

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051524\
 Data File : VX041545.D
 Acq On : 15 May 2024 17:29
 Operator : JC/MD
 Sample : P2478-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 240502088-03

Quant Time: May 16 05:28:51 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)

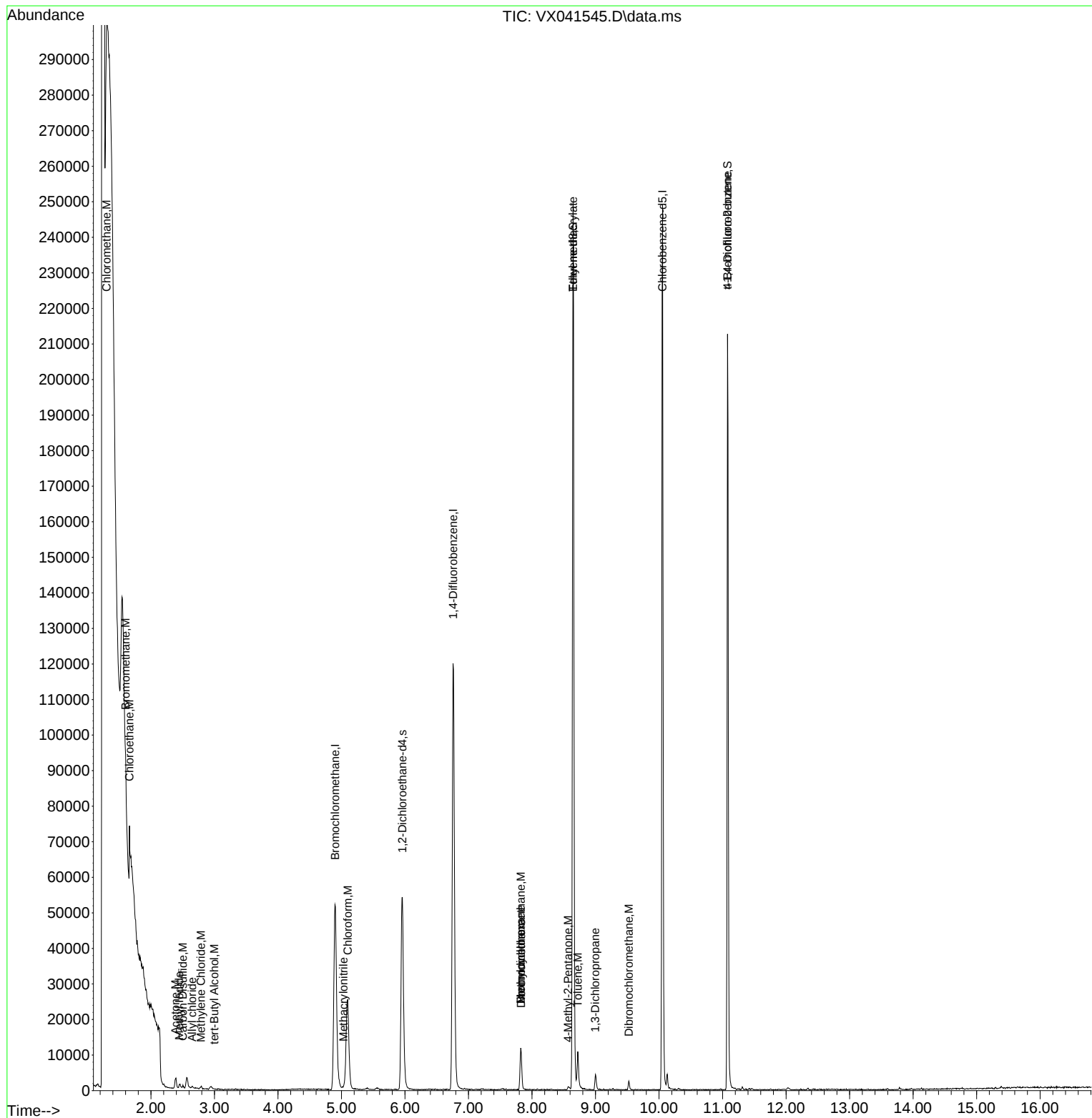
Internal Standards						
1) Bromochloromethane	4.897	128	23120	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	127338	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	115665	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	54398	29.878	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.600%		
60) 4-Bromofluorobenzene	11.079	95	51343	28.435	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.800%		
63) Toluene-d8	8.647	98	147079	29.664	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.867%		
Target Compounds					Qvalue	
3) Chloromethane	1.300	50	5070	3.829	ug/l #	63
5) Bromomethane	1.599	94	3262	3.679	ug/l	94
6) Chloroethane	1.660	64	14013	19.880	ug/l #	43
11) Methyl Iodide	2.447	142	1619	1.149	ug/l	94
15) Acetone	2.386	58	996	4.746	ug/l	89
16) Carbon Disulfide	2.501	76	830	0.311	ug/l #	74
17) Allyl chloride	2.648	41	577	0.275	ug/l #	44
18) Methylene Chloride	2.788	84	381	0.271	ug/l #	65
23) tert-Butyl Alcohol	2.995	59	113	0.340	ug/l #	100
25) Chloroform	5.098	83	30567	11.592	ug/l	99
35) Methacrylonitrile	5.031	41	300	0.266	ug/l #	48
38) Methylcyclohexane	7.824	83	7597	3.552	ug/l #	18
40) Dibromomethane	7.830	93	287	0.290	ug/l #	1
41) Bromodichloromethane	7.824	83	7851	4.225	ug/l	97
51) Ethyl methacrylate	8.647	69	494	0.223	ug/l	92
52) 1,3-Dichloropropane	8.994	76	690	0.303	ug/l #	42
53) Dibromochloromethane	9.525	129	1178	0.752	ug/l	99
58) 4-Methyl-2-Pentanone	8.567	43	1581	0.748	ug/l #	44
62) Toluene	8.720	91	7005	1.217	ug/l	99
77) t-1,4-Dichloro-2-butene	11.079	75	26483	42.786	ug/l #	1

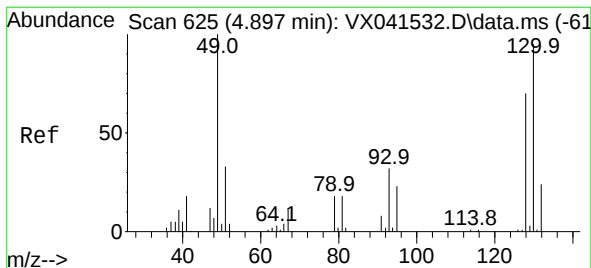
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051524\
Data File : VX041545.D
Acq On : 15 May 2024 17:29
Operator : JC/MD
Sample : P2478-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 19 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
240502088-03

Quant Time: May 16 05:28:51 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: 4.897 min Scan# 61

Delta R.T. 0.000 min

Lab File: VX041545.D

Acq: 15 May 2024 17:29

Instrument :

MSVOA_X

ClientSampleId :

240502088-03

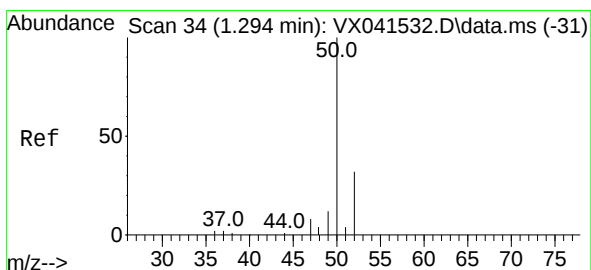
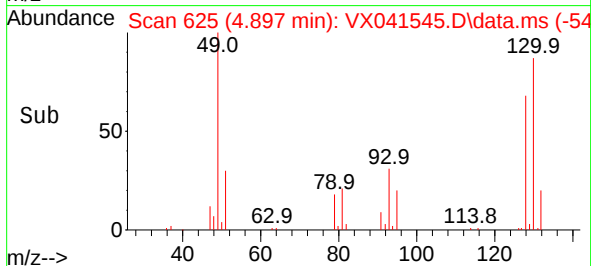
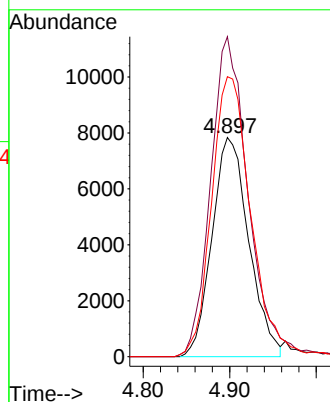
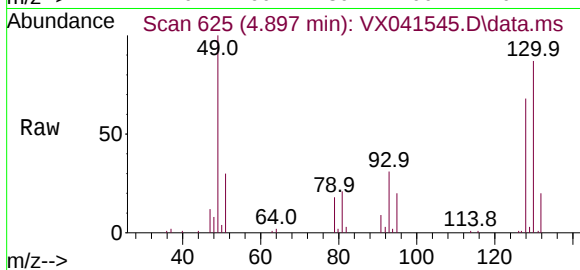
Tgt Ion:128 Resp: 23120

