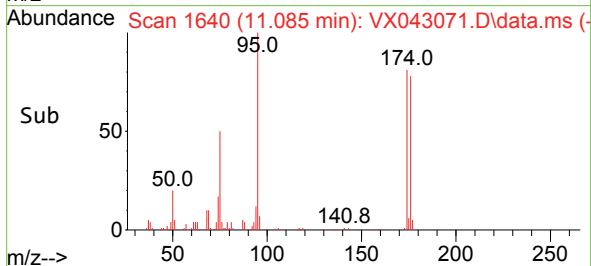
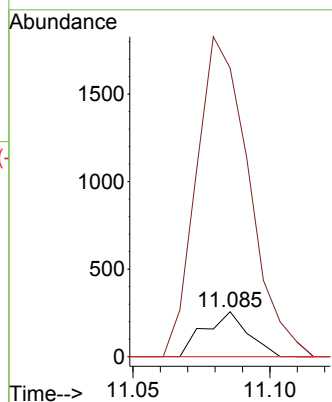
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	173	Resp:	284
Ion	Ratio	Lower	Upper
173	100		
175	858.8	37.1	55.7#
254	0.0	6.6	10.0#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

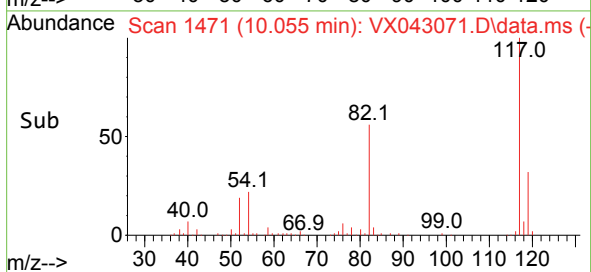
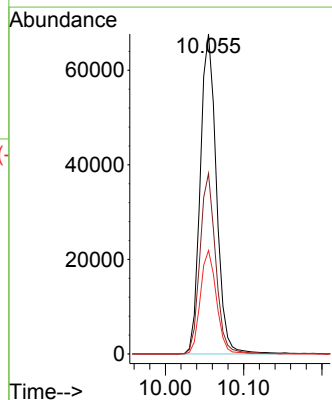
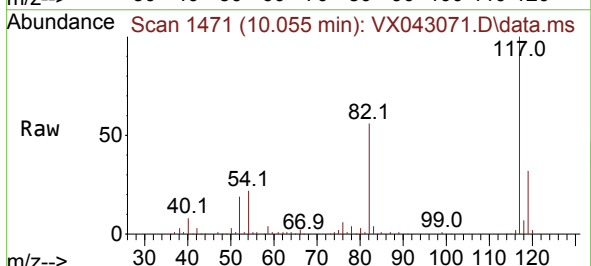
RT: 10.055 min Scan# 1471

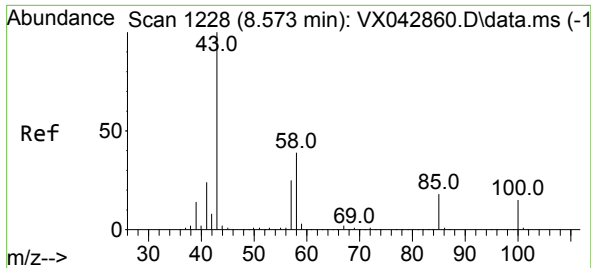
Delta R.T. 0.000 min

Lab File: VX043071.D

Acq: 16 Aug 2024 13:15

Tgt Ion:	117	Resp:	97115
Ion	Ratio	Lower	Upper
117	100		
82	54.7	44.9	67.3
119	32.1	25.4	38.2

