

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061724\
 Data File : VX041907.D
 Acq On : 17 Jun 2024 14:11
 Operator : JC/MD
 Sample : P2908-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jun 18 02:07:50 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

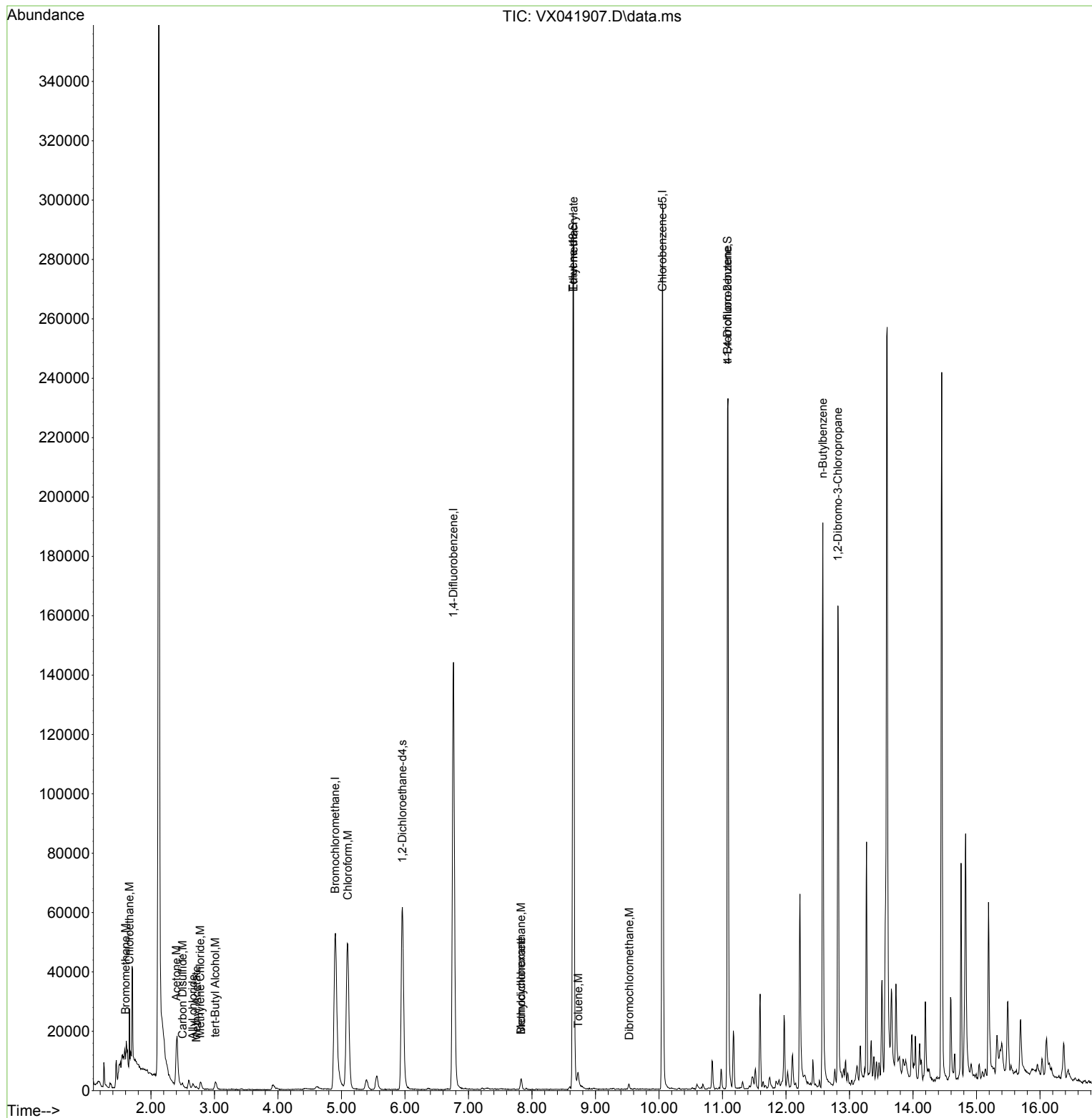
Internal Standards						
1) Bromochloromethane	4.898	128	29018	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	158533	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	144916	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	60191	30.132	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.433%
60) 4-Bromofluorobenzene	11.079	95	63373	28.251	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.167%
63) Toluene-d8	8.647	98	184898	29.822	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.400%
Target Compounds						
					Qvalue	
5) Bromomethane	1.599	94	272	0.248	ug/l	92
6) Chloroethane	1.660	64	5546	6.322	ug/l #	50
12) Methyl Acetate	2.715	43	723	0.320	ug/l	99
15) Acetone	2.398	58	4138	13.479	ug/l	97
16) Carbon Disulfide	2.496	76	1145	0.295	ug/l #	94
17) Allyl chloride	2.660	41	2013	0.747	ug/l #	48
18) Methylene Chloride	2.776	84	1300	0.639	ug/l #	84
23) tert-Butyl Alcohol	3.014	59	3355	8.409	ug/l #	100
25) Chloroform	5.099	83	63161	19.653	ug/l	98
38) Methylcyclohexane	7.830	83	2535	0.925	ug/l #	18
41) Bromodichloromethane	7.830	83	2646	1.216	ug/l	95
51) Ethyl methacrylate	8.653	69	563	0.201	ug/l	79
53) Dibromochloromethane	9.531	129	916	0.474	ug/l	89
62) Toluene	8.726	91	3441	0.469	ug/l	96
77) t-1,4-Dichloro-2-butene	11.079	75	28873	34.443	ug/l #	7
85) n-Butylbenzene	12.579	91	1776	0.313	ug/l	48
88) 1,2-Dibromo-3-Chloropr...	12.817	75	122	0.211	ug/l #	31

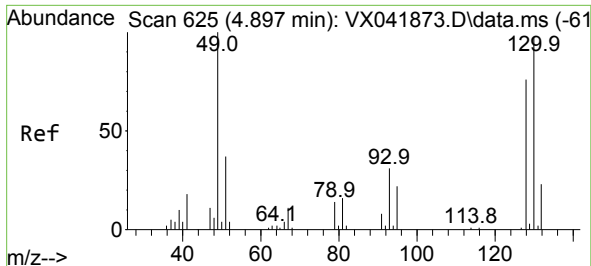
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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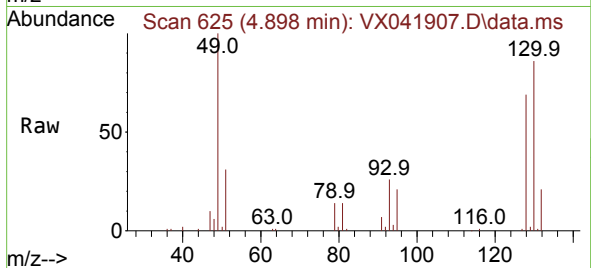
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jun 15 04:02:59 2024
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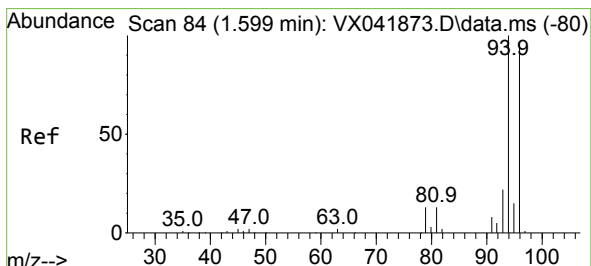
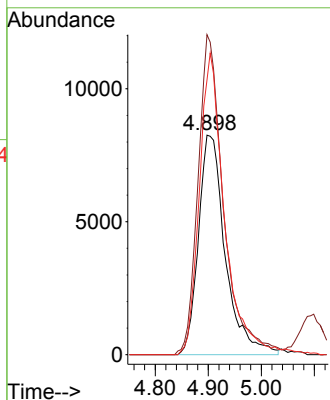
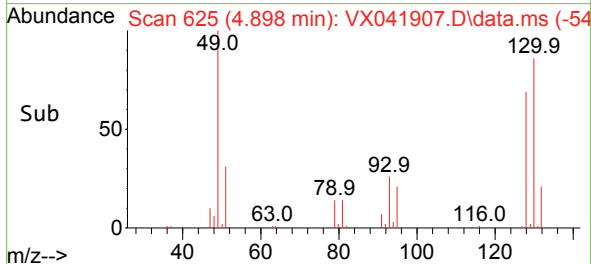