Ion Ratio Lower Upper

128 100

49 150.2 0.0 361.5

130 135.6 0.0 324.3



#3

Chloromethane

Concen: 3.829 ug/l

RT: 1.300 min Scan# 35

Delta R.T. 0.006 min

Lab File: VX041545.D

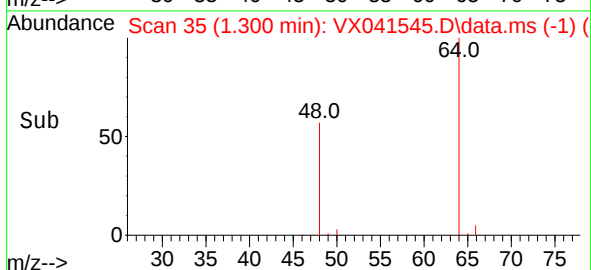
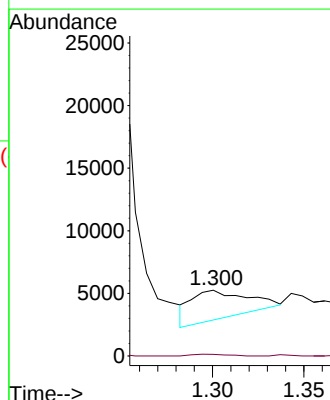
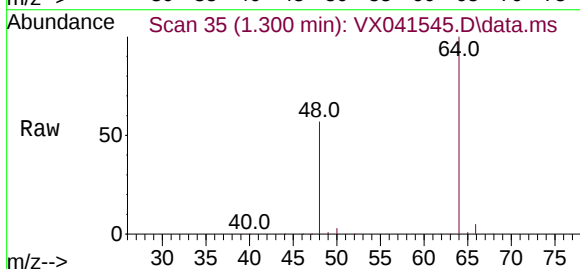
Acq: 15 May 2024 17:29

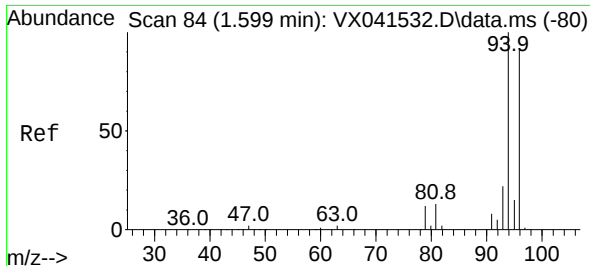
Tgt Ion: 50 Resp: 5070

Ion Ratio Lower Upper

50 100

52 11.4 25.8 38.8#

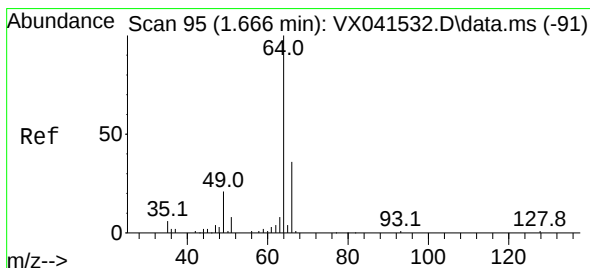
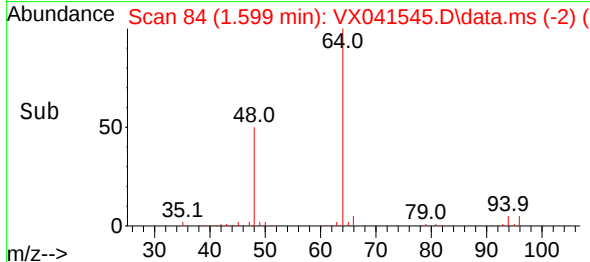
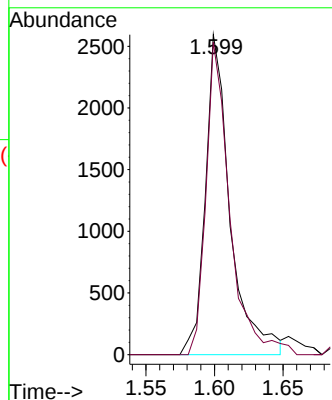
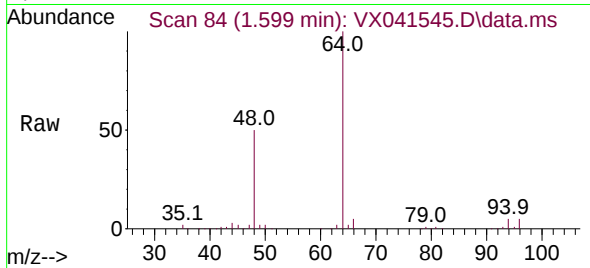




#5
Bromomethane
Concen: 3.679 ug/l
RT: 1.599 min Scan# 84
Delta R.T. -0.000 min
Lab File: VX041545.D
Acq: 15 May 2024 17:29

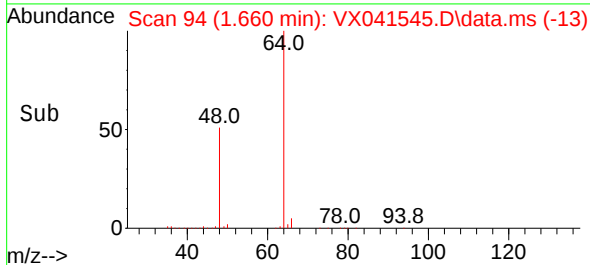
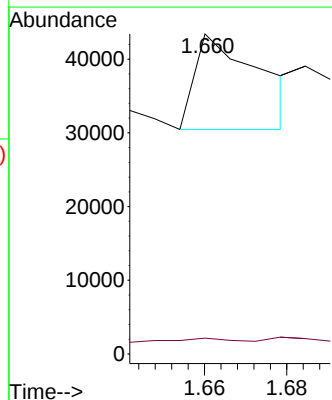
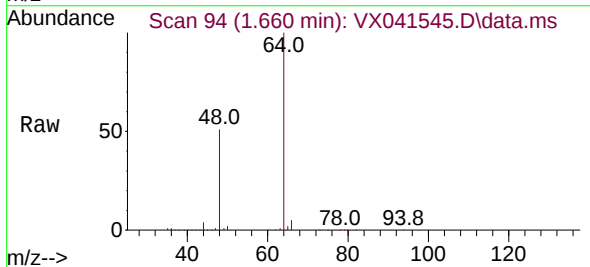
Instrument :
MSVOA_X
ClientSampleId :
240502088-03

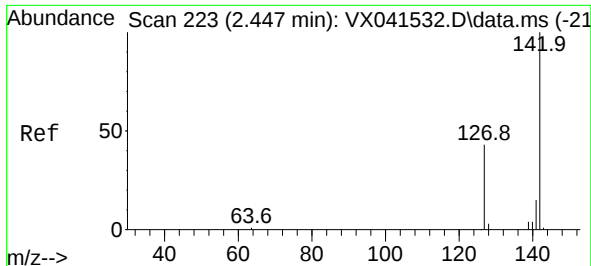
Tgt Ion: 94 Resp: 3262
Ion Ratio Lower Upper
94 100
96 97.7 73.9 110.9



#6
Chloroethane
Concen: 19.880 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX041545.D
Acq: 15 May 2024 17:29

Tgt Ion: 64 Resp: 14013
Ion Ratio Lower Upper
64 100
66 2.5 28.6 42.8#





#11

Methyl Iodide

Concen: 1.149 ug/l

RT: 2.447 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX041545.D

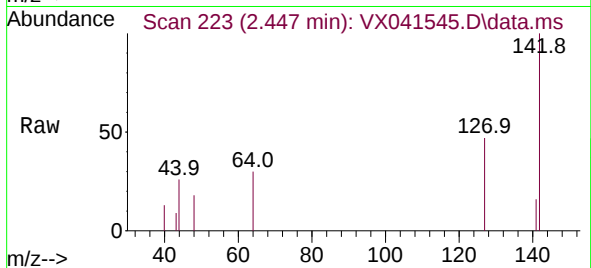
Acq: 15 May 2024 17:29

Instrument :