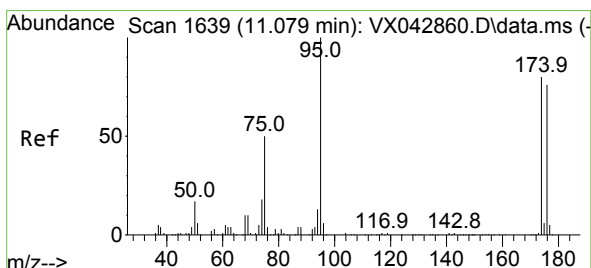
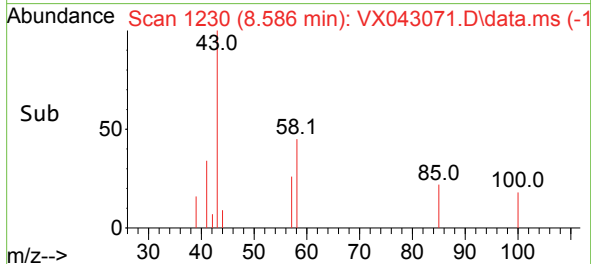
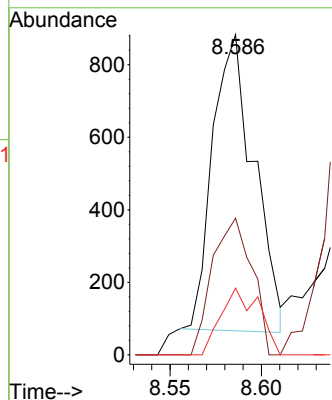
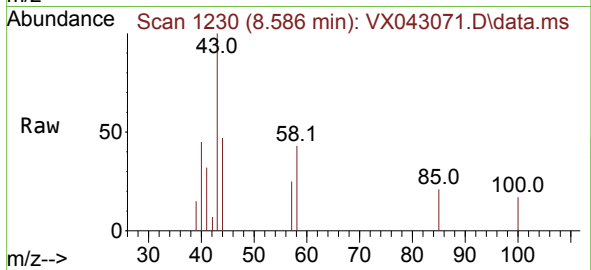




#58
 4-Methyl-2-Pentanone
 Concen: 0.571 ug/l
 RT: 8.586 min Scan# 1230
 Delta R.T. 0.012 min
 Lab File: VX043071.D
 Acq: 16 Aug 2024 13:15

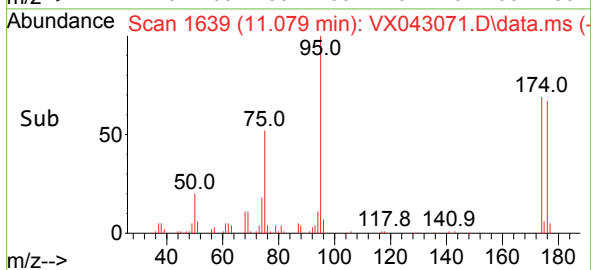
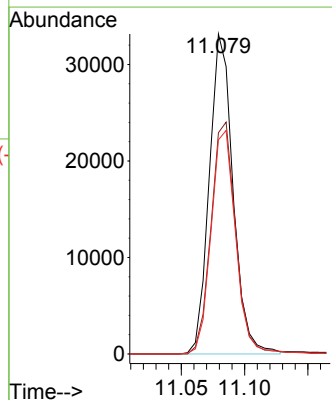
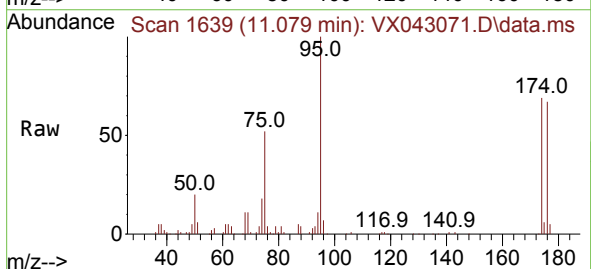
Instrument :
 MSVOA_X
 ClientSampleId :