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. 0.001 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

Instrument :
MSVOA_X
ClientSampleId :

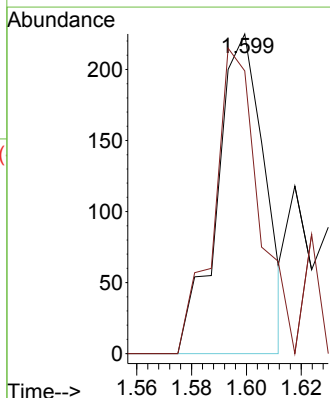
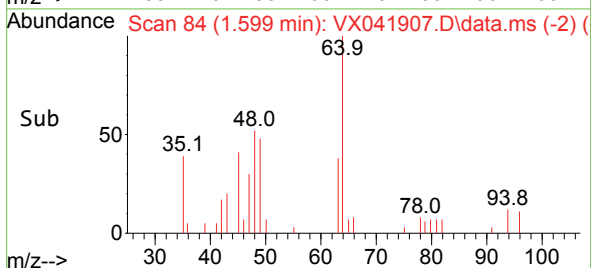
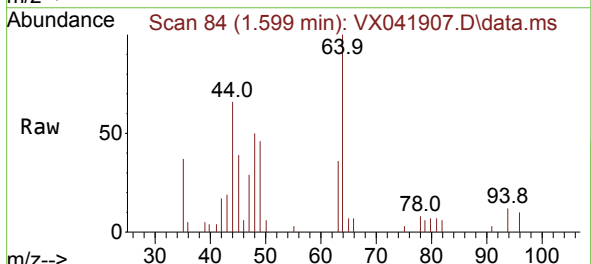


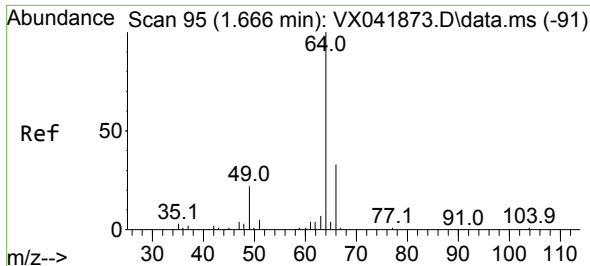
Tgt Ion:128 Resp: 29018
Ion Ratio Lower Upper
128 100
49 137.2 0.0 338.5
130 127.3 0.0 324.5



#5
Bromomethane
Concen: 0.248 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

Tgt Ion: 94 Resp: 272
Ion Ratio Lower Upper
94 100
96 88.4 76.6 115.0

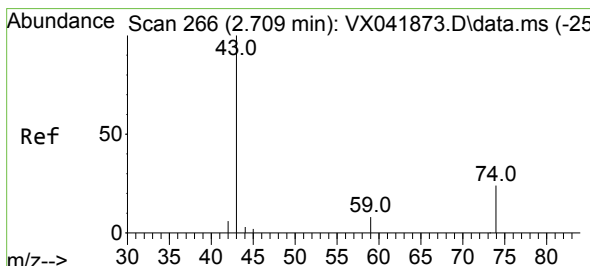
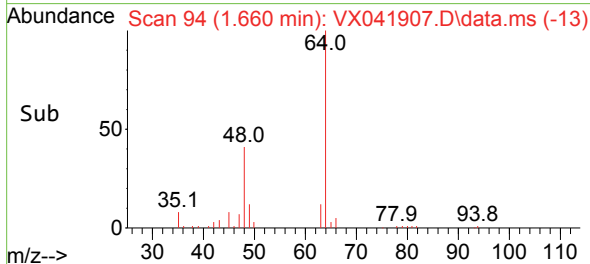
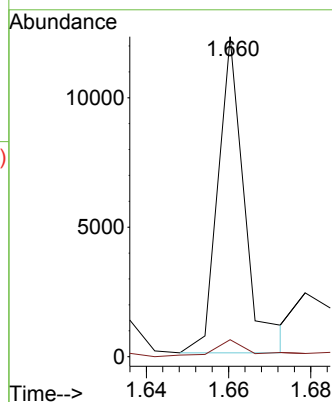
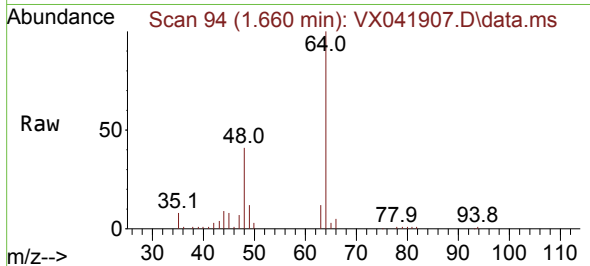




#6
Chloroethane
Concen: 6.322 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.006 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

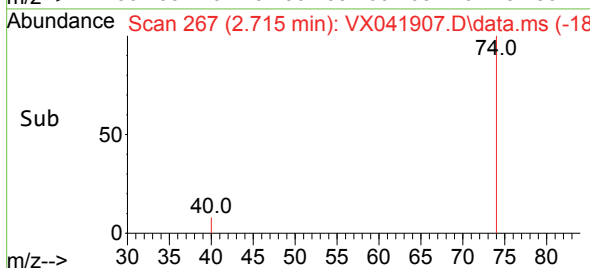
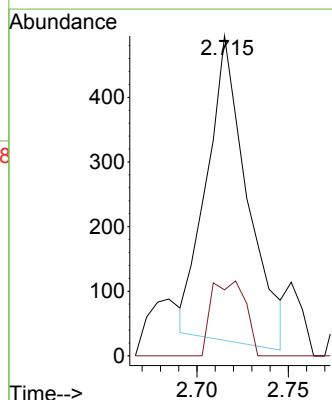
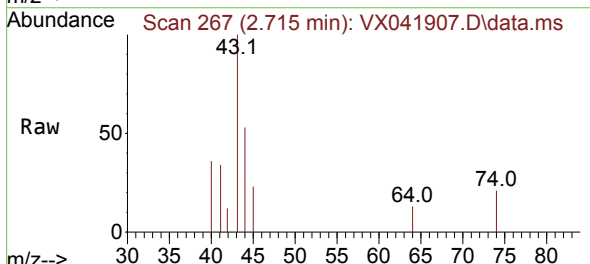
Instrument :
MSVOA_X
ClientSampleId :