MSVOA_X

ClientSampleId :

240502088-03



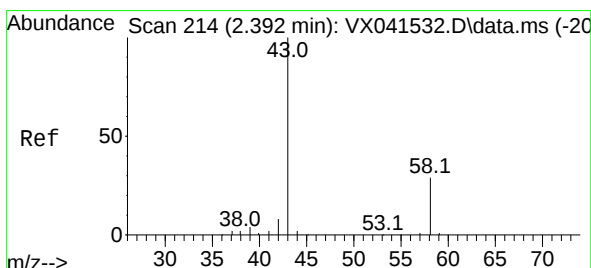
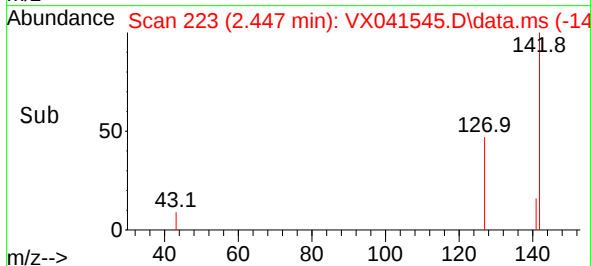
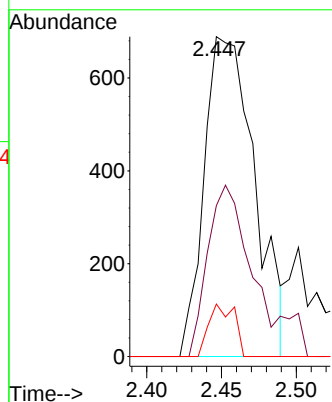
Tgt Ion:142 Resp: 1619

Ion Ratio Lower Upper

142 100

127 45.9 21.4 64.2

141 18.4 7.6 22.8



#15

Acetone

Concen: 4.746 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX041545.D

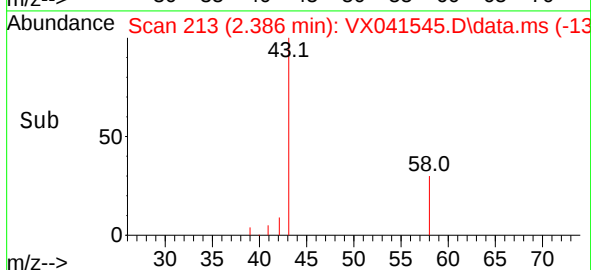
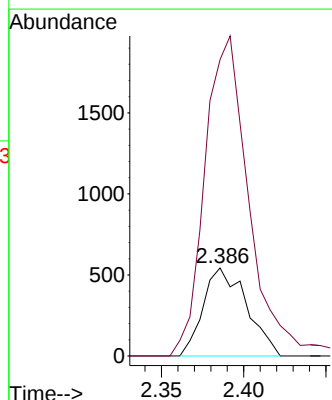
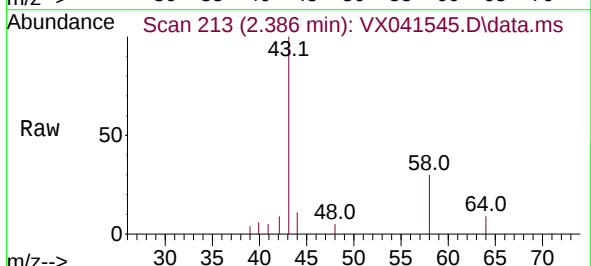
Acq: 15 May 2024 17:29

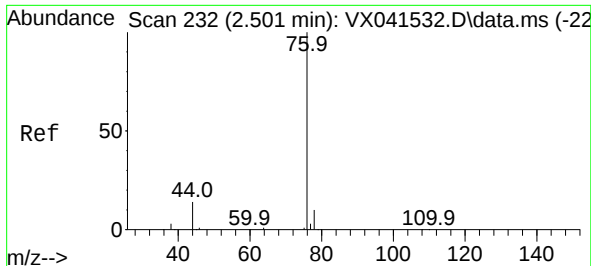
Tgt Ion: 58 Resp: 996

Ion Ratio Lower Upper

58 100

43 319.2 274.0 411.0

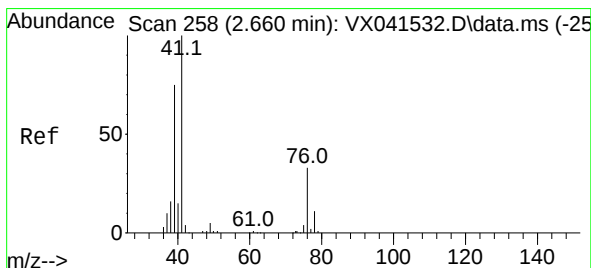
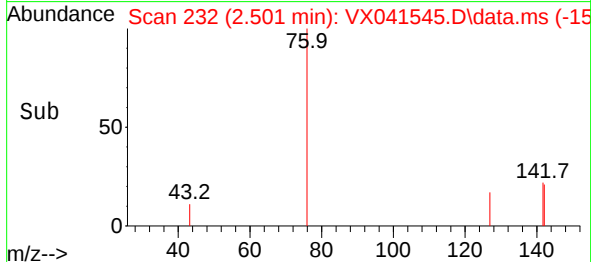
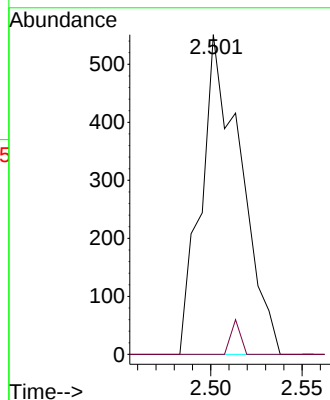
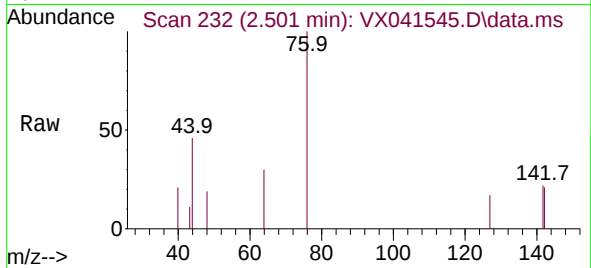




#16
Carbon Disulfide
Concen: 0.311 ug/l
RT: 2.501 min Scan# 241
Delta R.T. -0.000 min
Lab File: VX041545.D
Acq: 15 May 2024 17:29

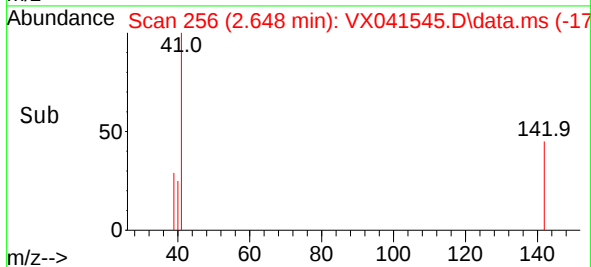
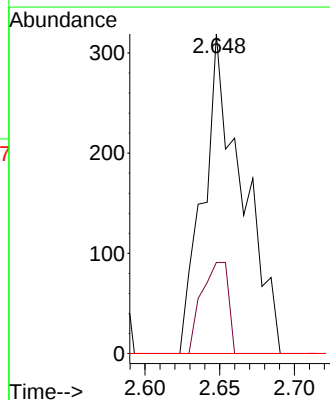
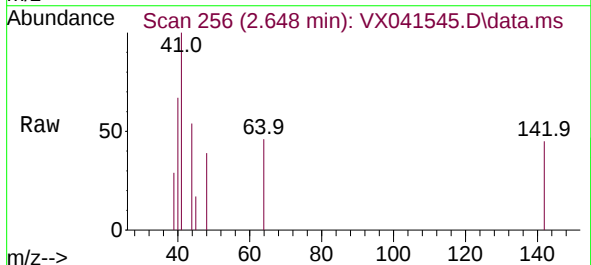
Instrument :
MSVOA_X
ClientSampleId :
240502088-03