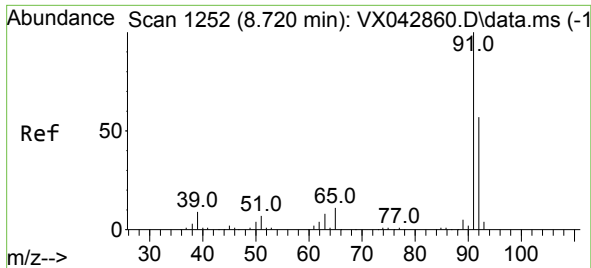
Tgt Ion:	43	Resp:	1282
Ion	Ratio	Lower	Upper
43	100		
58	44.3	31.4	47.0
85	20.8	14.6	21.8



#60
 4-Bromofluorobenzene
 Concen: 26.274 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. 0.000 min
 Lab File: VX043071.D
 Acq: 16 Aug 2024 13:15

Tgt Ion:	95	Resp:	43316
Ion	Ratio	Lower	Upper
95	100		
174	75.5	65.0	97.6
176	72.4	63.4	95.0

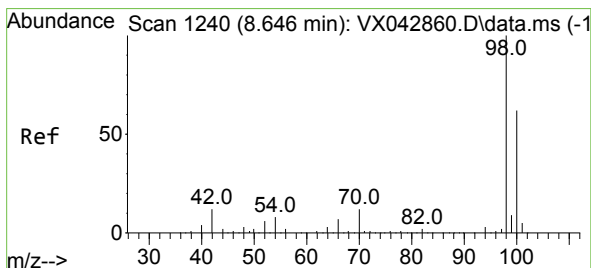
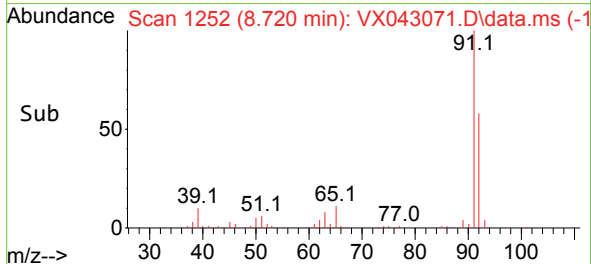
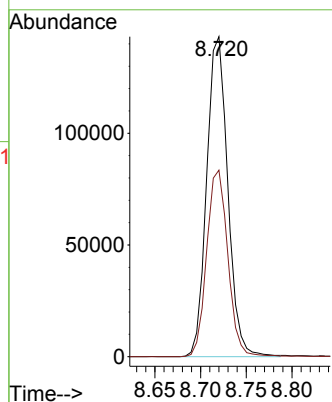
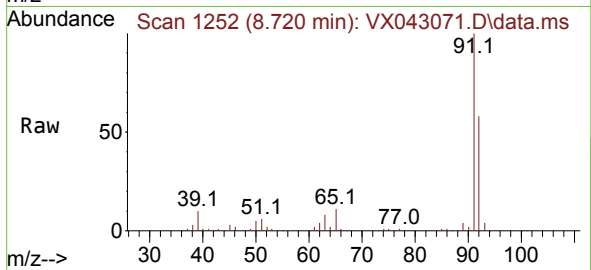




#62
Toluene
Concen: 41.410 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX043071.D
Acq: 16 Aug 2024 13:15

