

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051624\
 Data File : VX041573.D
 Acq On : 16 May 2024 18:56
 Operator : JC/MD
 Sample : P2516-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: May 17 02:43:22 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)

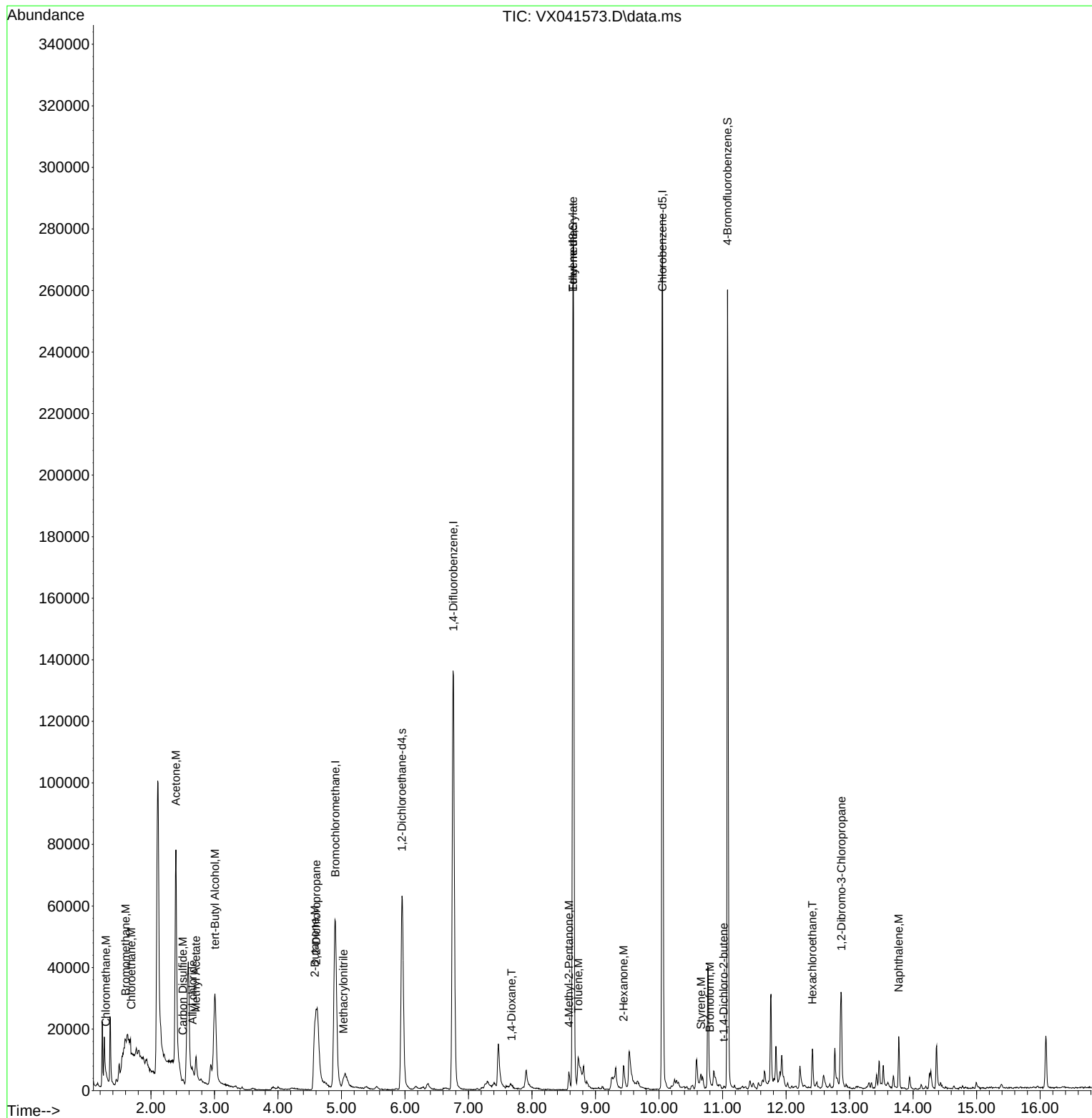
Internal Standards						
1) Bromochloromethane	4.904	128	26074	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	147344	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	137701	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	62701	30.537	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.800%
60) 4-Bromofluorobenzene	11.079	95	63101	29.355	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.833%
63) Toluene-d8	8.647	98	172217	29.176	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.267%
Target Compounds					Qvalue	
3) Chloromethane	1.288	50	368	0.246	ug/l #	42
5) Bromomethane	1.599	94	225	0.225	ug/l	99
6) Chloroethane	1.691	64	2221	2.794	ug/l #	46
12) Methyl Acetate	2.709	43	8521	4.241	ug/l	97
15) Acetone	2.392	58	24516	103.586	ug/l	98
16) Carbon Disulfide	2.502	76	1882	0.625	ug/l	96
17) Allyl chloride	2.654	41	1976	0.835	ug/l #	27
23) tert-Butyl Alcohol	3.008	59	45262	120.745	ug/l #	100
30) 2-Butanone	4.580	43	32804	25.356	ug/l	96
31) 2,2-Dichloropropane	4.605	77	879	0.384	ug/l #	53
35) Methacrylonitrile	5.032	41	861	0.660	ug/l #	50
45) 1,4-Dioxane	7.677	88	86	2.021	ug/l #	35
51) Ethyl methacrylate	8.647	69	620	0.242	ug/l	92
56) Bromoform	10.799	173	311	0.214	ug/l #	44
58) 4-Methyl-2-Pentanone	8.580	43	4141	1.646	ug/l	95
59) 2-Hexanone	9.439	43	4987	2.488	ug/l #	92
62) Toluene	8.726	91	1771	0.258	ug/l	94
69) Styrene	10.659	104	1756	0.350	ug/l	95
77) t-1,4-Dichloro-2-butene	11.018	75	166	0.225	ug/l #	1
86) Hexachloroethane	12.414	117	424	0.358	ug/l #	2
88) 1,2-Dibromo-3-Chloropr...	12.872	75	772	1.352	ug/l #	1
91) Naphthalene	13.774	128	10545	1.290	ug/l	99

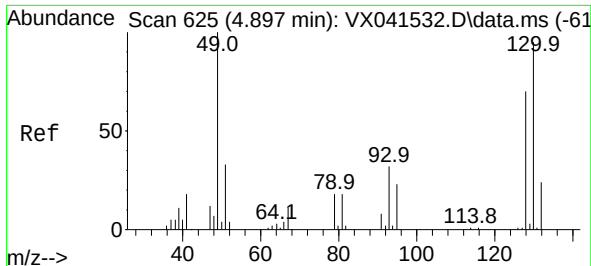
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051624\
Data File : VX041573.D
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ALS Vial : 25 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

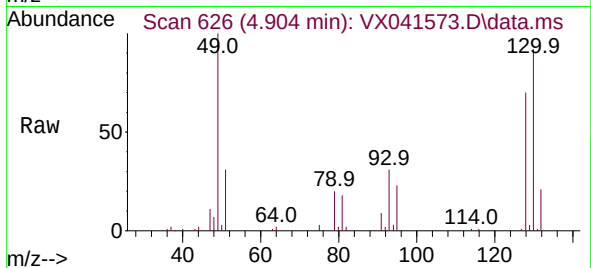
Quant Time: May 17 02:43:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu May 16 05:13:13 2024
Response via : Initial Calibration



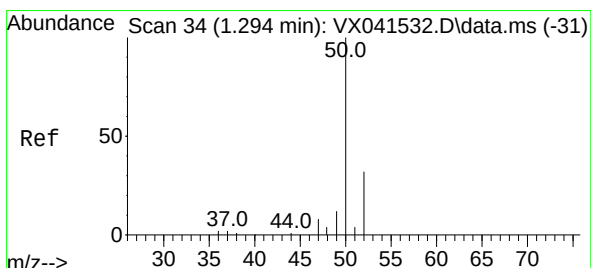
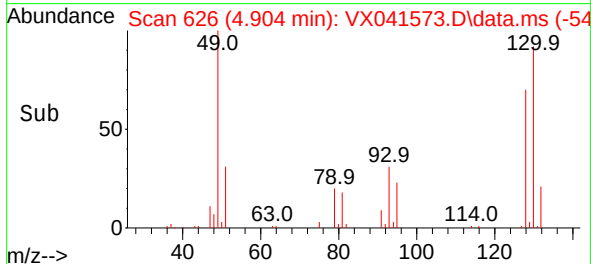
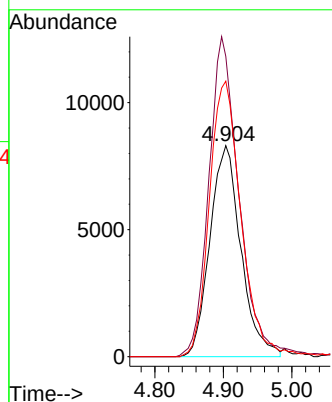


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.007 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