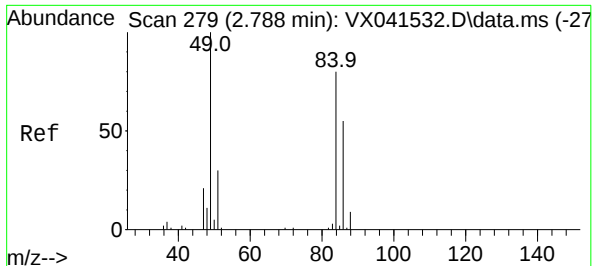
Tgt Ion: 76 Resp: 830
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



#17
Allyl chloride
Concen: 0.275 ug/l
RT: 2.648 min Scan# 256
Delta R.T. -0.012 min
Lab File: VX041545.D
Acq: 15 May 2024 17:29

Tgt Ion: 41 Resp: 577
Ion Ratio Lower Upper
41 100
39 28.5 37.5 112.7#
76 0.0 16.6 49.8#





#18

Methylene Chloride

Concen: 0.271 ug/l

RT: 2.788 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX041545.D

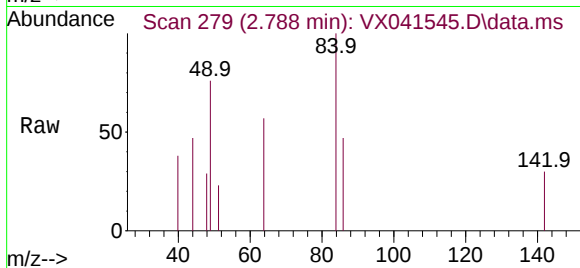
Acq: 15 May 2024 17:29

Instrument :

MSVOA_X

ClientSampleId :

240502088-03



Tgt Ion: 84 Resp: 381

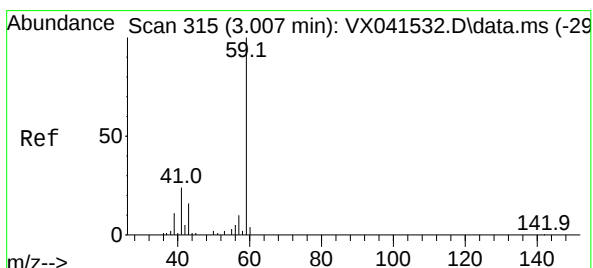
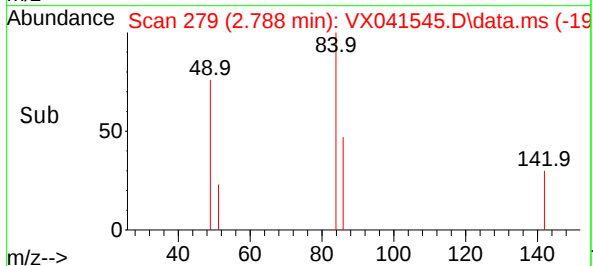
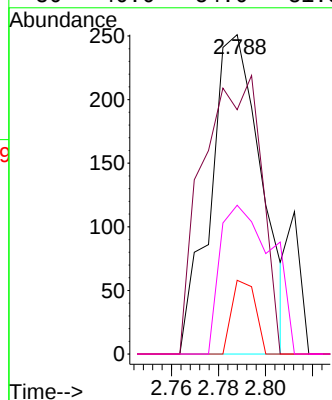
Ion Ratio Lower Upper

84 100

49 76.5 99.8 149.8#

51 23.1 30.2 45.4#

86 46.6 54.6 81.8#



#23

tert-Butyl Alcohol

Concen: 0.340 ug/l

RT: 2.995 min Scan# 313

Delta R.T. -0.012 min

Lab File: VX041545.D

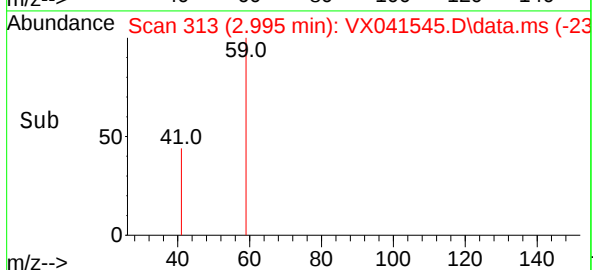
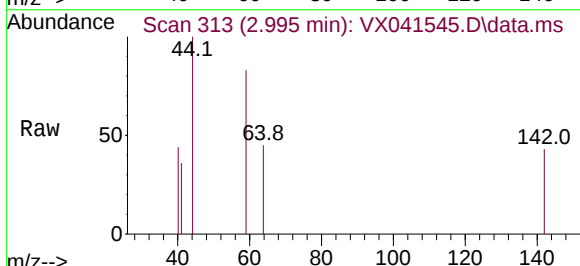
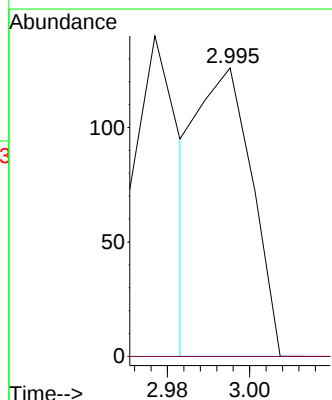
Acq: 15 May 2024 17:29

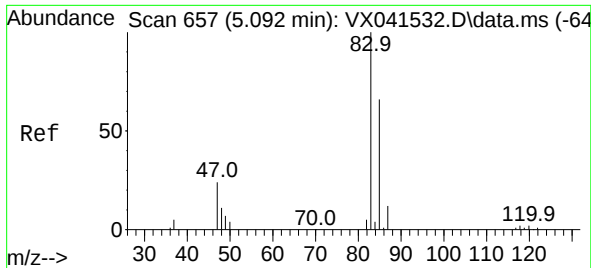
Tgt Ion: 59 Resp: 113

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0





#25

Chloroform

Concen: 11.592 ug/l

RT: 5.098 min Scan# 657

Delta R.T. 0.006 min

Lab File: VX041545.D

Acq: 15 May 2024 17:29

Instrument :

MSVOA_X

ClientSampleId :

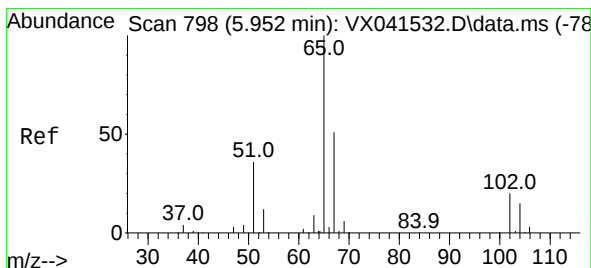
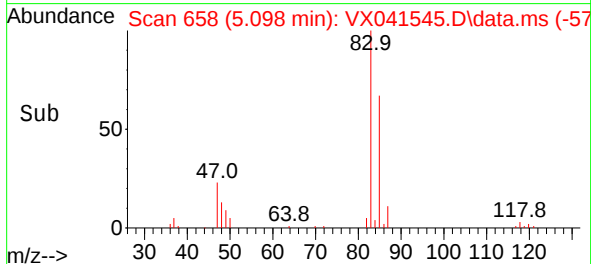
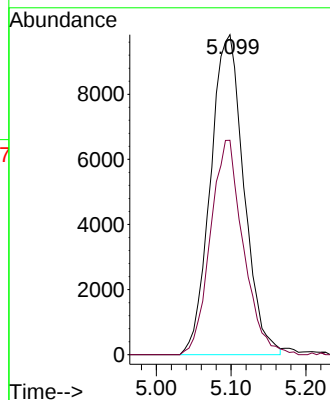
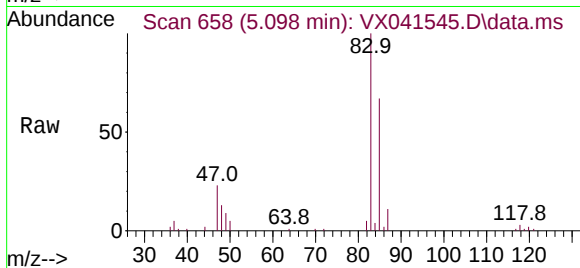
240502088-03