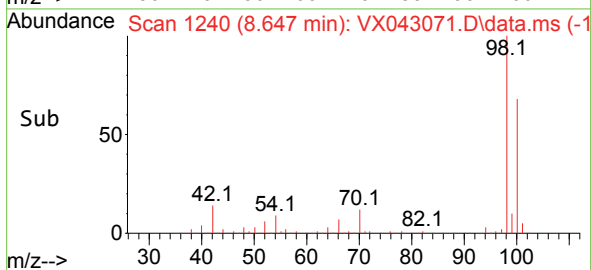
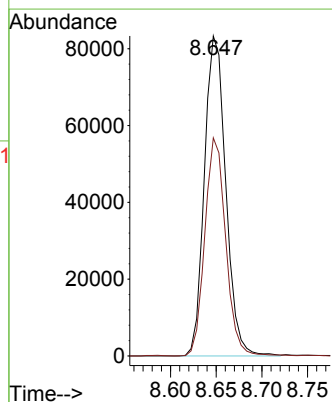
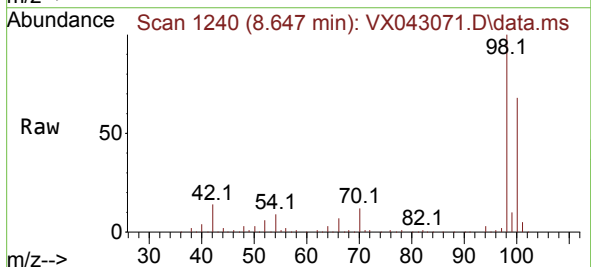
Instrument :
MSVOA_X
ClientSampleId :

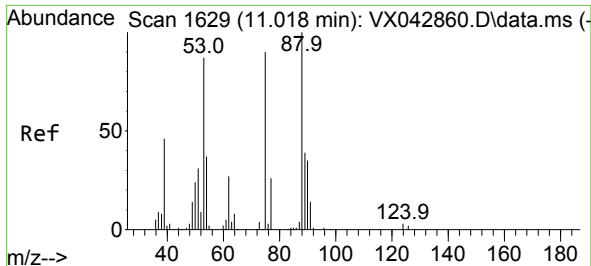
Tgt Ion: 91 Resp: 229723
Ion Ratio Lower Upper
91 100
92 58.6 45.7 68.5



#63
Toluene-d8
Concen: 30.362 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX043071.D
Acq: 16 Aug 2024 13:15

Tgt Ion: 98 Resp: 135451
Ion Ratio Lower Upper
98 100
100 66.3 50.9 76.3





#77

t-1,4-Dichloro-2-butene

Concen: 26.357 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.061 min

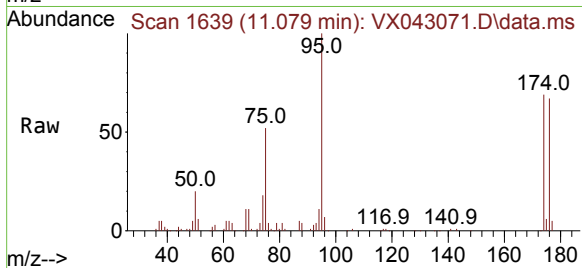
Lab File: VX043071.D

Acq: 16 Aug 2024 13:15

Instrument :

MSVOA_X

ClientSampleId :



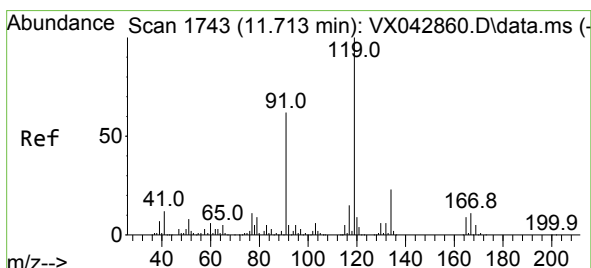
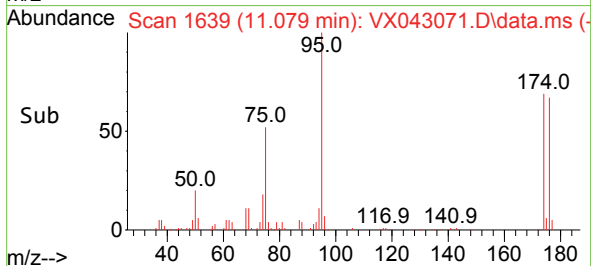
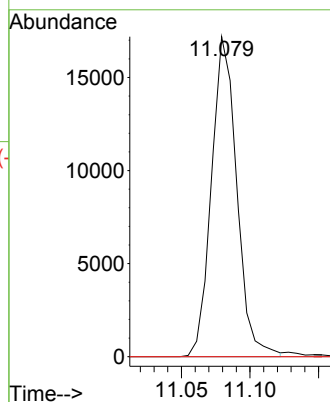
Tgt Ion: 75 Resp: 22072