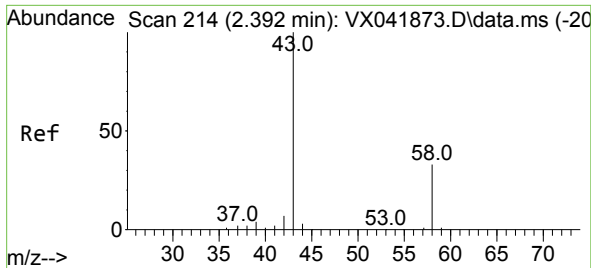
Tgt Ion: 64 Resp: 5546
Ion Ratio Lower Upper
64 100
66 4.9 26.4 39.6#



#12
Methyl Acetate
Concen: 0.320 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.006 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

Tgt Ion: 43 Resp: 723
Ion Ratio Lower Upper
43 100
74 24.6 19.4 29.2





#15

Acetone

Concen: 13.479 ug/l

RT: 2.398 min Scan# 214

Delta R.T. 0.006 min

Lab File: VX041907.D

Acq: 17 Jun 2024 14:11

Instrument :

MSVOA_X

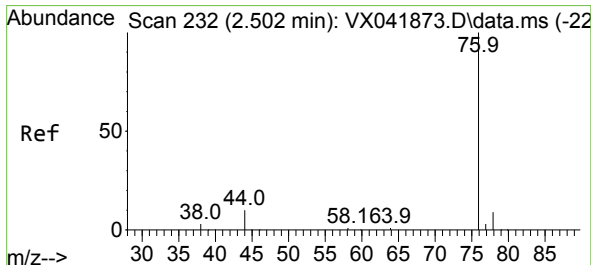
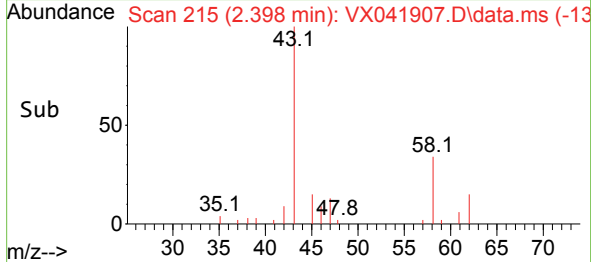
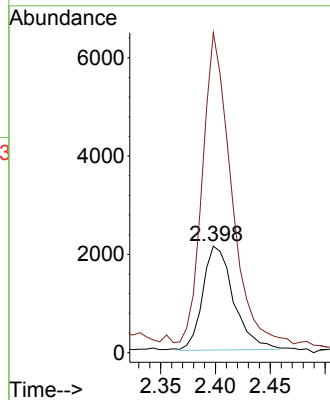
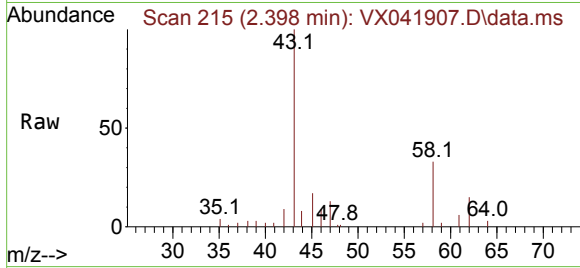
ClientSampleId :

Tgt Ion: 58 Resp: 4138

Ion Ratio Lower Upper

58 100

43 299.3 243.4 365.2



#16

Carbon Disulfide

Concen: 0.295 ug/l

RT: 2.496 min Scan# 231

Delta R.T. -0.006 min

Lab File: VX041907.D

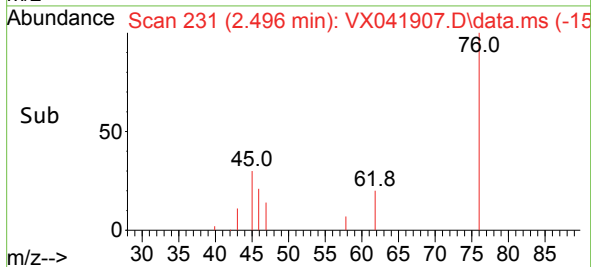
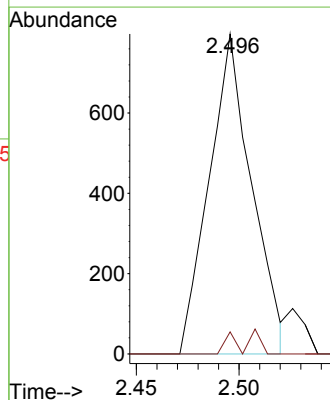
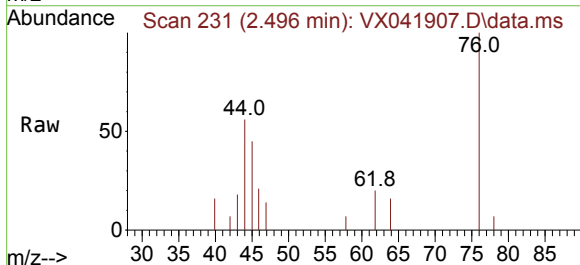
Acq: 17 Jun 2024 14:11

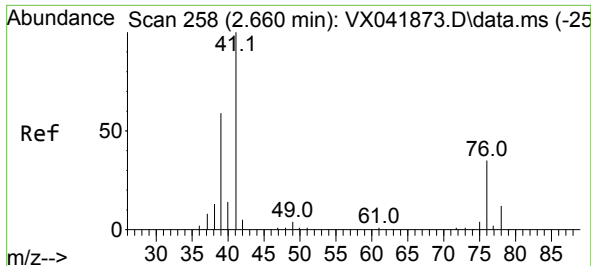
Tgt Ion: 76 Resp: 1145

Ion Ratio Lower Upper

76 100

78 6.9 7.3 10.9#





#17

Allyl chloride

Concen: 0.747 ug/l

RT: 2.660 min Scan# 21

Delta R.T. 0.000 min

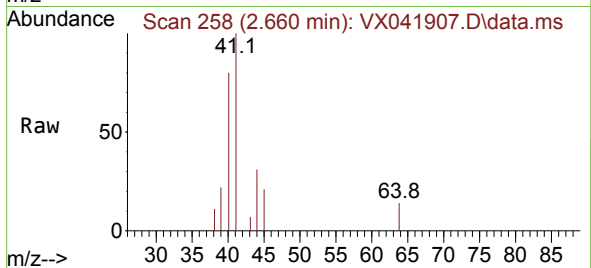
Lab File: VX041907.D

Acq: 17 Jun 2024 14:11

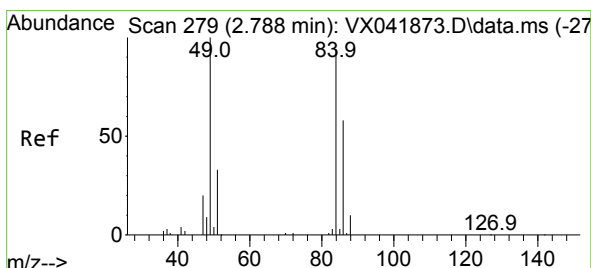
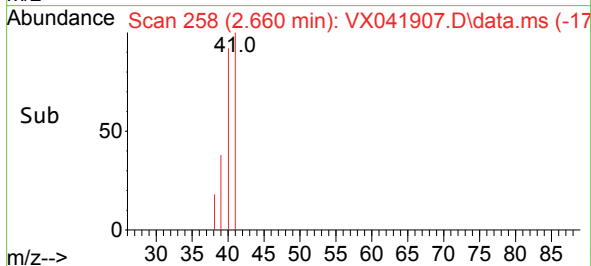
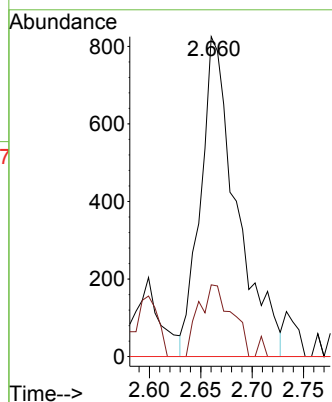
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	41	Resp:	2013
Ion	Ratio	Lower	Upper
41	100		
39	24.0	29.6	88.8#
76	0.0	18.1	54.4#