Tgt Ion: 83 Resp: 30567

Ion Ratio Lower Upper

83 100

85 67.0 52.9 79.3



#27

1,2-Dichloroethane-d4

Concen: 29.878 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.006 min

Lab File: VX041545.D

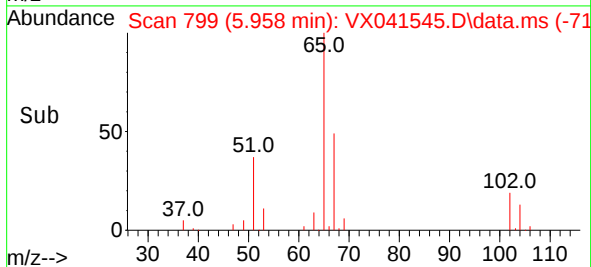
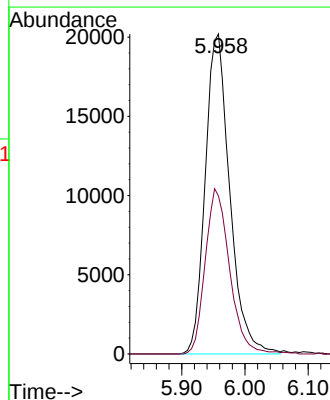
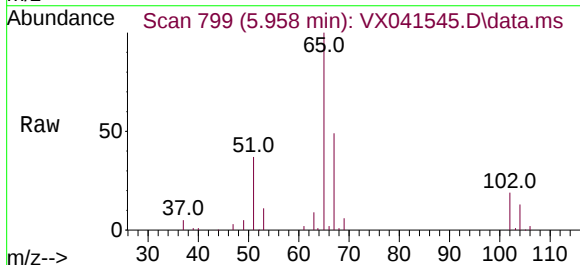
Acq: 15 May 2024 17:29

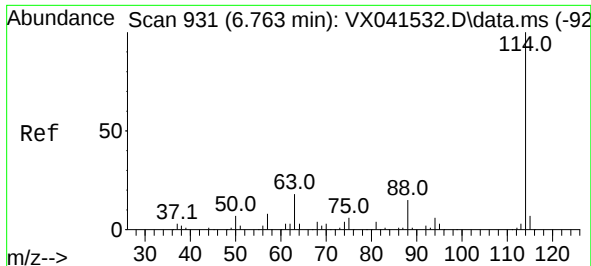
Tgt Ion: 65 Resp: 54398

Ion Ratio Lower Upper

65 100

67 51.1 40.8 61.2

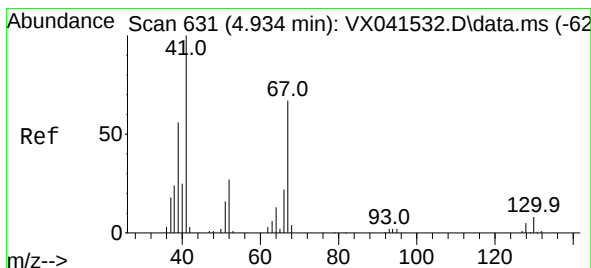
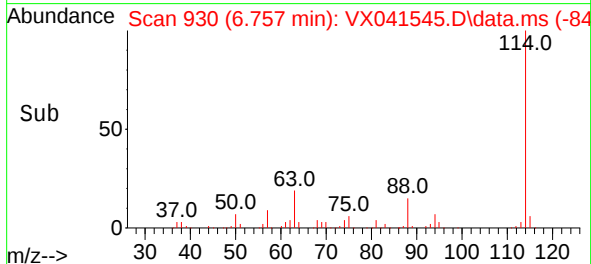
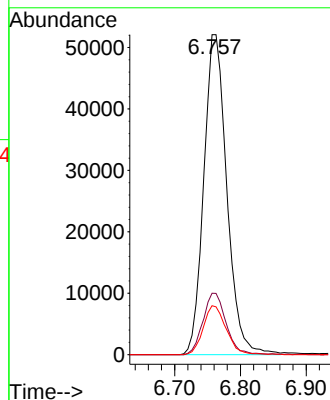
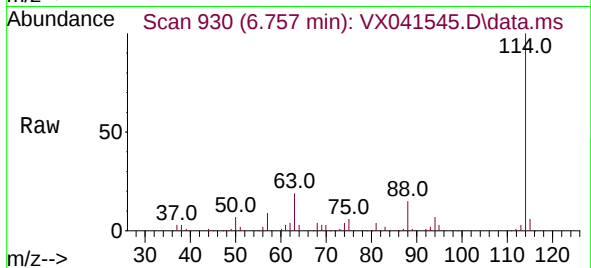




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.006 min
Lab File: VX041545.D
Acq: 15 May 2024 17:29

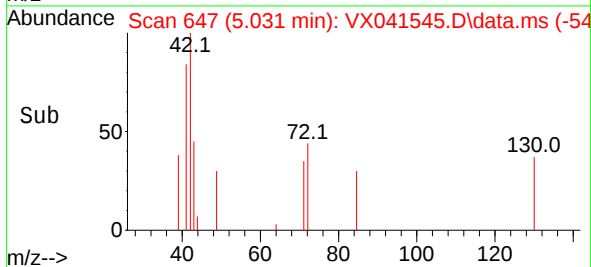
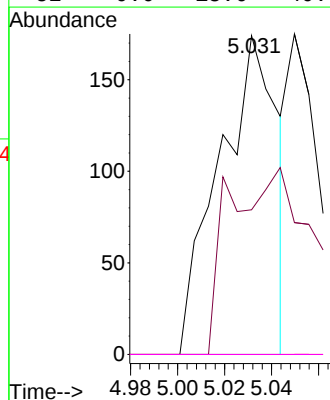
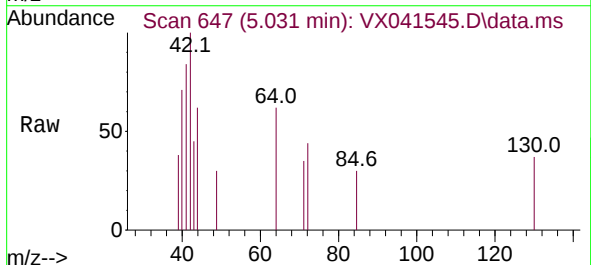
Instrument :
MSVOA_X
ClientSampleId :
240502088-03

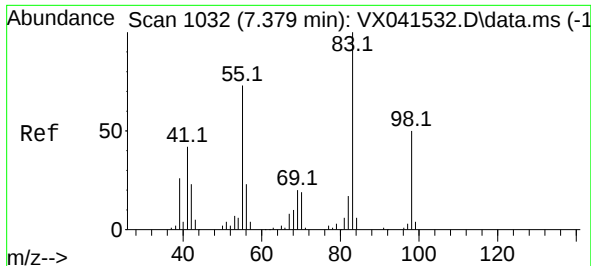
Tgt Ion:114 Resp: 127338
Ion Ratio Lower Upper
114 100
63 19.0 15.4 23.0
88 15.2 12.2 18.2



#35
Methacrylonitrile
Concen: 0.266 ug/l
RT: 5.031 min Scan# 647
Delta R.T. 0.098 min
Lab File: VX041545.D
Acq: 15 May 2024 17:29

Tgt Ion: 41 Resp: 300
Ion Ratio Lower Upper
41 100
39 45.4 28.1 84.4
67 0.0 33.7 101.1#
52 0.0 13.6 40.8#

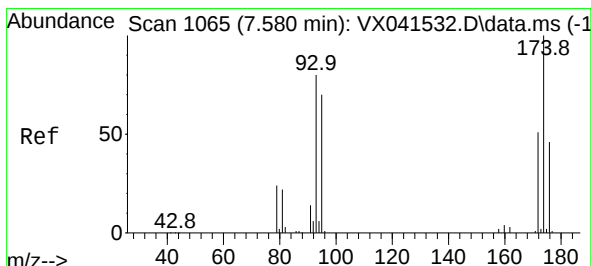
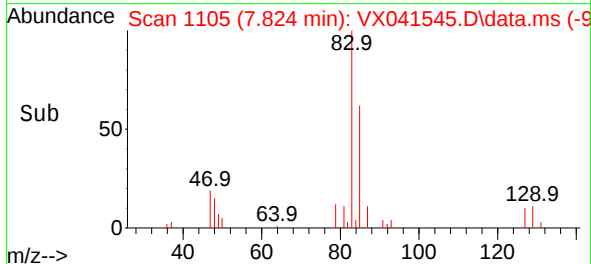
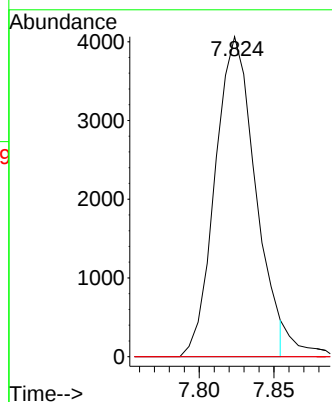
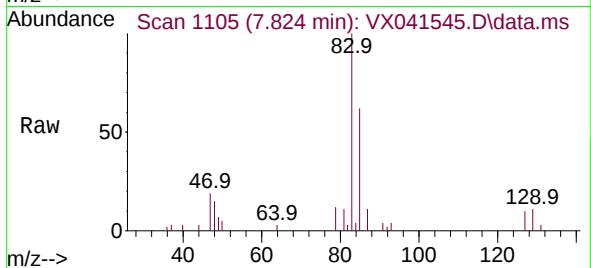