Instrument :
MSVOA_X
ClientSampleId :

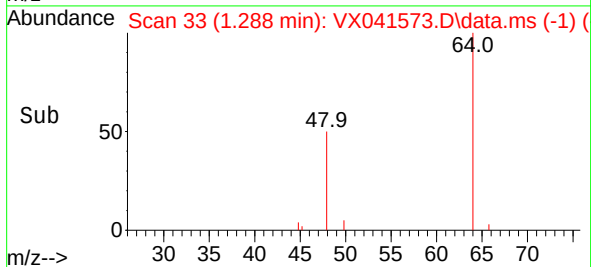
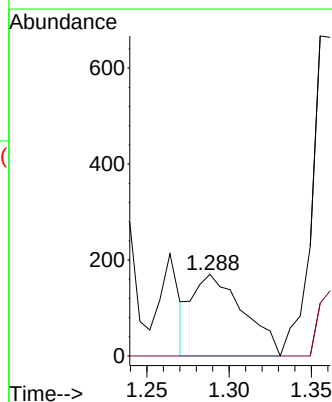
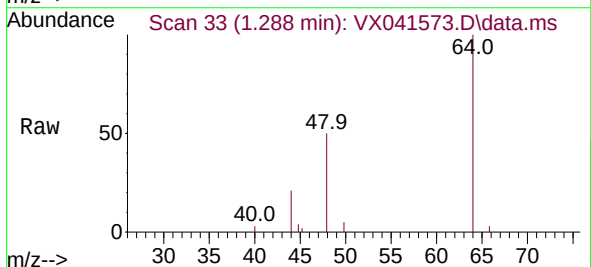


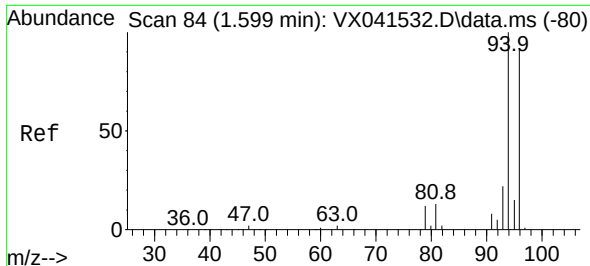
Tgt Ion:128 Resp: 26074
Ion Ratio Lower Upper
128 100
49 148.3 0.0 361.5
130 133.6 0.0 324.3



#3
Chloromethane
Concen: 0.246 ug/l
RT: 1.288 min Scan# 33
Delta R.T. -0.006 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

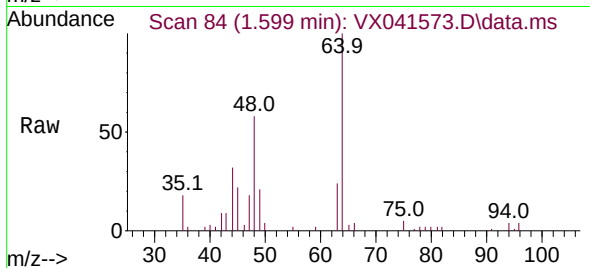
Tgt Ion: 50 Resp: 368
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.8#



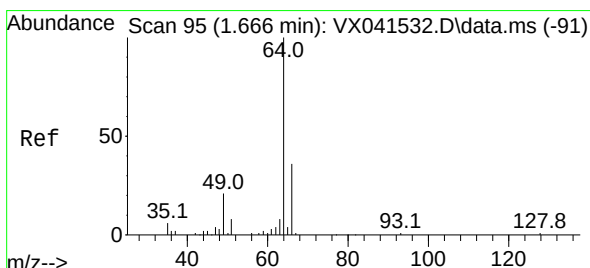
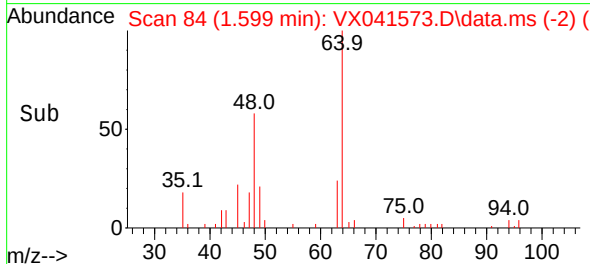
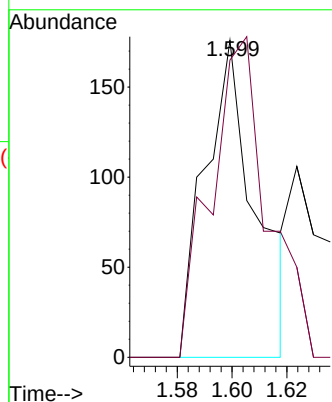


#5
Bromomethane
Concen: 0.225 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

Instrument :
MSVOA_X
ClientSampleId :

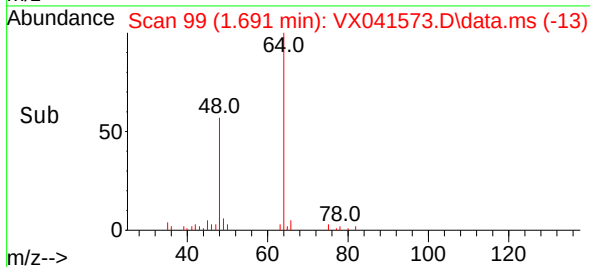
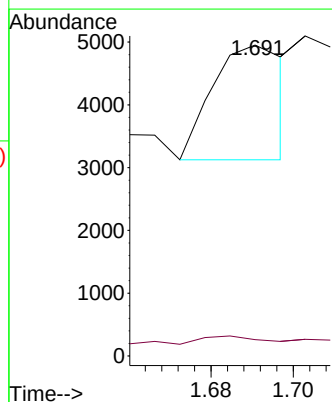
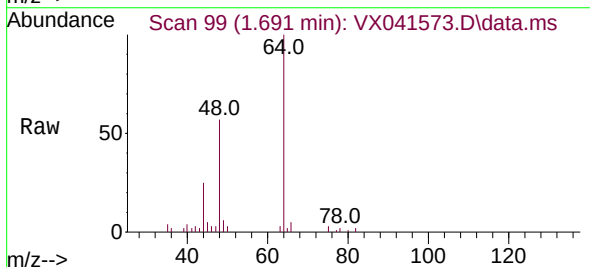


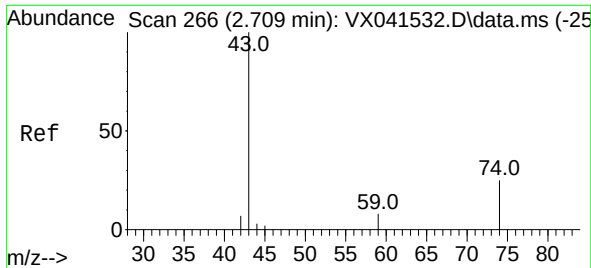
Tgt Ion: 94 Resp: 225
Ion Ratio Lower Upper
94 100
96 93.8 73.9 110.9



#6
Chloroethane
Concen: 2.794 ug/l
RT: 1.691 min Scan# 99
Delta R.T. 0.024 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

Tgt Ion: 64 Resp: 2221
Ion Ratio Lower Upper
64 100
66 4.1 28.6 42.8#

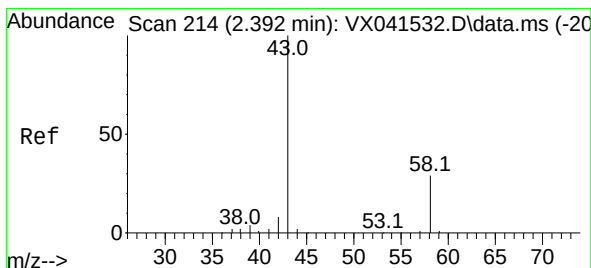
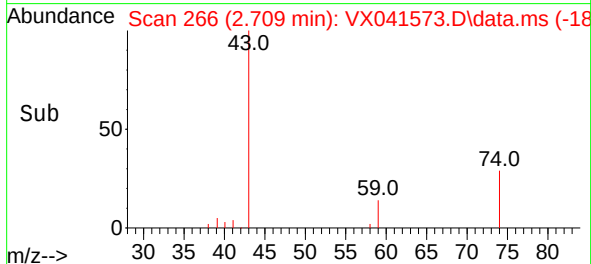
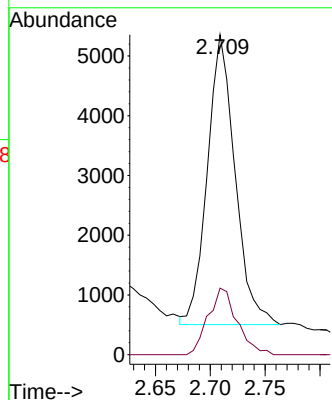
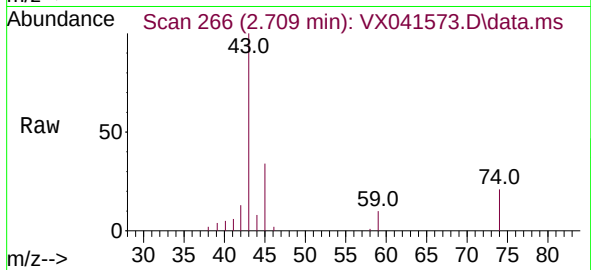