#18

Methylene Chloride

Concen: 0.639 ug/l

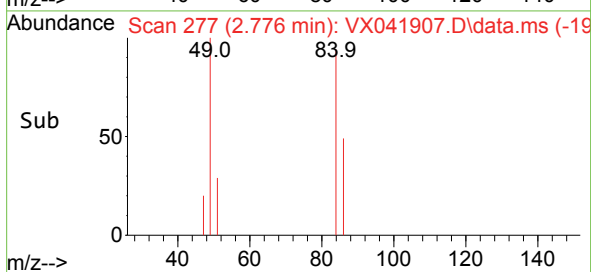
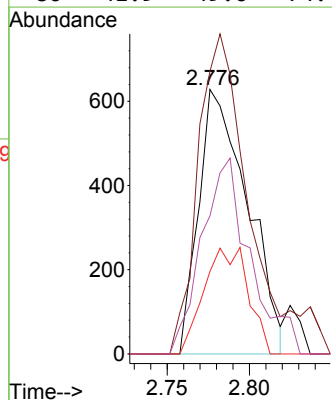
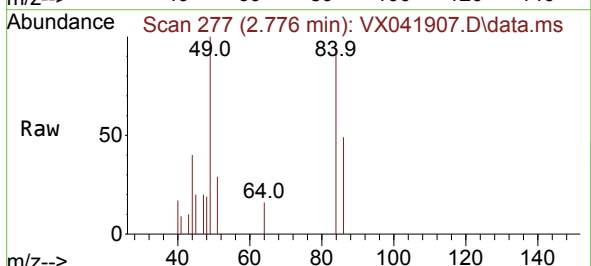
RT: 2.776 min Scan# 277

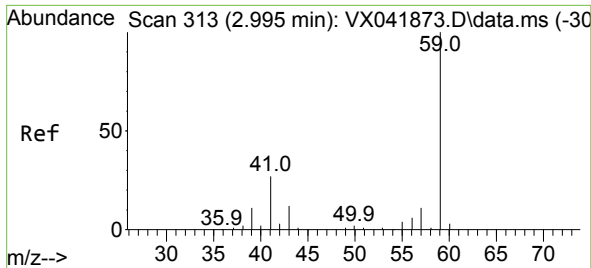
Delta R.T. -0.012 min

Lab File: VX041907.D

Acq: 17 Jun 2024 14:11

Tgt Ion:	84	Resp:	1300
Ion	Ratio	Lower	Upper
84	100		
49	92.8	85.3	127.9
51	31.2	28.5	42.7
86	41.9	49.6	74.4#

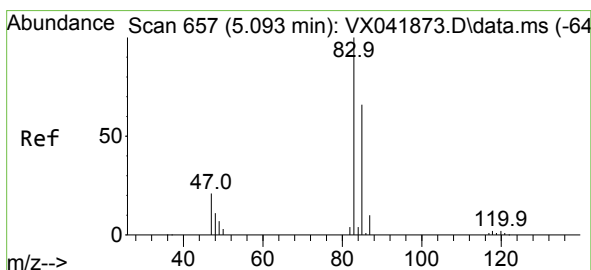
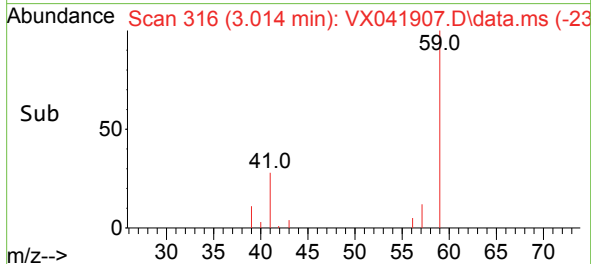
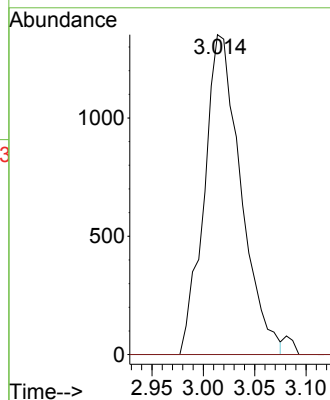
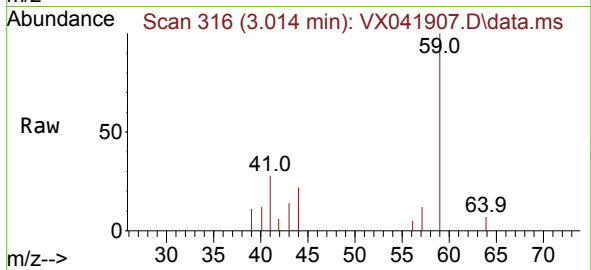




#23
tert-Butyl Alcohol
Concen: 8.409 ug/l
RT: 3.014 min Scan# 313
Delta R.T. 0.018 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

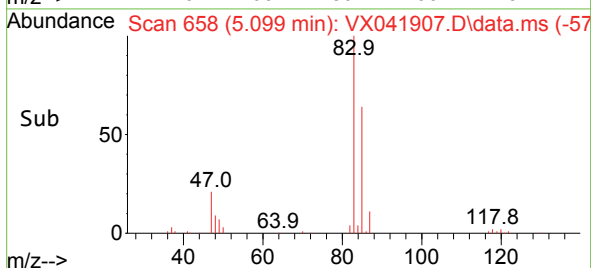
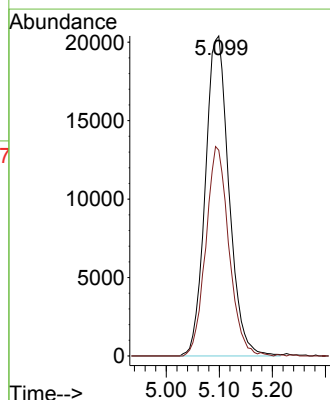
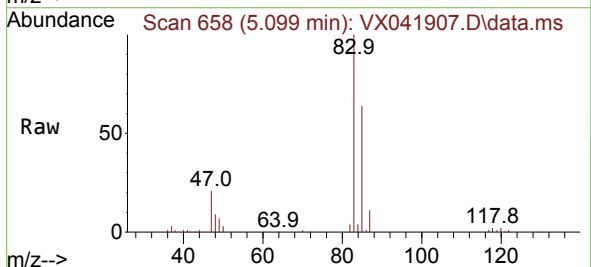
Instrument :
MSVOA_X
ClientSampleId :

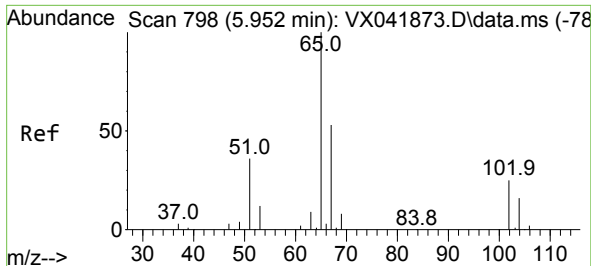
Tgt Ion: 59 Resp: 3355
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 19.653 ug/l
RT: 5.099 min Scan# 658
Delta R.T. 0.006 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