#38
Methylcyclohexane
Concen: 3.552 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.445 min
Lab File: VX041545.D
Acq: 15 May 2024 17:29

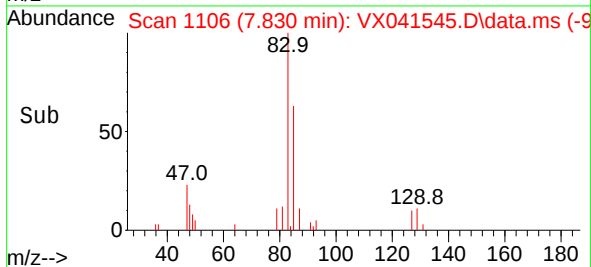
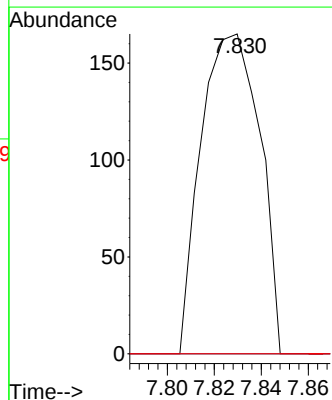
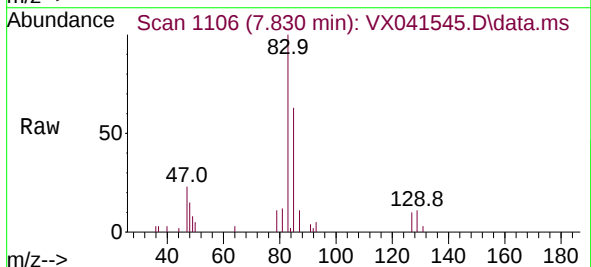
Instrument :
MSVOA_X
ClientSampleId :
240502088-03

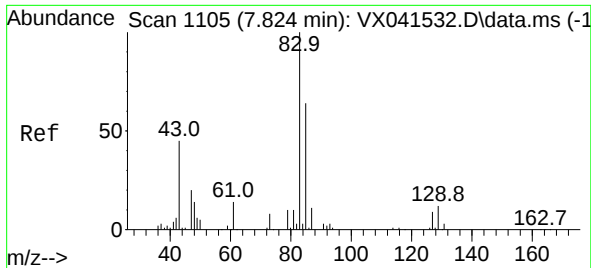
Tgt Ion: 83 Resp: 7597
Ion Ratio Lower Upper
83 100
55 0.0 37.7 113.1#
98 0.0 25.1 75.3#



#40
Dibromomethane
Concen: 0.290 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.250 min
Lab File: VX041545.D
Acq: 15 May 2024 17:29

Tgt Ion: 93 Resp: 287
Ion Ratio Lower Upper
93 100
95 0.0 0.0 168.6
174 0.0 0.0 249.8

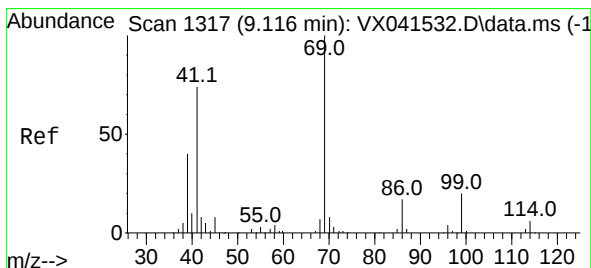
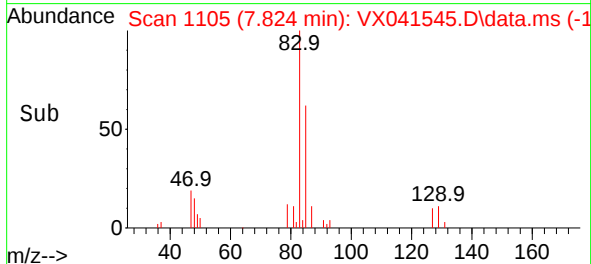
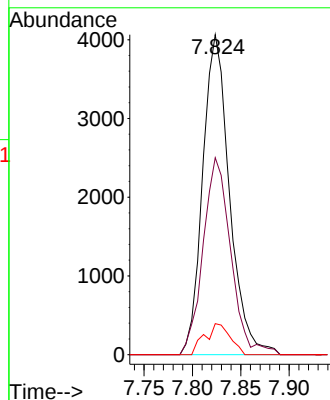
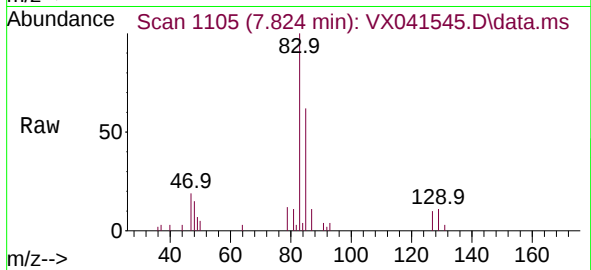




#41
Bromodichloromethane
Concen: 4.225 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. -0.000 min
Lab File: VX041545.D
Acq: 15 May 2024 17:29

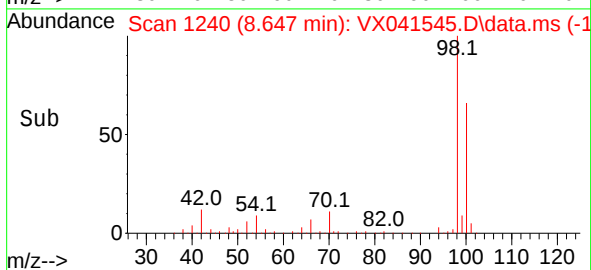
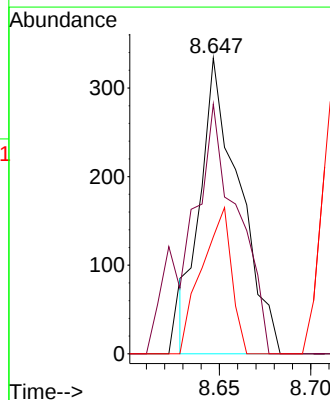
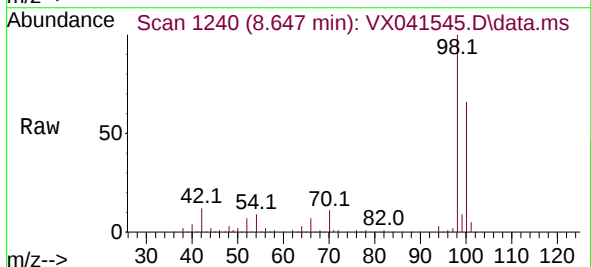
Instrument :
MSVOA_X
ClientSampleId :
240502088-03

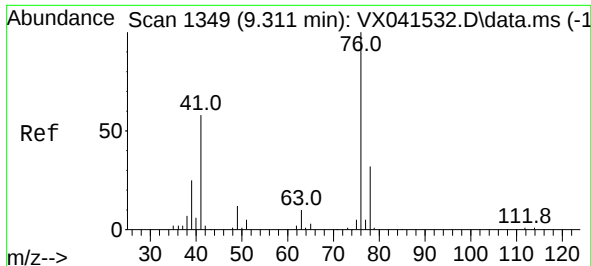
Tgt Ion:	83	Resp:	7851
Ion	Ratio	Lower	Upper
83	100		
85	61.6	51.0	76.4
127	9.7	7.1	10.7



#51
Ethyl methacrylate
Concen: 0.223 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. -0.469 min
Lab File: VX041545.D
Acq: 15 May 2024 17:29

Tgt Ion:	69	Resp:	494
Ion	Ratio	Lower	Upper
69	100		
41	84.4	37.1	111.3
39	39.5	20.2	60.6





#52

1,3-Dichloropropane

Concen: 0.303 ug/l

RT: 8.994 min Scan# 1297

Delta R.T. -0.317 min

Lab File: VX041545.D

Acq: 15 May 2024 17:29

Instrument :

MSVOA_X

ClientSampleId :