Ion Ratio Lower Upper

75 100

53 0.0 48.5 145.5#

89 0.0 21.9 65.5#



#79

tert-butylbenzene

Concen: 0.709 ug/l

RT: 12.012 min Scan# 1792

Delta R.T. 0.299 min

Lab File: VX043071.D

Acq: 16 Aug 2024 13:15

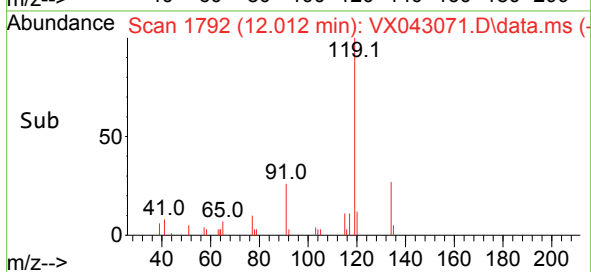
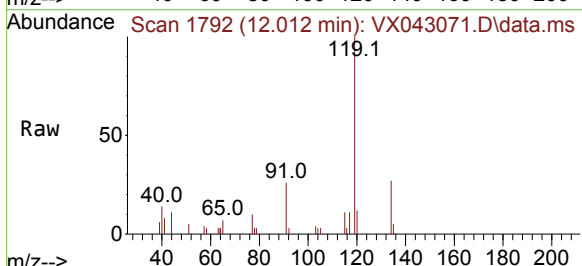
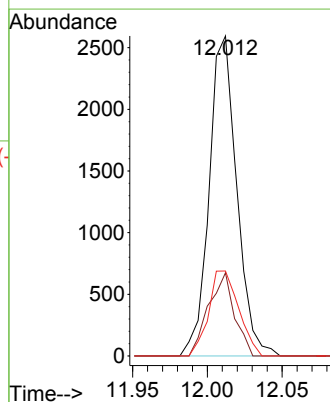
Tgt Ion: 119 Resp: 3334

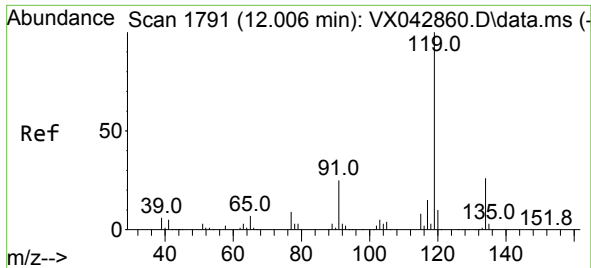
Ion Ratio Lower Upper

119 100

91 24.3 0.0 118.6

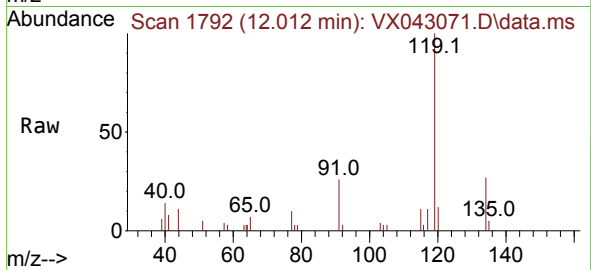
134 28.9 0.0 44.4





#82
p-Isopropyltoluene
Concen: 0.694 ug/l
RT: 12.012 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX043071.D
Acq: 16 Aug 2024 13:15

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:	119	Resp:	3334
Ion	Ratio	Lower	Upper
119	100		
134	28.9	0.0	51.8
91	24.3	0.0	48.4