#12
Methyl Acetate
Concen: 4.241 ug/l
RT: 2.709 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

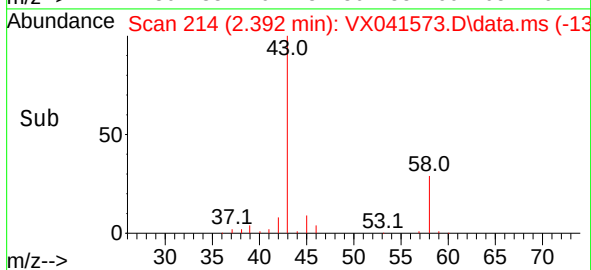
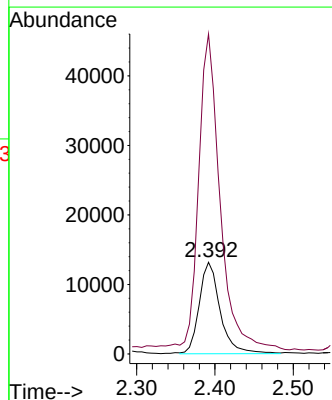
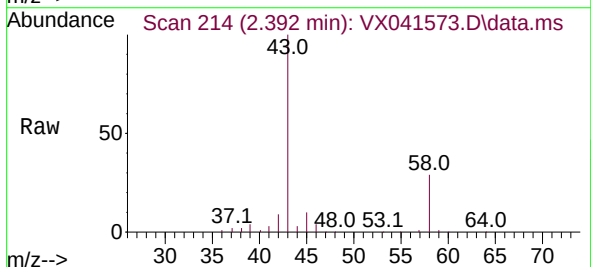
Instrument :
MSVOA_X
ClientSampleId :

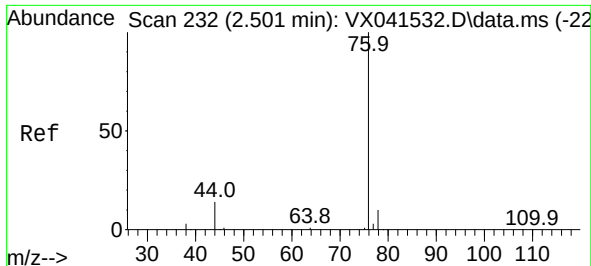
Tgt Ion: 43 Resp: 8521
Ion Ratio Lower Upper
43 100
74 23.3 19.9 29.9



#15
Acetone
Concen: 103.586 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

Tgt Ion: 58 Resp: 24516
Ion Ratio Lower Upper
58 100
43 346.0 274.0 411.0

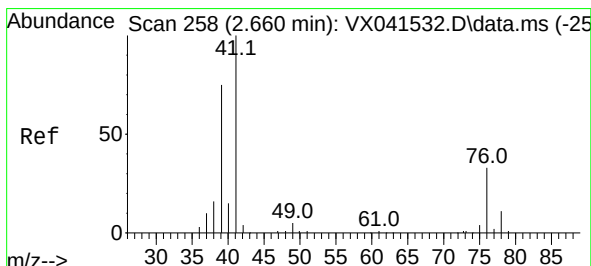
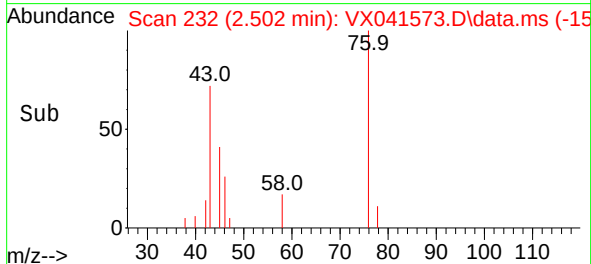
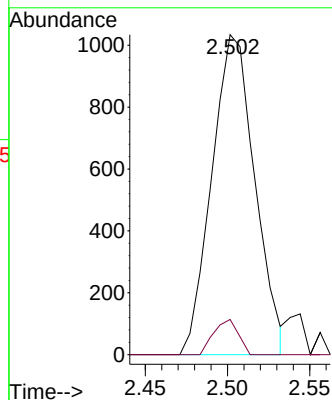
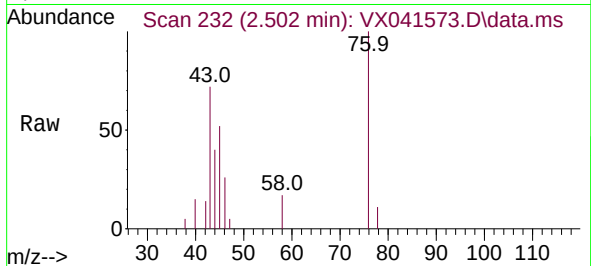




#16
Carbon Disulfide
Concen: 0.625 ug/l
RT: 2.502 min Scan# 241
Delta R.T. 0.000 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

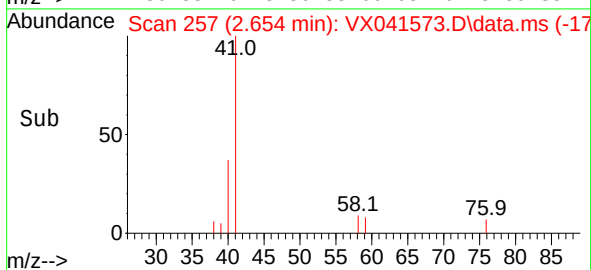
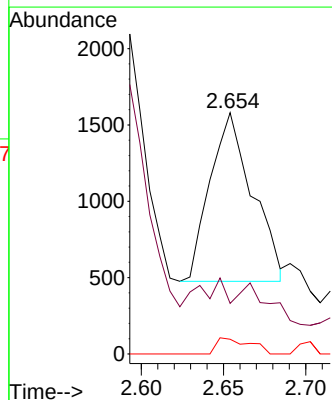
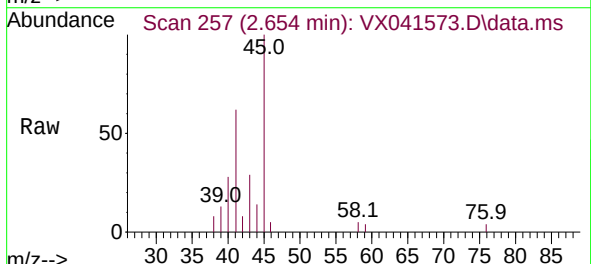
Instrument :
MSVOA_X
ClientSampleId :

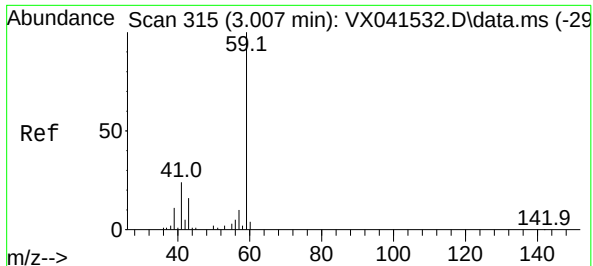
Tgt Ion: 76 Resp: 1882
Ion Ratio Lower Upper
76 100
78 11.0 7.6 11.4



#17
Allyl chloride
Concen: 0.835 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.006 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

Tgt Ion: 41 Resp: 1976
Ion Ratio Lower Upper
41 100
39 2.0 37.5 112.7#
76 8.7 16.6 49.8#





#23

tert-Butyl Alcohol

Concen: 120.745 ug/l

RT: 3.008 min Scan# 315

Delta R.T. 0.000 min

Lab File: VX041573.D

Acq: 16 May 2024 18:56

Instrument :