Tgt Ion: 83 Resp: 63161
Ion Ratio Lower Upper
83 100
85 64.3 52.7 79.1





#27

1,2-Dichloroethane-d4

Concen: 30.132 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX041907.D

Acq: 17 Jun 2024 14:11

Instrument :

MSVOA_X

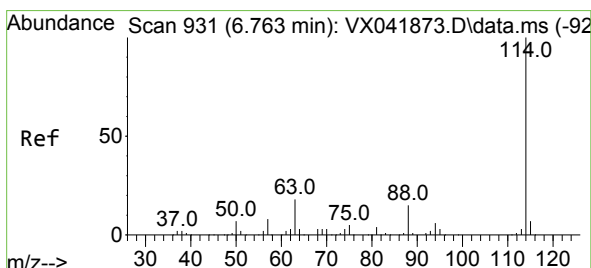
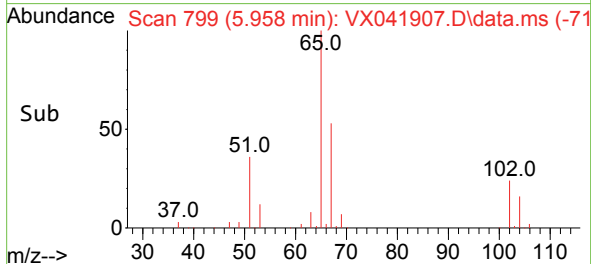
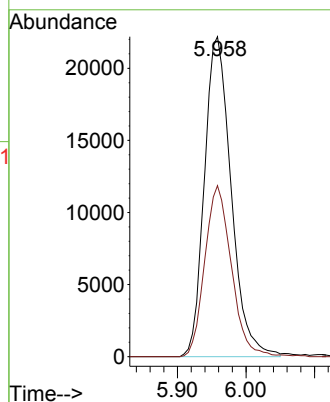
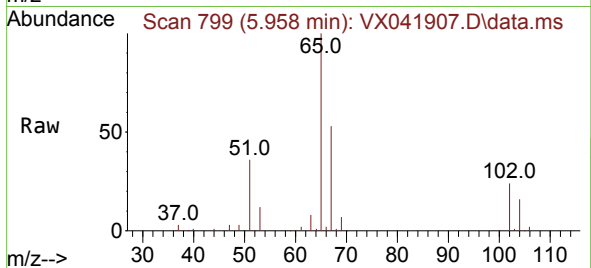
ClientSampleId :

Tgt Ion: 65 Resp: 60191

Ion Ratio Lower Upper

65 100

67 53.0 43.4 65.0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX041907.D

Acq: 17 Jun 2024 14:11

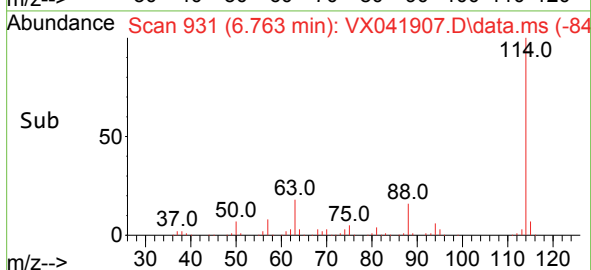
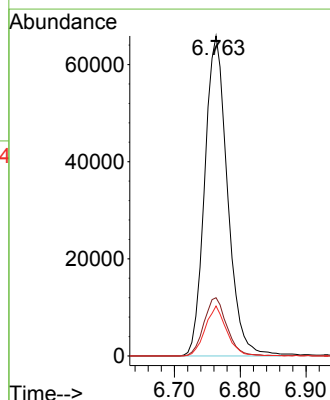
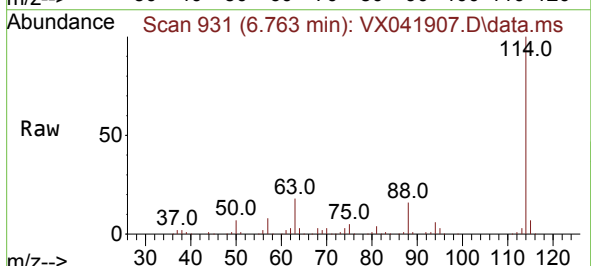
Tgt Ion: 114 Resp: 158533

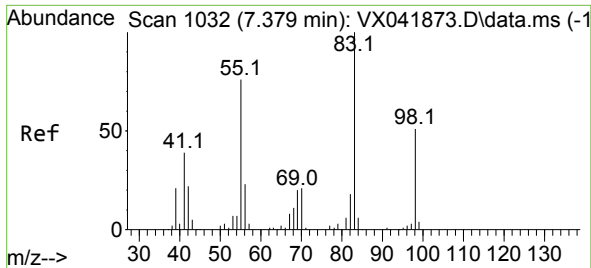
Ion Ratio Lower Upper

114 100

63 18.3 14.6 21.8

88 14.7 11.8 17.8

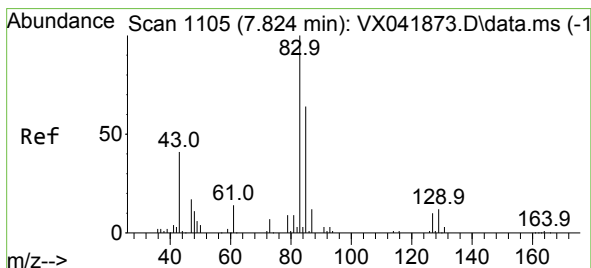
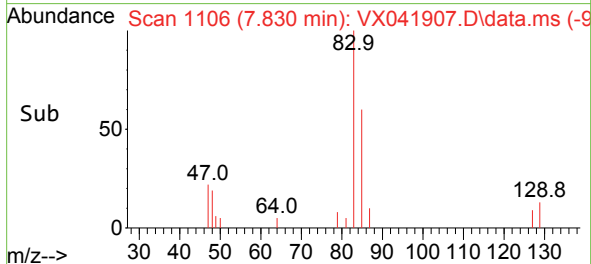
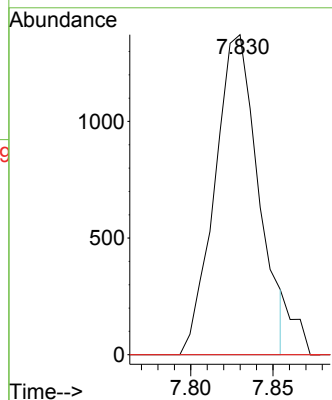
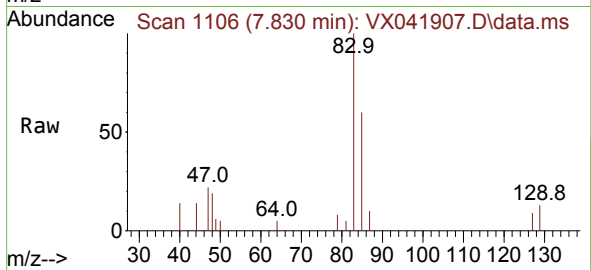




#38
Methylcyclohexane
Concen: 0.925 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.451 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