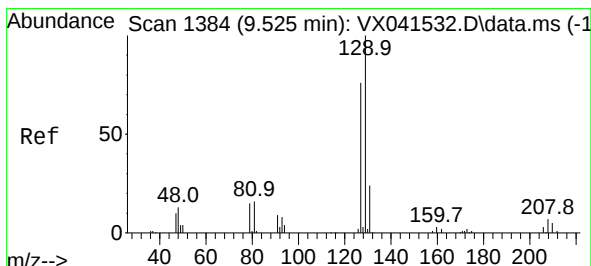
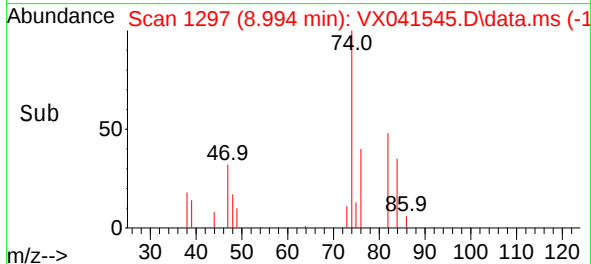
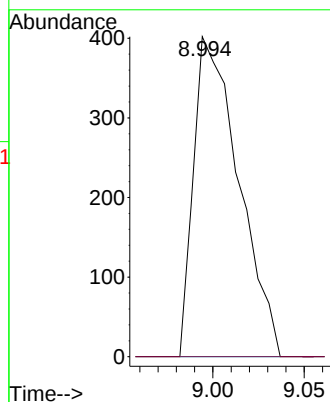
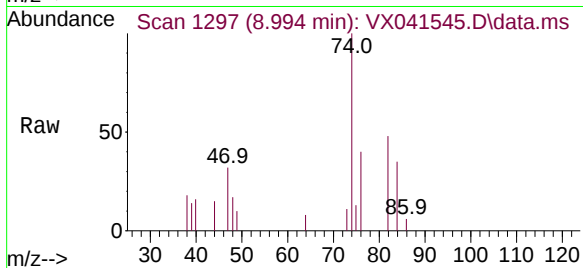
240502088-03

Tgt Ion: 76 Resp: 690

Ion Ratio Lower Upper

76 100

78 0.0 0.0 64.4



#53

Dibromochloromethane

Concen: 0.752 ug/l

RT: 9.525 min Scan# 1384

Delta R.T. -0.000 min

Lab File: VX041545.D

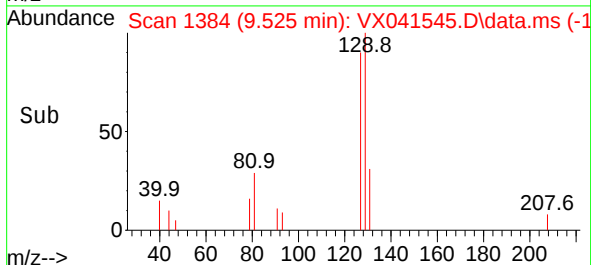
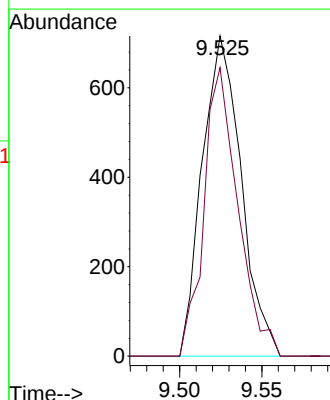
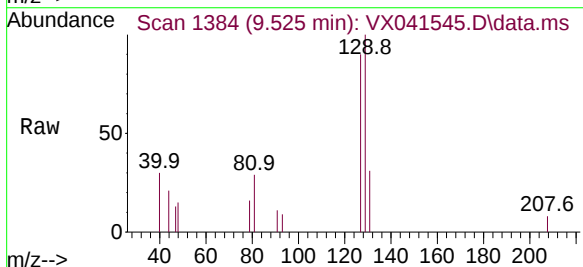
Acq: 15 May 2024 17:29

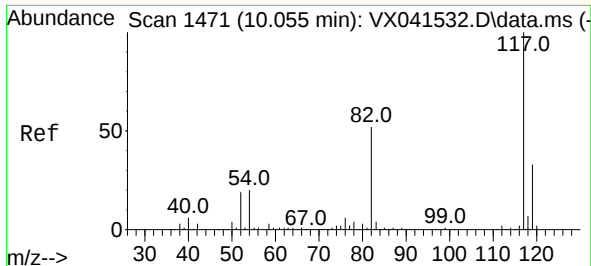
Tgt Ion: 129 Resp: 1178

Ion Ratio Lower Upper

129 100

127 78.7 38.9 116.7

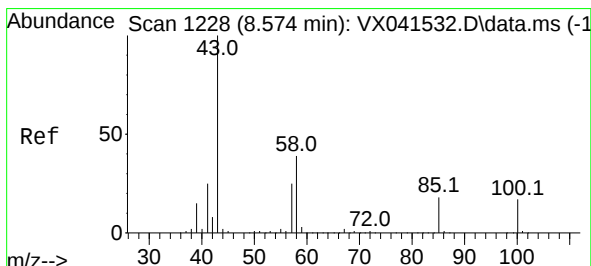
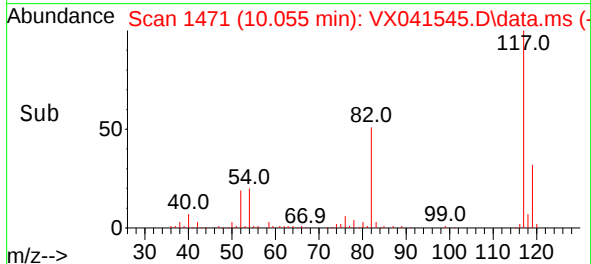
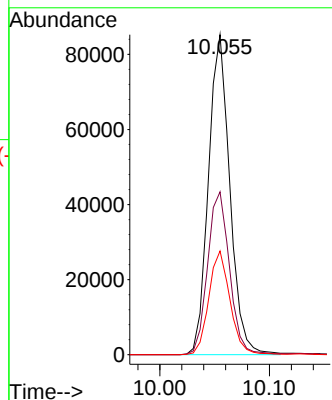
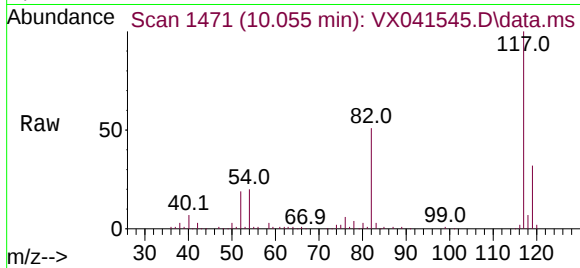




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX041545.D
Acq: 15 May 2024 17:29

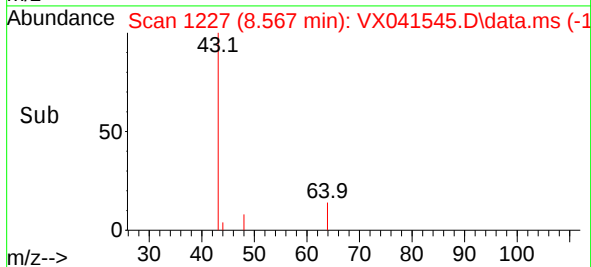
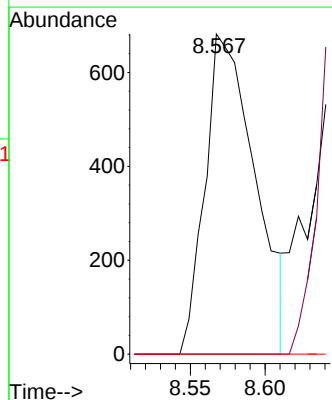
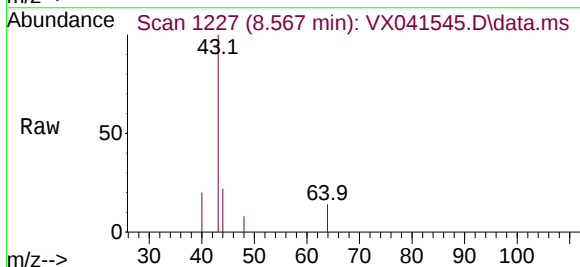
Instrument :
MSVOA_X
ClientSampleId :
240502088-03