MSVOA_X

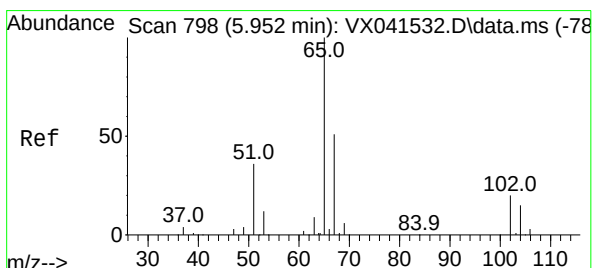
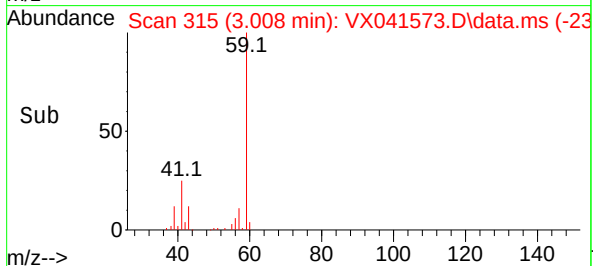
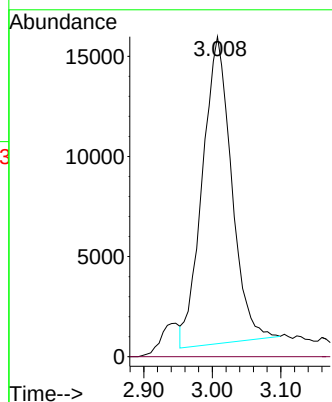
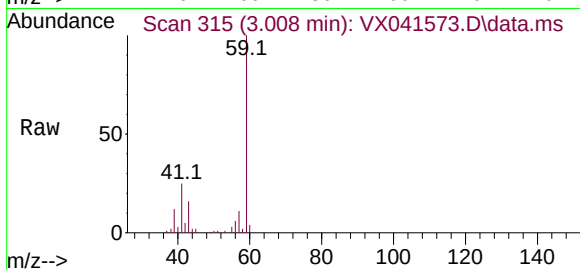
ClientSampleId :

Tgt Ion: 59 Resp: 45262

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#27

1,2-Dichloroethane-d4

Concen: 30.537 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX041573.D

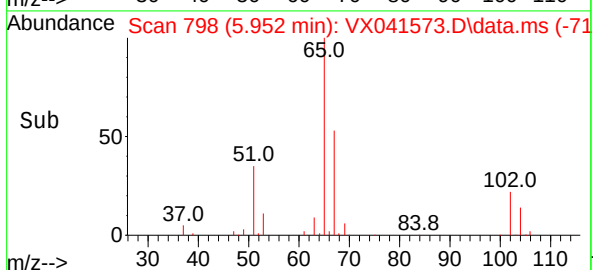
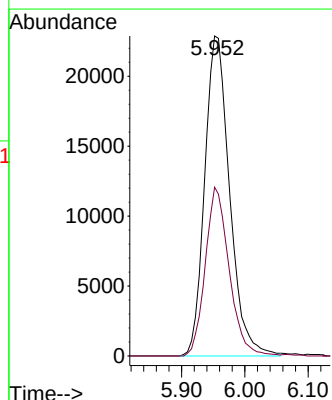
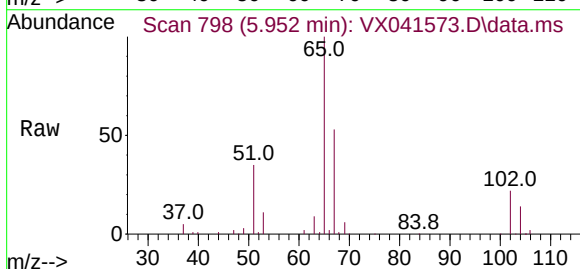
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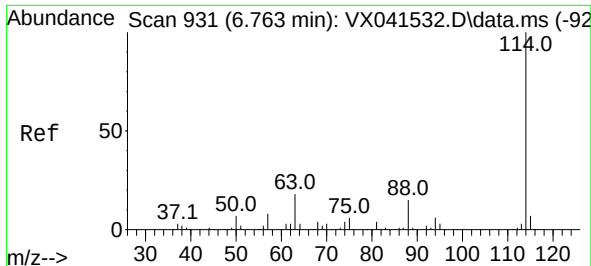
Tgt Ion: 65 Resp: 62701

Ion Ratio Lower Upper

65 100

67 50.5 40.8 61.2

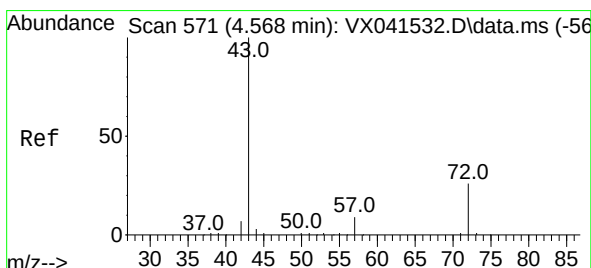
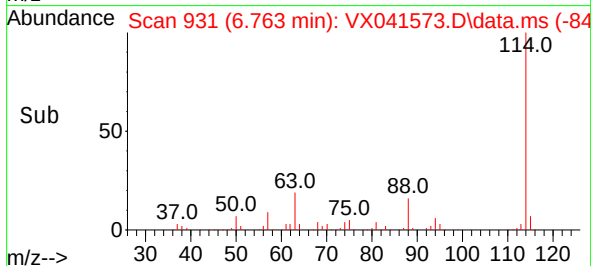
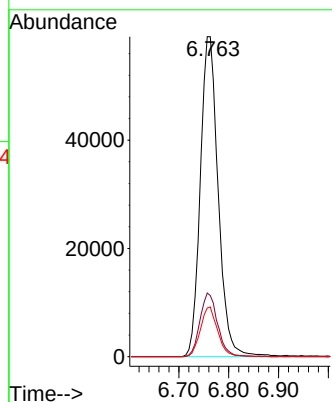
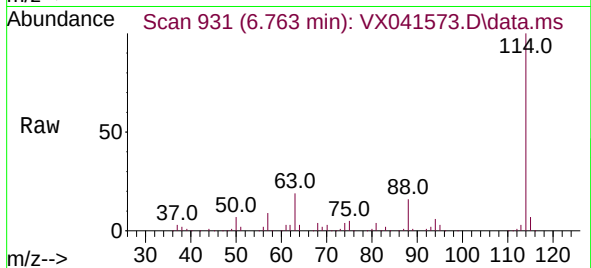




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

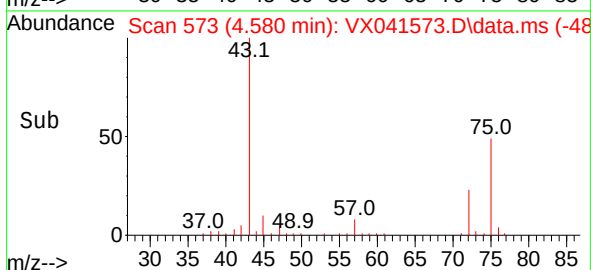
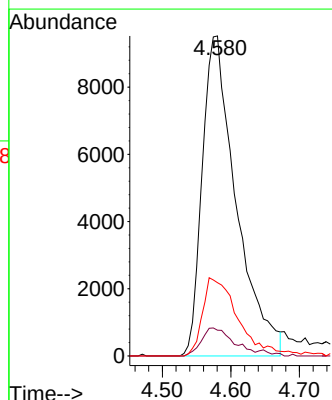
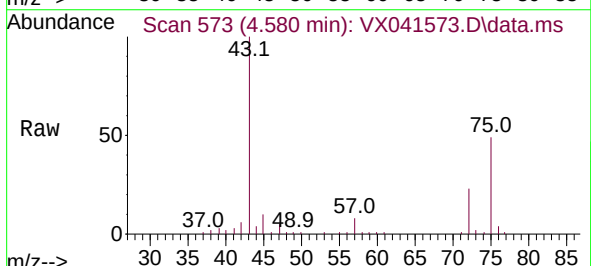
Instrument :
MSVOA_X
ClientSampleId :

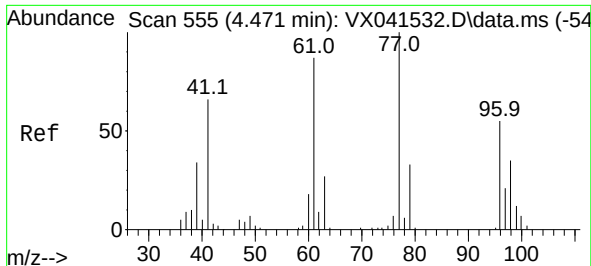
Tgt Ion:114 Resp: 147344
Ion Ratio Lower Upper
114 100
63 19.6 15.4 23.0
88 15.0 12.2 18.2



#30
2-Butanone
Concen: 25.356 ug/l
RT: 4.580 min Scan# 573
Delta R.T. 0.012 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

Tgt Ion: 43 Resp: 32804
Ion Ratio Lower Upper
43 100
57 7.2 6.6 10.0
72 24.0 20.7 31.1