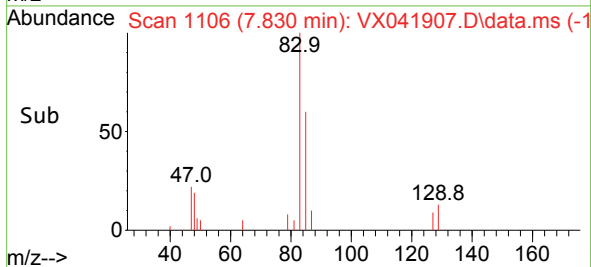
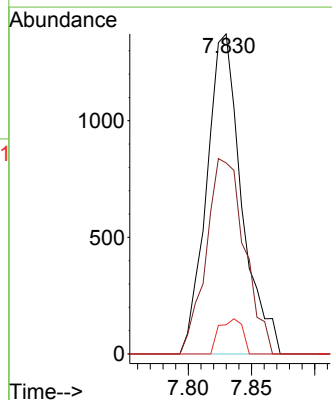
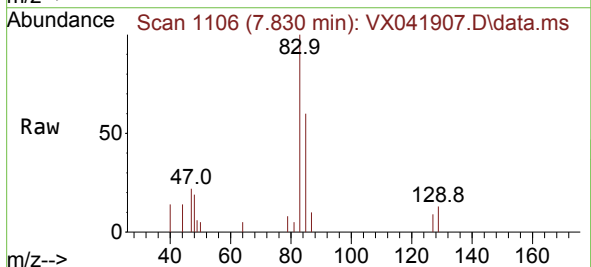
Instrument :
MSVOA_X
ClientSampleId :

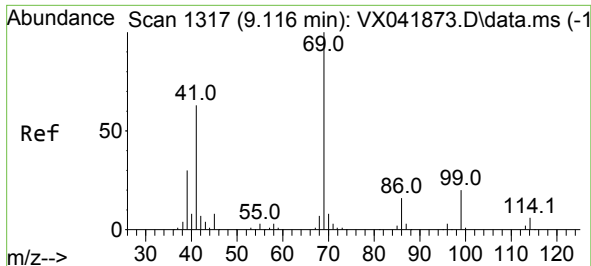
Tgt Ion: 83 Resp: 2535
Ion Ratio Lower Upper
83 100
55 0.0 37.3 111.9#
98 0.0 24.8 74.4#



#41
Bromodichloromethane
Concen: 1.216 ug/l
RT: 7.830 min Scan# 1106
Delta R.T. 0.006 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

Tgt Ion: 83 Resp: 2646
Ion Ratio Lower Upper
83 100
85 59.7 51.1 76.7
127 9.1 8.1 12.1

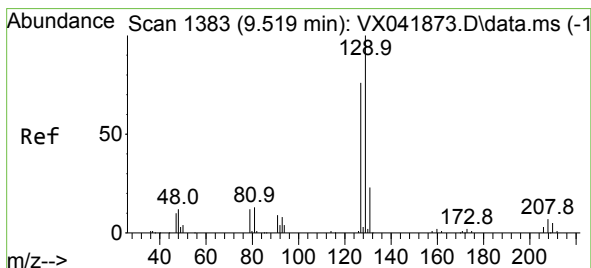
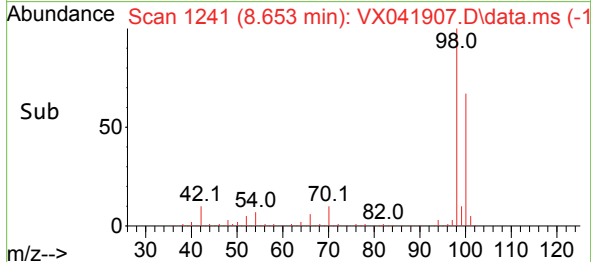
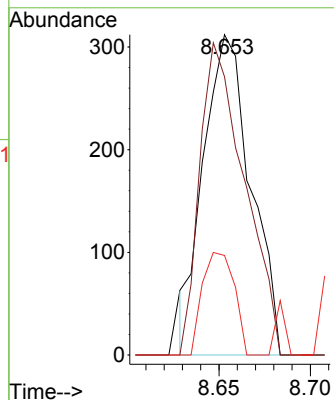
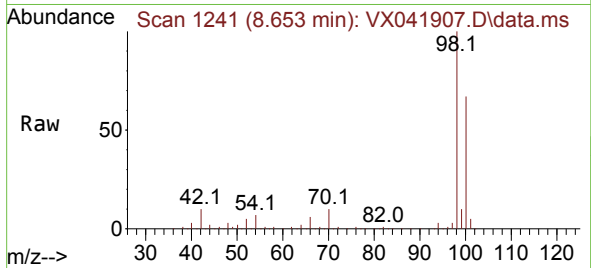




#51
Ethyl methacrylate
Concen: 0.201 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.463 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

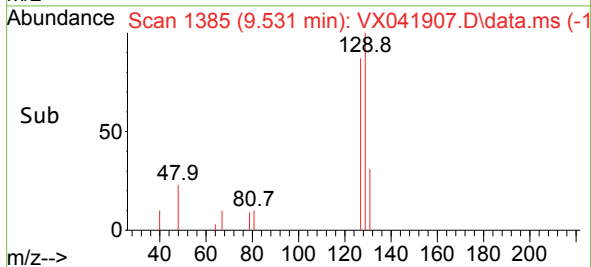
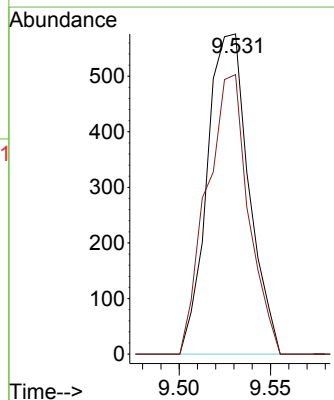
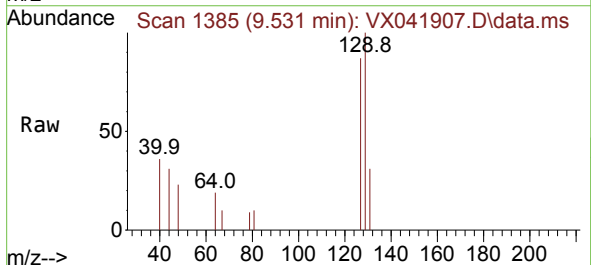
Instrument :
MSVOA_X
ClientSampleId :

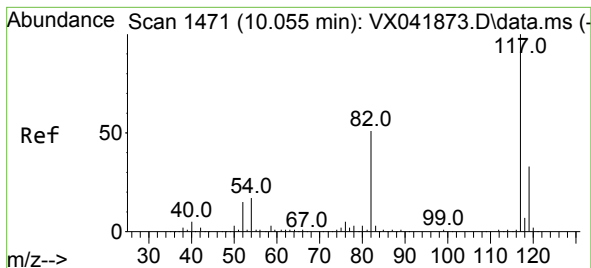
Tgt Ion: 69 Resp: 563
Ion Ratio Lower Upper
69 100
41 86.9 31.6 94.7
39 31.1 15.3 45.8



#53
Dibromochloromethane
Concen: 0.474 ug/l
RT: 9.531 min Scan# 1385
Delta R.T. 0.012 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