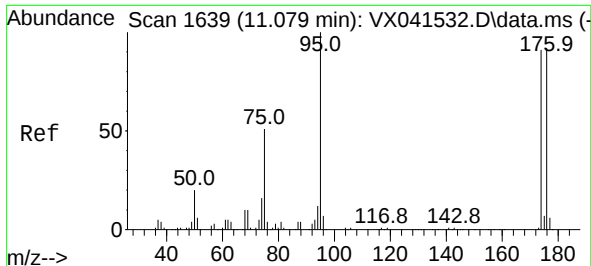
Tgt Ion:117 Resp: 115665
Ion Ratio Lower Upper
117 100
82 52.3 41.7 62.5
119 32.2 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 0.748 ug/l
RT: 8.567 min Scan# 1227
Delta R.T. -0.006 min
Lab File: VX041545.D
Acq: 15 May 2024 17:29

Tgt Ion: 43 Resp: 1581
Ion Ratio Lower Upper
43 100
58 0.0 30.2 45.4#
85 0.0 14.6 21.8#





#60

4-Bromofluorobenzene

Concen: 28.435 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX041545.D

Acq: 15 May 2024 17:29

Instrument :

MSVOA_X

ClientSampleId :

240502088-03

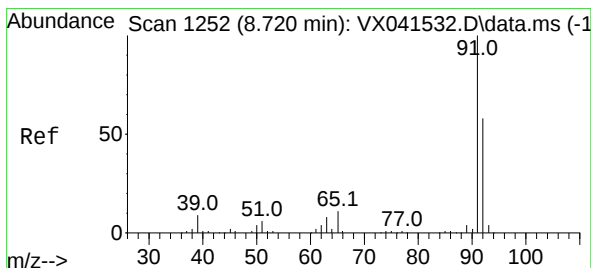
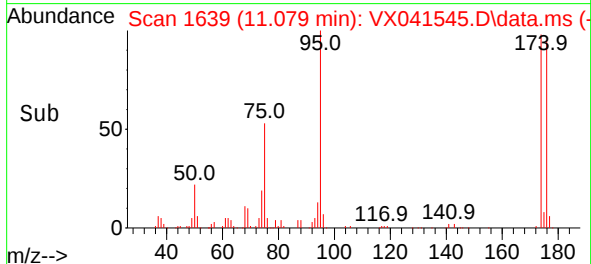
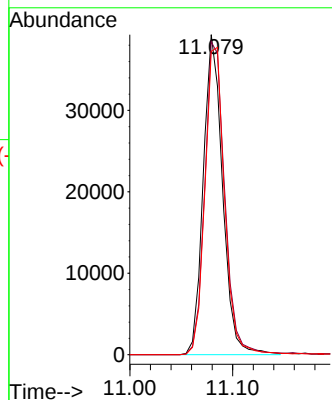
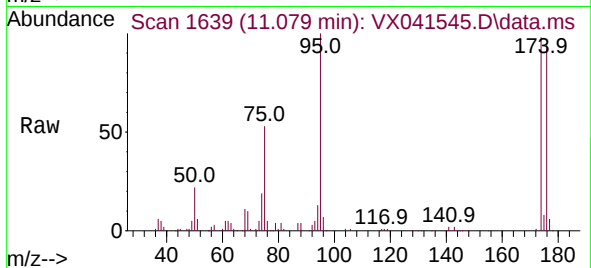
Tgt Ion: 95 Resp: 51343

Ion Ratio Lower Upper

95 100

174 101.0 76.6 115.0

176 98.0 75.4 113.0



#62

Toluene

Concen: 1.217 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.000 min

Lab File: VX041545.D

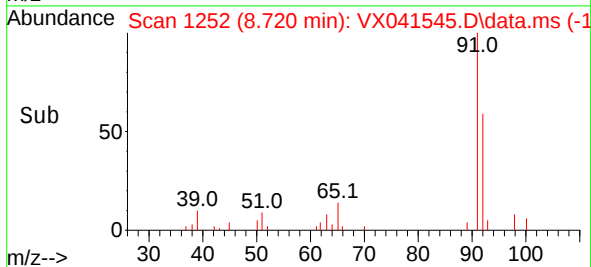
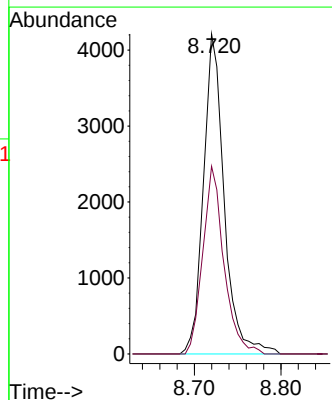
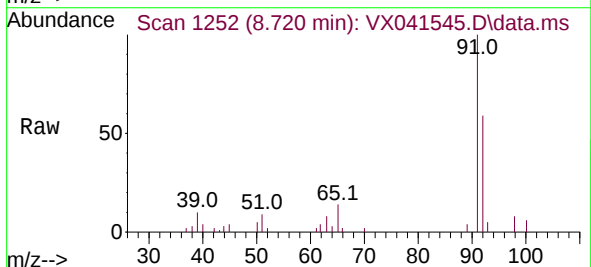
Acq: 15 May 2024 17:29

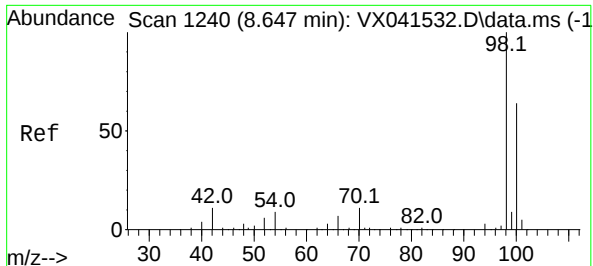
Tgt Ion: 91 Resp: 7005

Ion Ratio Lower Upper

91 100

92 59.8 47.0 70.6





#63

Toluene-d8

Concen: 29.664 ug/l

RT: 8.647 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX041545.D

Acq: 15 May 2024 17:29

Instrument :

MSVOA_X

ClientSampleId :

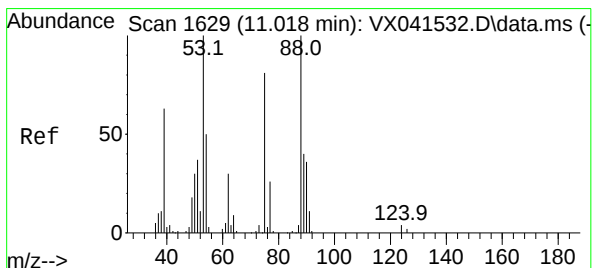
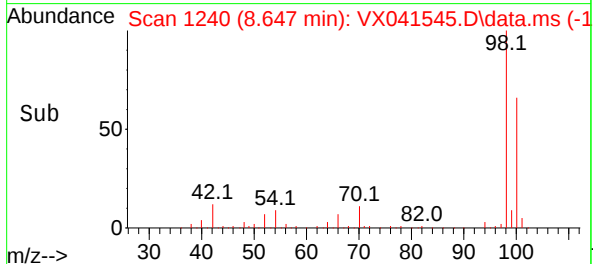
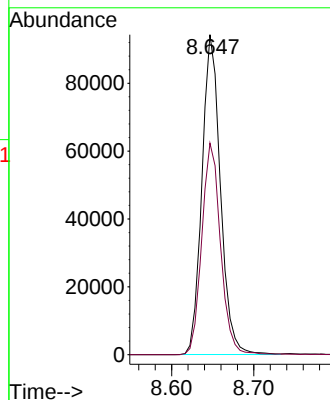
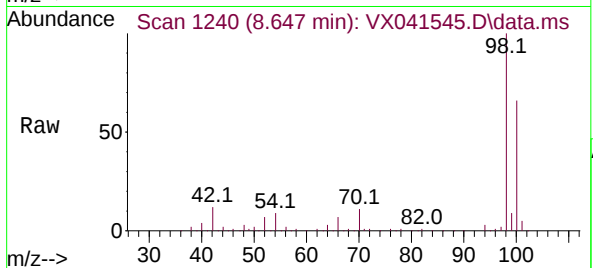
240502088-03

Tgt Ion: 98 Resp: 147079

Ion Ratio Lower Upper

98 100

100 66.9 53.1 79.7



#77

t-1,4-Dichloro-2-butene

Concen: 42.786 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX041545.D

Acq: 15 May 2024 17:29

Tgt Ion: 75 Resp: 26483

Ion Ratio Lower Upper

75 100

53 0.0 61.8 185.3#

89 0.0 24.9 74.7#