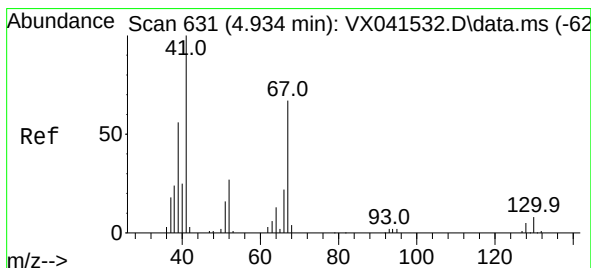
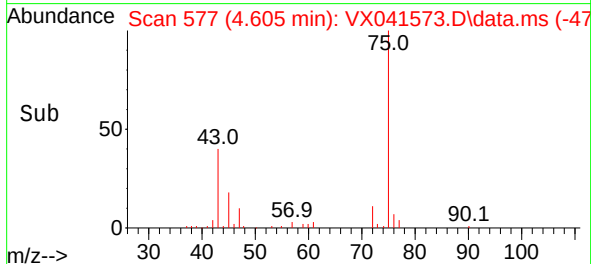
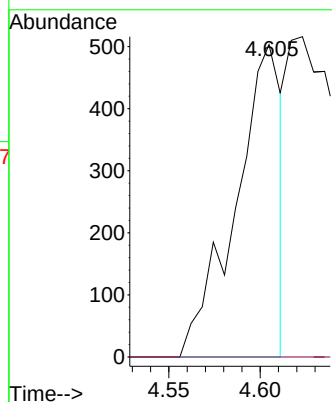
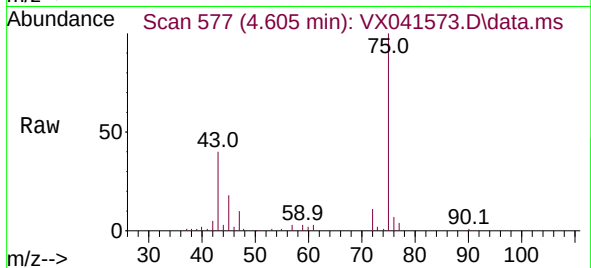




#31
2,2-Dichloropropane
Concen: 0.384 ug/l
RT: 4.605 min Scan# 51
Delta R.T. 0.134 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

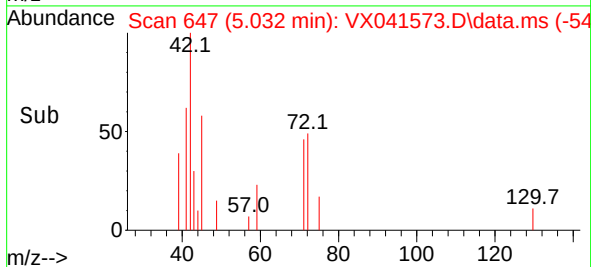
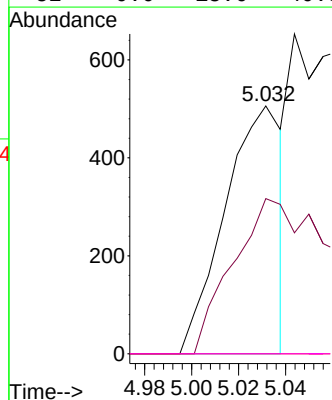
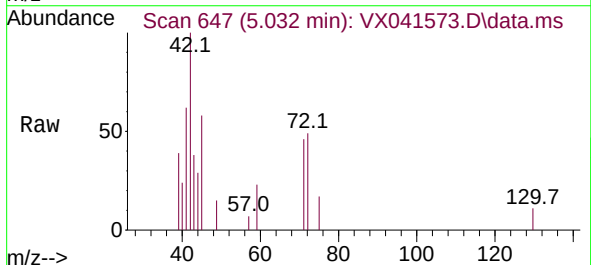
Instrument :
MSVOA_X
ClientSampleId :

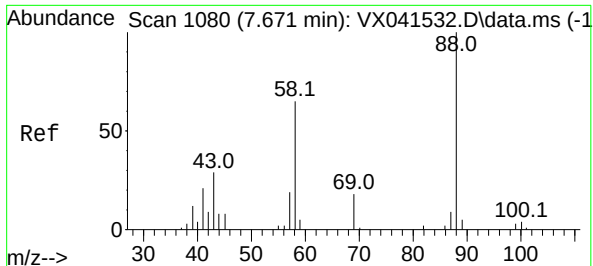
Tgt Ion: 77 Resp: 879
Ion Ratio Lower Upper
77 100
97 0.0 18.0 27.0#



#35
Methacrylonitrile
Concen: 0.660 ug/l
RT: 5.032 min Scan# 647
Delta R.T. 0.098 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

Tgt Ion: 41 Resp: 861
Ion Ratio Lower Upper
41 100
39 62.6 28.1 84.4
67 0.0 33.7 101.1#
52 0.0 13.6 40.8#





#45

1,4-Dioxane

Concen: 2.021 ug/l

RT: 7.677 min Scan# 1

Delta R.T. 0.006 min

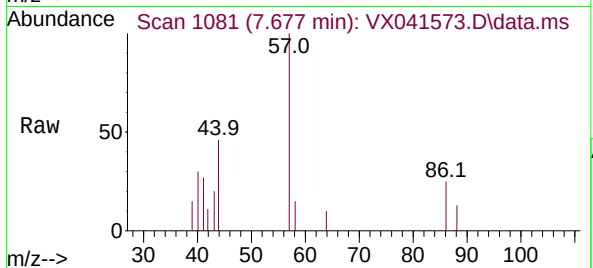
Lab File: VX041573.D

Acq: 16 May 2024 18:56

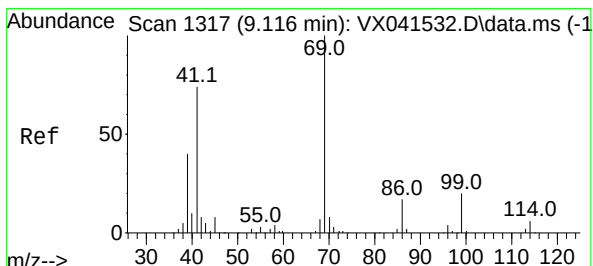
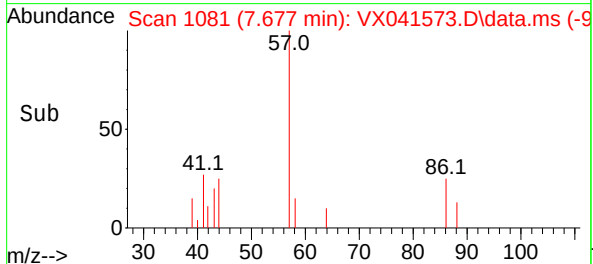
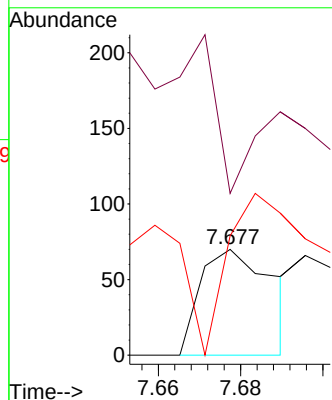
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	88	Resp:	86
Ion	Ratio	Lower	Upper
88	100		
43	77.9	24.9	37.3#
58	98.8	47.0	70.4#



#51

Ethyl methacrylate

Concen: 0.242 ug/l

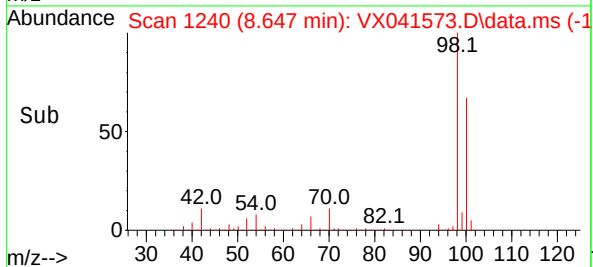
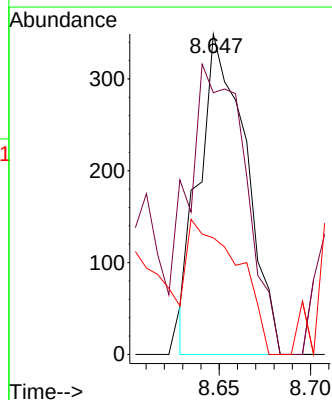
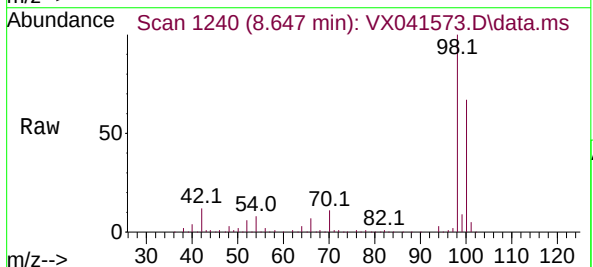
RT: 8.647 min Scan# 1240

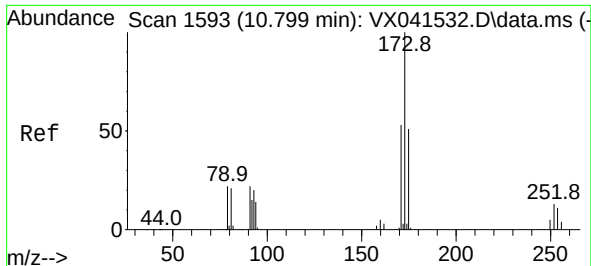
Delta R.T. -0.469 min

Lab File: VX041573.D

Acq: 16 May 2024 18:56

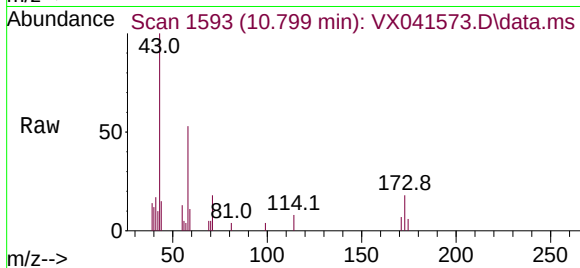
Tgt Ion:	69	Resp:	620
Ion	Ratio	Lower	Upper
69	100		
41	81.7	37.1	111.3
39	36.4	20.2	60.6