Tgt Ion: 129 Resp: 916
Ion Ratio Lower Upper
129 100
127 87.2 38.8 116.4

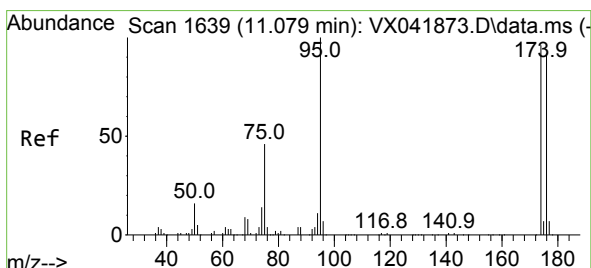
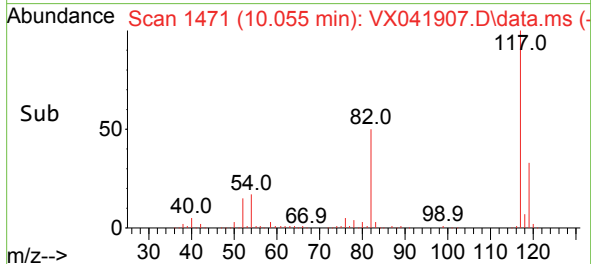
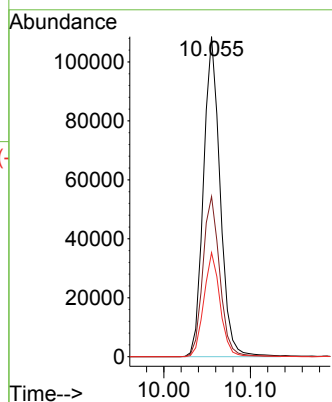
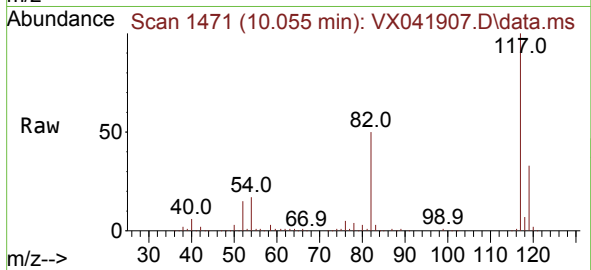




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

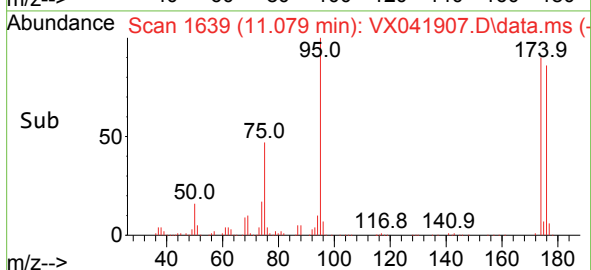
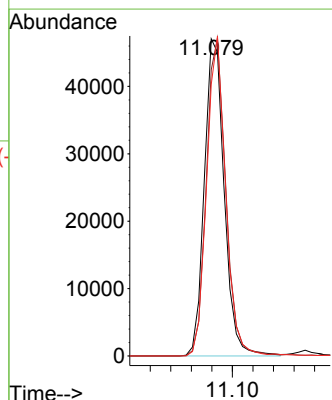
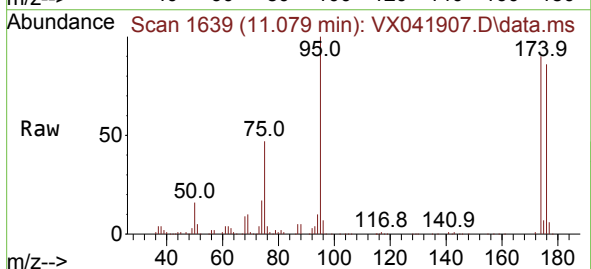
Instrument :
MSVOA_X
ClientSampleId :

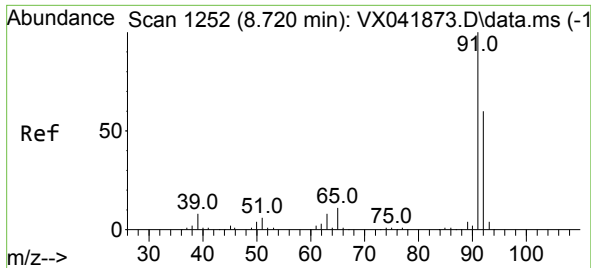
Tgt Ion:117 Resp: 144916
Ion Ratio Lower Upper
117 100
82 50.9 41.1 61.7
119 31.9 26.1 39.1



#60
4-Bromofluorobenzene
Concen: 28.251 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

Tgt Ion: 95 Resp: 63373
Ion Ratio Lower Upper
95 100
174 98.2 78.9 118.3
176 95.5 77.1 115.7

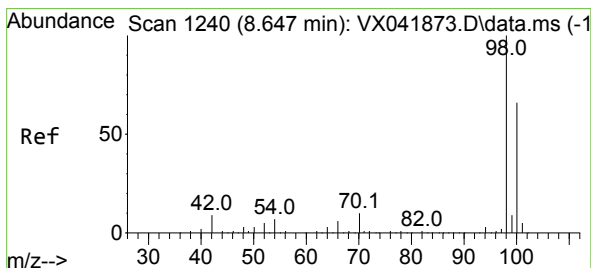
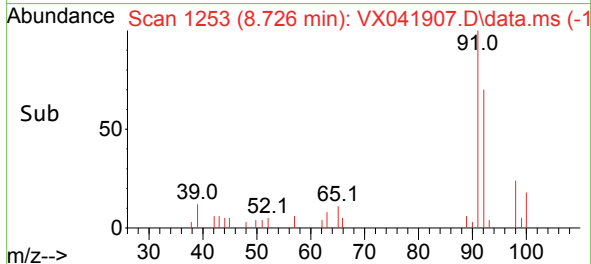
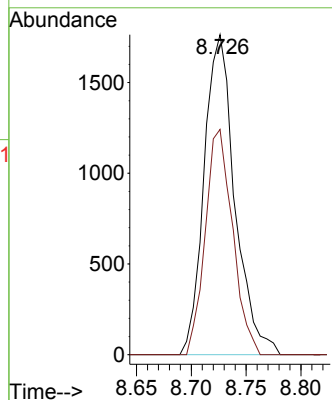
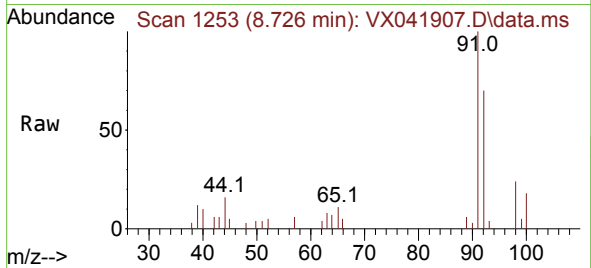




#62
Toluene
Concen: 0.469 ug/l
RT: 8.726 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

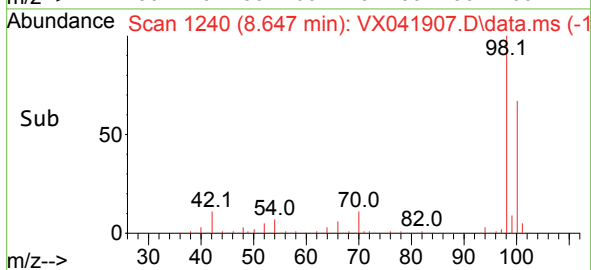
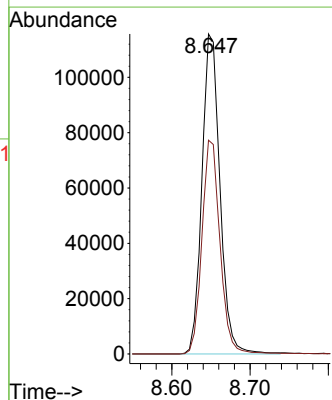
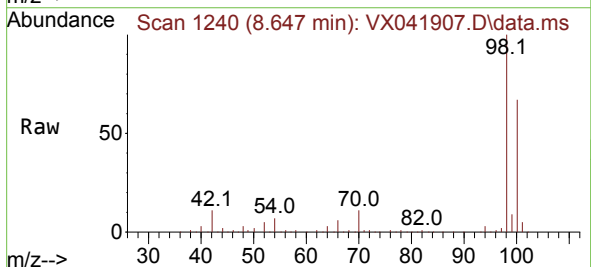
Instrument :
MSVOA_X
ClientSampleId :