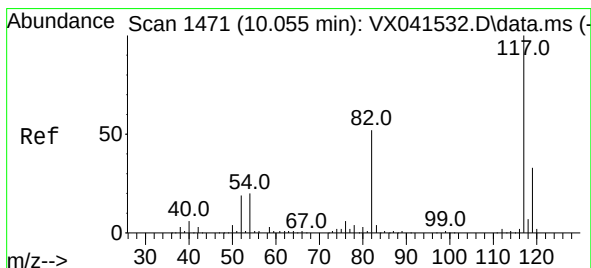
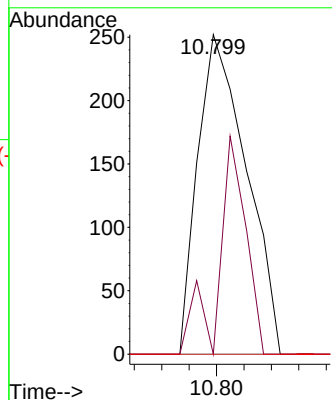
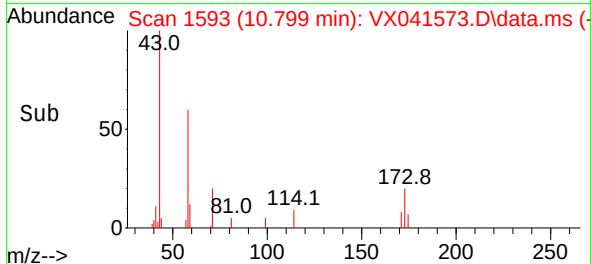


#56
Bromoform
Concen: 0.214 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

Instrument :
MSVOA_X
ClientSampleId :

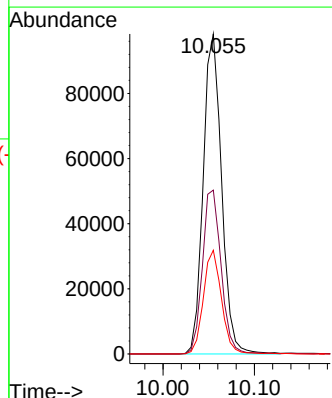
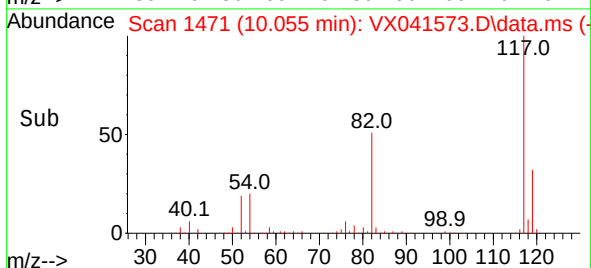
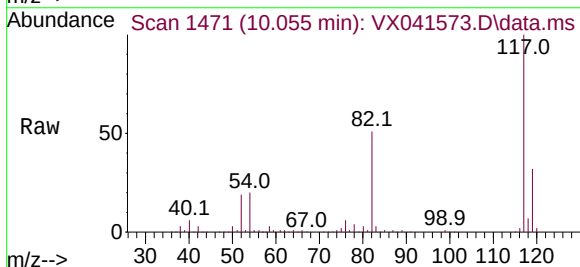


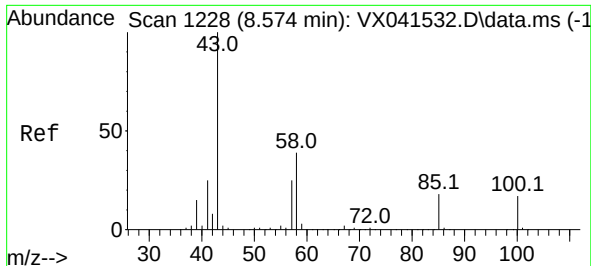
Tgt Ion:173 Resp: 311
Ion Ratio Lower Upper
173 100
175 6.8 39.0 58.6#
254 0.0 10.3 15.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

Tgt Ion:117 Resp: 137701
Ion Ratio Lower Upper
117 100
82 52.1 41.7 62.5
119 31.7 25.7 38.5





#58

4-Methyl-2-Pentanone

Concen: 1.646 ug/l

RT: 8.580 min Scan# 11

Delta R.T. 0.006 min

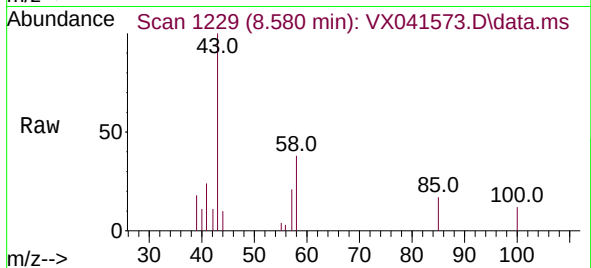
Lab File: VX041573.D

Acq: 16 May 2024 18:56

Instrument :

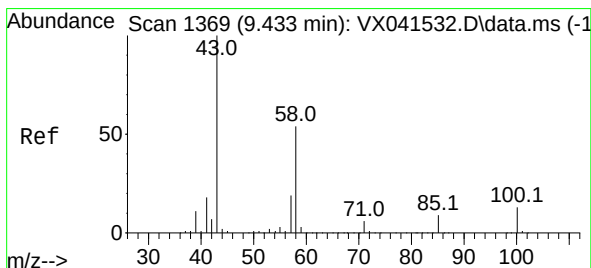
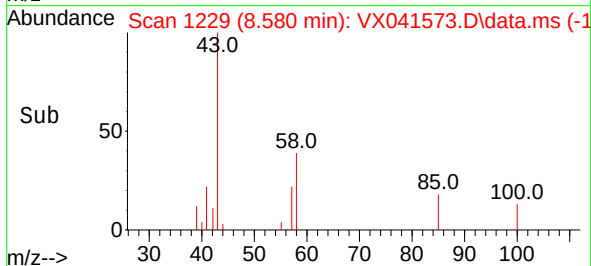
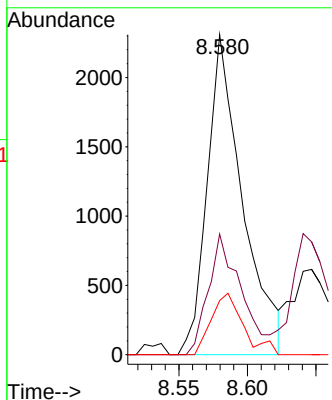
MSVOA_X

ClientSampleId :



Tgt Ion: 43 Resp: 4141

Ion	Ratio	Lower	Upper
43	100		
58	35.3	30.2	45.4
85	15.7	14.6	21.8



#59

2-Hexanone

Concen: 2.488 ug/l

RT: 9.439 min Scan# 1370

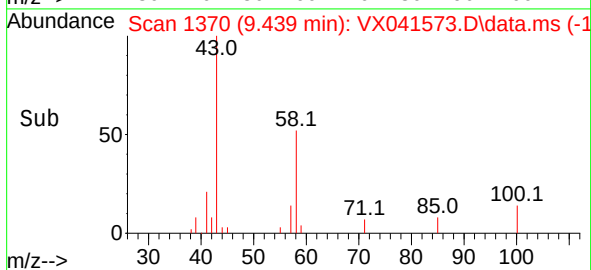
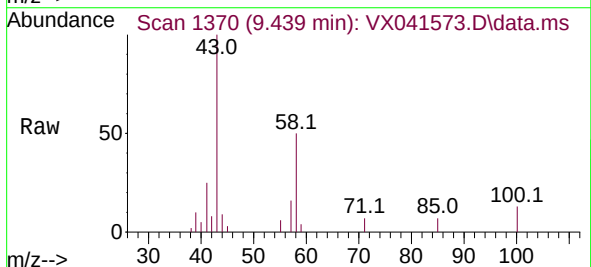
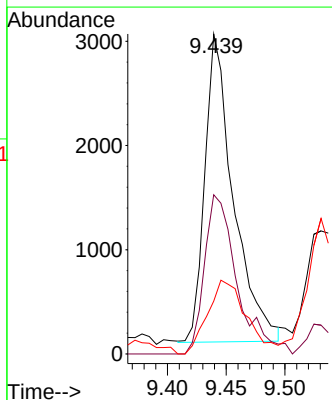
Delta R.T. 0.006 min

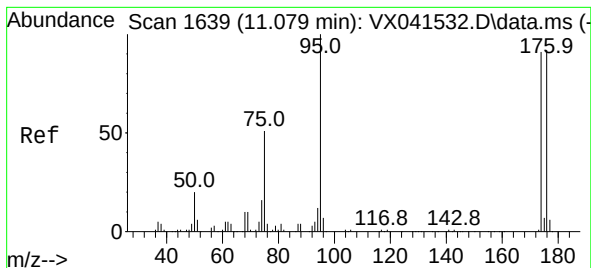
Lab File: VX041573.D

Acq: 16 May 2024 18:56

Tgt Ion: 43 Resp: 4987

Ion	Ratio	Lower	Upper
43	100		
58	52.7	42.3	63.5
57	32.5	15.1	22.7





#60

4-Bromofluorobenzene

Concen: 29.355 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX041573.D

Acq: 16 May 2024 18:56

Instrument :

MSVOA_X

ClientSampleId :

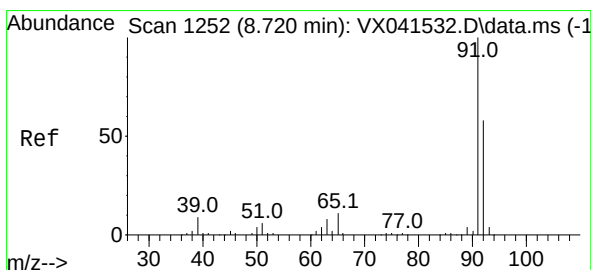
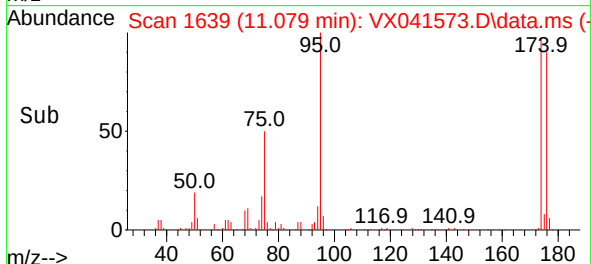
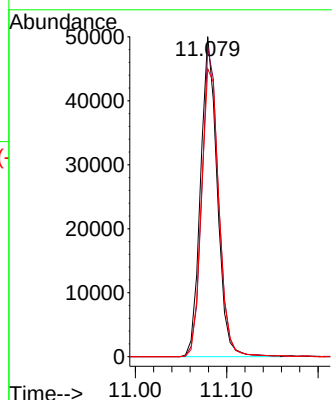
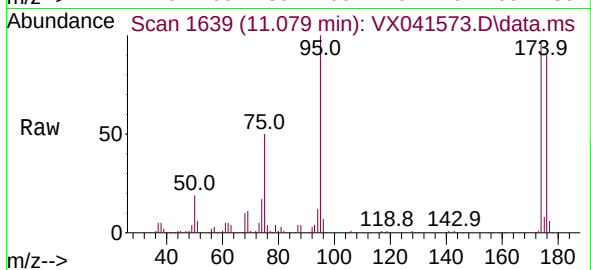
Tgt Ion: 95 Resp: 63101

Ion Ratio Lower Upper

95 100

174 96.5 76.6 115.0

176 94.8 75.4 113.0



#62

Toluene

Concen: 0.258 ug/l

RT: 8.726 min Scan# 1253

Delta R.T. 0.006 min

Lab File: VX041573.D

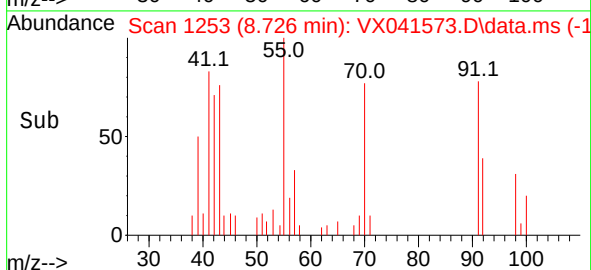
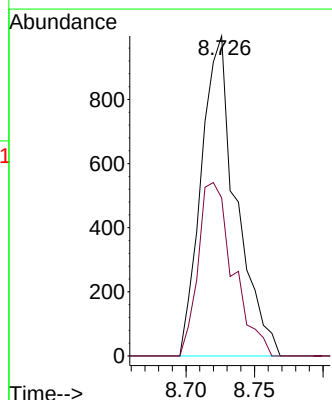
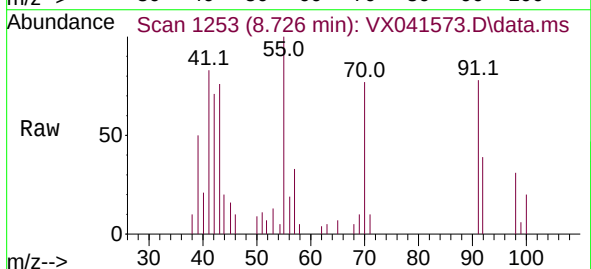
Acq: 16 May 2024 18:56

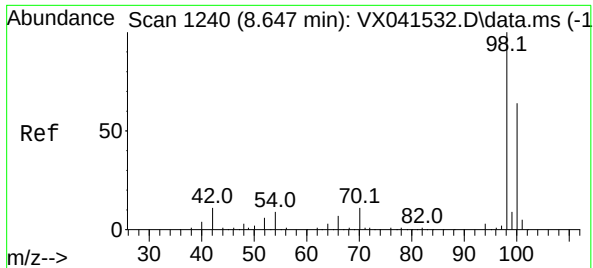
Tgt Ion: 91 Resp: 1771

Ion Ratio Lower Upper

91 100

92 54.5 47.0 70.6

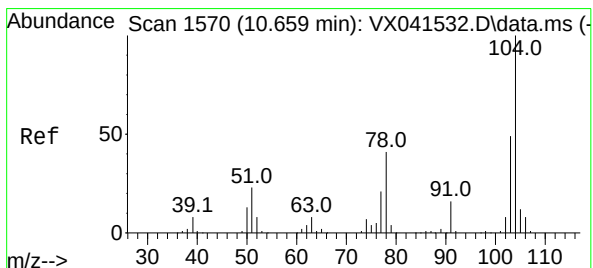
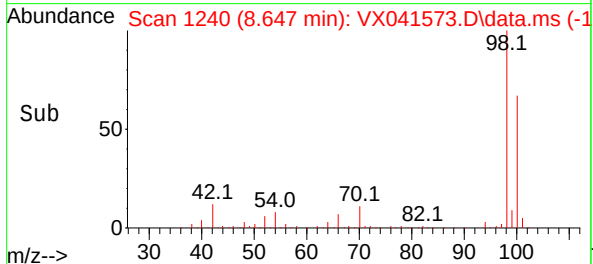
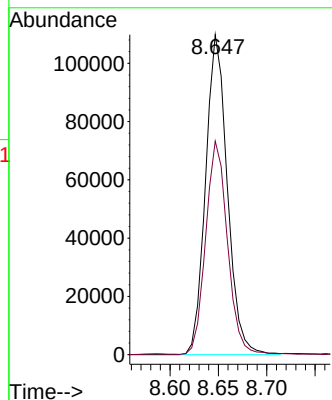
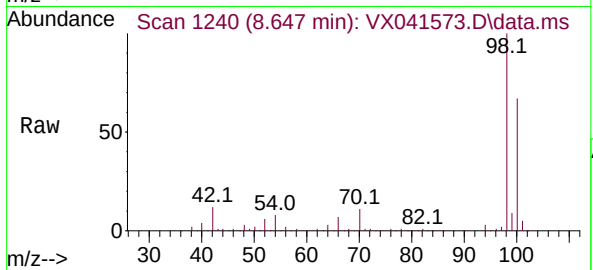




#63
Toluene-d8
Concen: 29.176 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

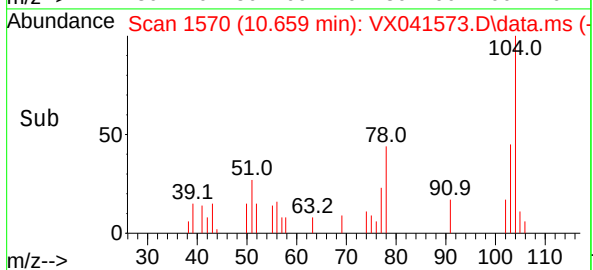
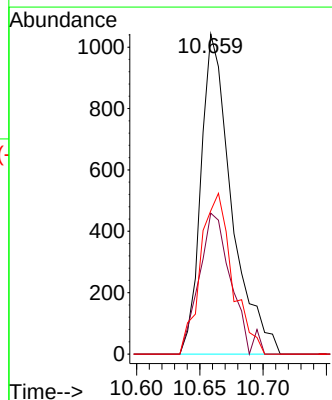
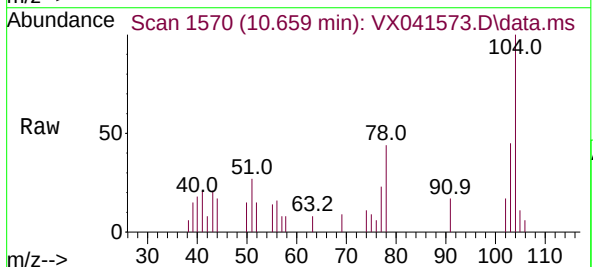
Instrument :
MSVOA_X
ClientSampleId :