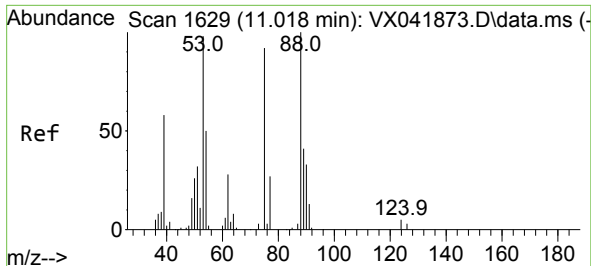
Tgt Ion: 91 Resp: 3441
Ion Ratio Lower Upper
91 100
92 62.6 47.4 71.2



#63
Toluene-d8
Concen: 29.822 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

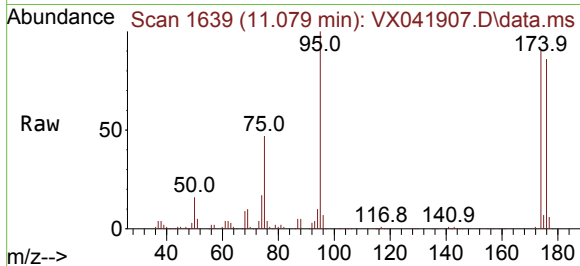
Tgt Ion: 98 Resp: 184898
Ion Ratio Lower Upper
98 100
100 67.0 52.7 79.1



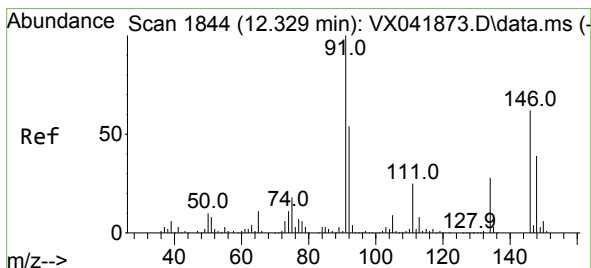
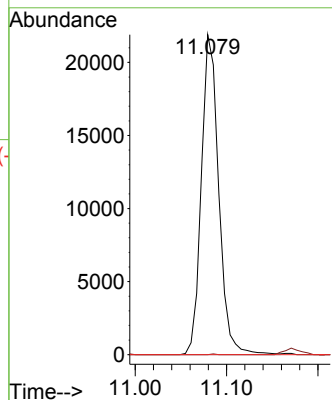
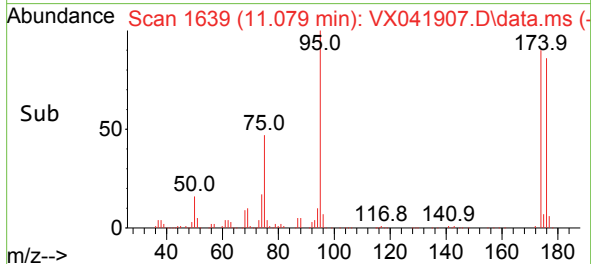


#77
t-1,4-Dichloro-2-butene
Concen: 34.443 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

Instrument :
MSVOA_X
ClientSampleId :

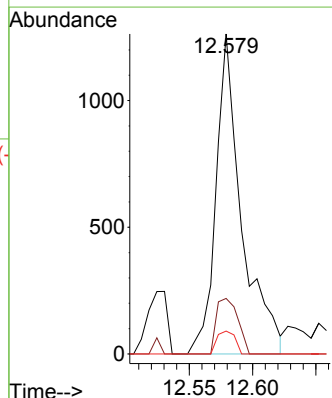
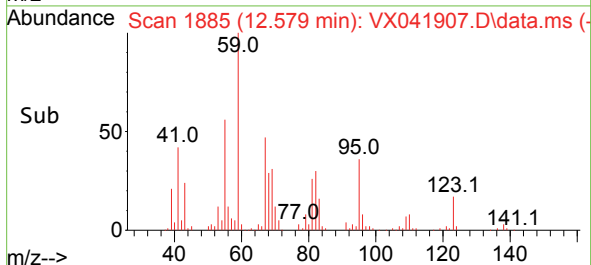
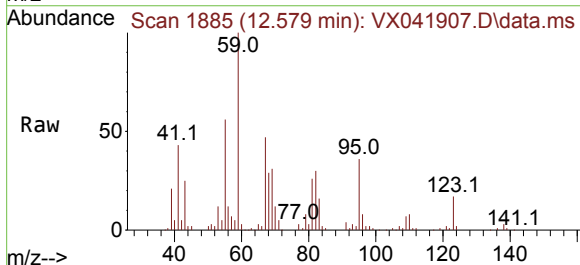


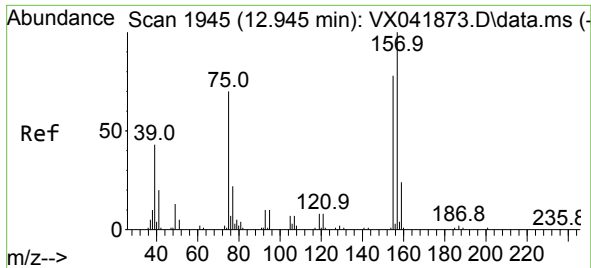
Tgt Ion: 75 Resp: 28873
Ion Ratio Lower Upper
75 100
53 0.0 53.4 160.2#
89 0.0 22.5 67.5#



#85
n-Butylbenzene
Concen: 0.313 ug/l
RT: 12.579 min Scan# 1885
Delta R.T. 0.250 min
Lab File: VX041907.D
Acq: 17 Jun 2024 14:11

Tgt Ion: 91 Resp: 1776
Ion Ratio Lower Upper
91 100
92 14.5 0.0 109.8
134 5.0 0.0 58.4





#88

1,2-Dibromo-3-Chloropropane

Concen: 0.211 ug/l

RT: 12.817 min Scan# 19

Delta R.T. -0.128 min

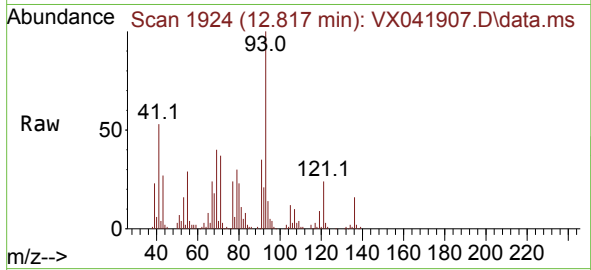
Lab File: VX041907.D

Acq: 17 Jun 2024 14:11

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion: 75 Resp: 122

Ion Ratio Lower Upper

75 100

155 0.0 88.6 133.0#

157 91.0 112.8 169.2#