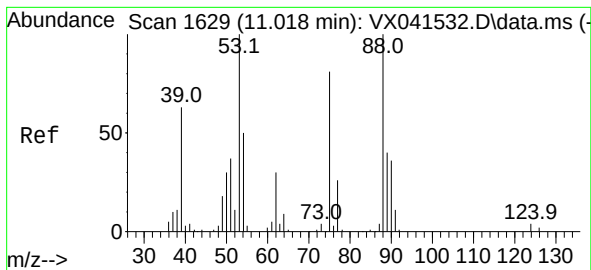
Tgt Ion: 98 Resp: 172217
Ion Ratio Lower Upper
98 100
100 66.7 53.1 79.7



#69
Styrene
Concen: 0.350 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.000 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

Tgt Ion:104 Resp: 1756
Ion Ratio Lower Upper
104 100
78 44.2 39.3 58.9
103 52.0 43.2 64.8

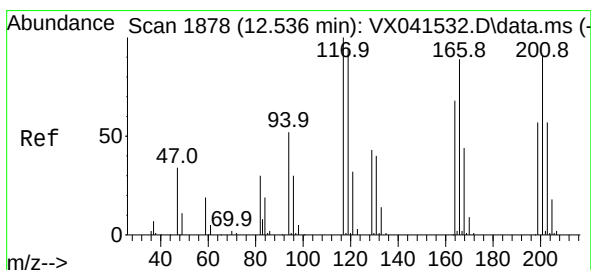
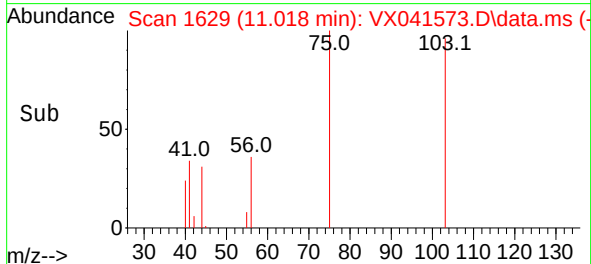
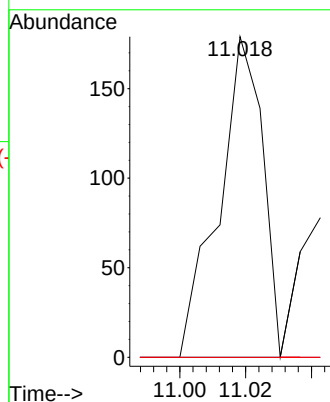
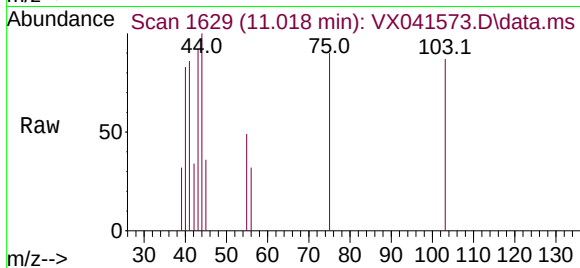




#77
t-1,4-Dichloro-2-butene
Concen: 0.225 ug/l
RT: 11.018 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

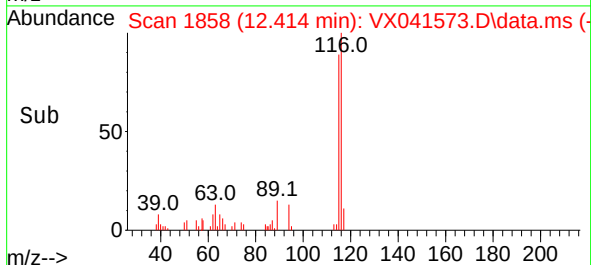
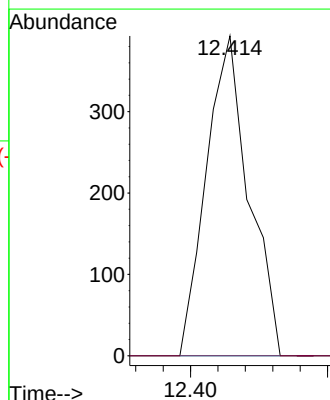
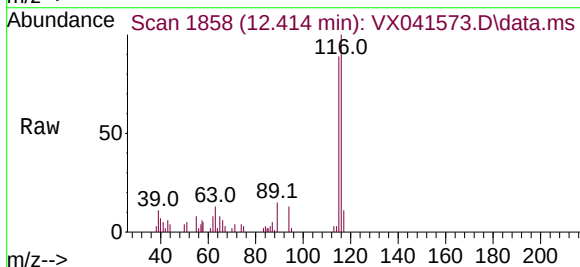
Instrument :
MSVOA_X
ClientSampleId :

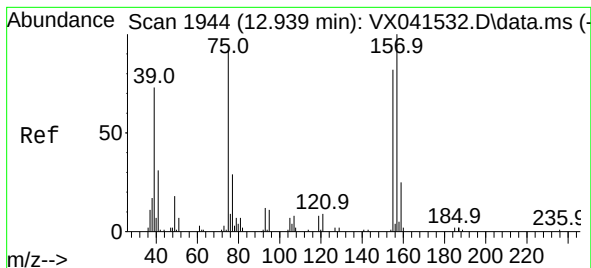
Tgt Ion: 75 Resp: 166
Ion Ratio Lower Upper
75 100
53 0.0 61.8 185.3#
89 0.0 24.9 74.7#



#86
Hexachloroethane
Concen: 0.358 ug/l
RT: 12.414 min Scan# 1858
Delta R.T. -0.122 min
Lab File: VX041573.D
Acq: 16 May 2024 18:56

Tgt Ion:117 Resp: 424
Ion Ratio Lower Upper
117 100
201 0.0 47.3 141.8#





#88

1,2-Dibromo-3-Chloropropane

Concen: 1.352 ug/l

RT: 12.872 min Scan# 1944

Delta R.T. -0.067 min

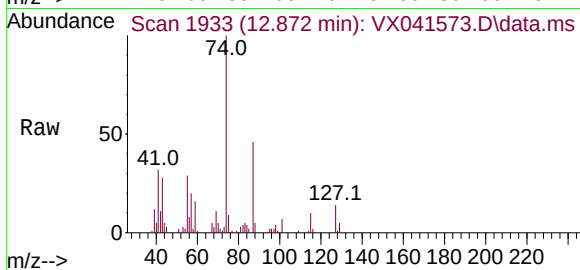
Lab File: VX041573.D

Acq: 16 May 2024 18:56

Instrument :

MSVOA_X

ClientSampleId :



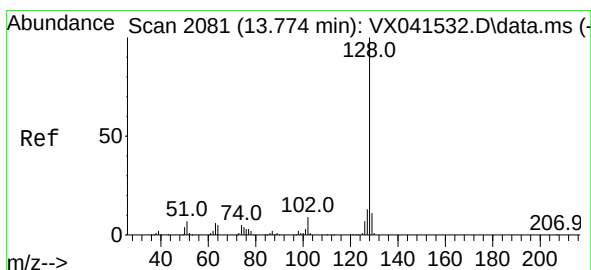
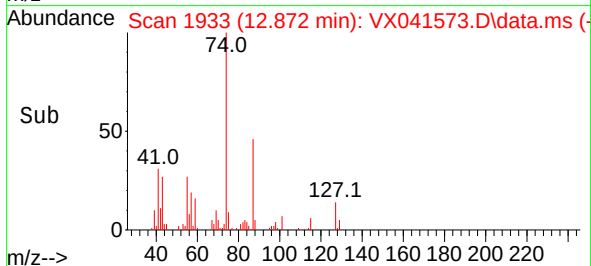
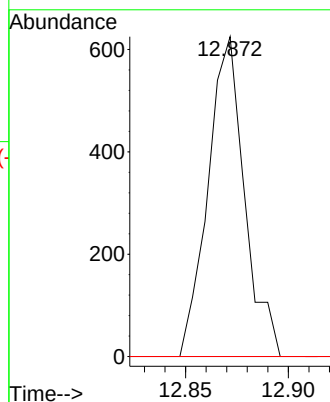
Tgt Ion: 75 Resp: 772

Ion Ratio Lower Upper

75 100

155 0.0 80.4 120.6#

157 0.0 102.2 153.2#



#91

Naphthalene

Concen: 1.290 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX041573.D

Acq: 16 May 2024 18:56

Tgt Ion: 128 Resp: 10545

Ion Ratio Lower Upper

128 100

127 13.7 10.6 16.0

129 11.4 8.8 13.2

