

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080824\
 Data File : VX042946.D
 Acq On : 08 Aug 2024 11:55
 Operator : JC/MD
 Sample : P3505-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 08 14:51:56 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 07 04:53:59 2024
 Response via : Initial Calibration

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

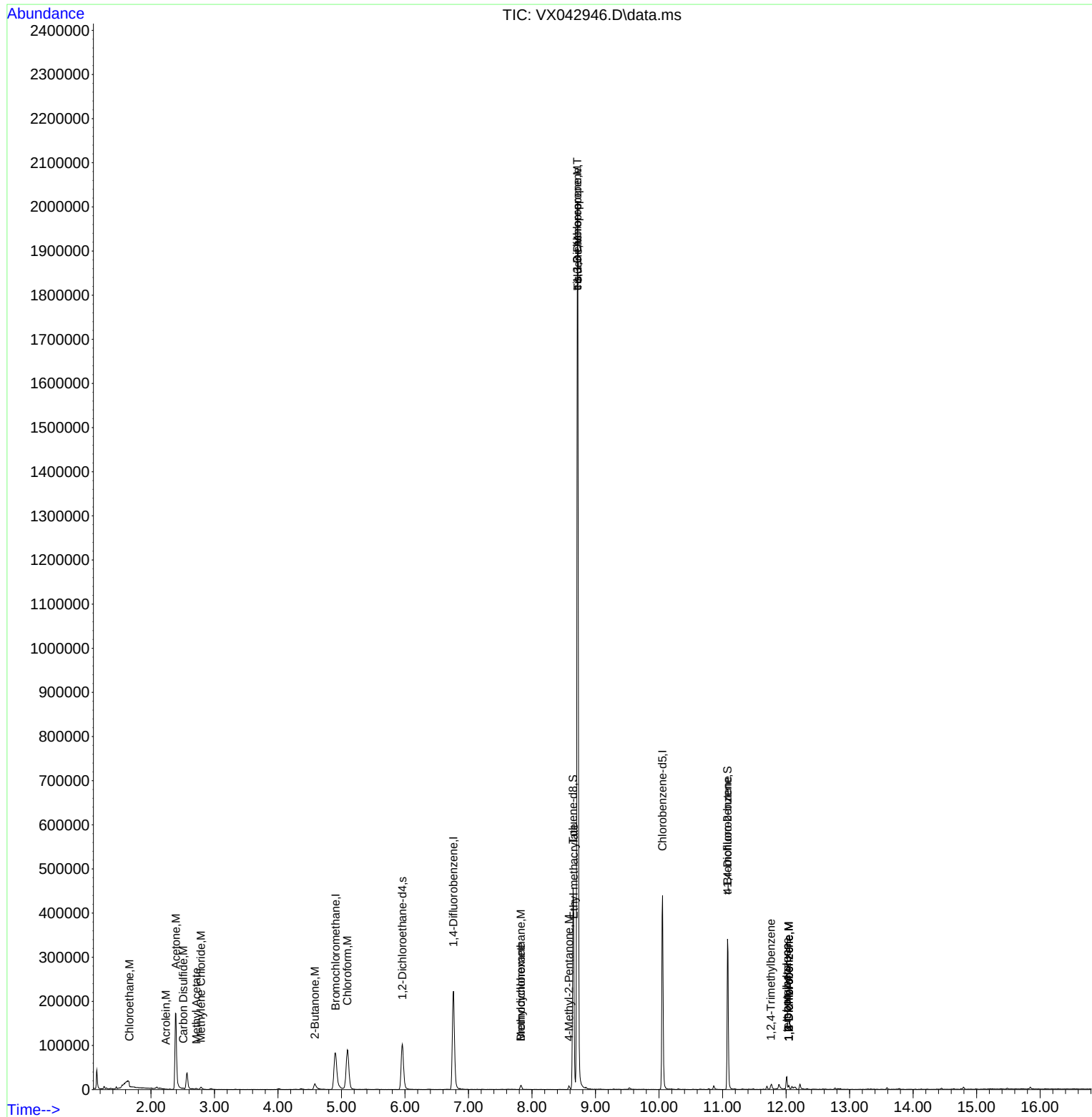
Internal Standards						
1) Bromochloromethane	4.910	128	40498	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.763	114	230210	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	206583	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	104984	28.073	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.567%		
60) 4-Bromofluorobenzene	11.079	95	93779	27.825	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.767%		
63) Toluene-d8	8.647	98	280805	30.092	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.300%		
Target Compounds						Qvalue
6) Chloroethane	1.660	64	402	0.290	ug/l	100
12) Methyl Acetate	2.715	43	1813	0.342	ug/l #	89
13) Acrolein	2.233	56	154	1.005	ug/l #	52
15) Acetone	2.392	58	63436	121.500	ug/l	94
16) Carbon Disulfide	2.508	76	2015	0.400	ug/l #	94
18) Methylene Chloride	2.788	84	2756	0.981	ug/l #	79
25) Chloroform	5.093	83	111292	21.114	ug/l	96
30) 2-Butanone	4.580	43	22118	10.124	ug/l	96
38) Methylcyclohexane	7.824	83	6065	1.650	ug/l #	18
41) Bromodichloromethane	7.824	83	6229	1.718	ug/l	96
48) t-1,3-Dichloropropene	8.714	75	9611	2.766	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	9611	2.554	ug/l #	1
51) Ethyl methacrylate	8.659	69	888	0.218	ug/l	86
58) 4-Methyl-2-Pentanone	8.580	43	5230	1.344	ug/l	96
62) Toluene	8.720	91	1367515	135.154	ug/l	100
77) t-1,4-Dichloro-2-butene	11.079	75	47925	41.475	ug/l #	11
79) tert-butylbenzene	12.012	119	12617	1.315	ug/l	66
80) 1,2,4-Trimethylbenzene	11.762	105	2891	0.313	ug/l	50
82) p-Isopropyltoluene	12.012	119	12617	1.281	ug/l	94
83) 1,3-Dichlorobenzene	12.043	146	1481	0.287	ug/l	93
84) 1,4-Dichlorobenzene	12.043	146	1481	0.286	ug/l	92
87) 1,2-Dichlorobenzene	12.043	146	1481	0.288	ug/l	93

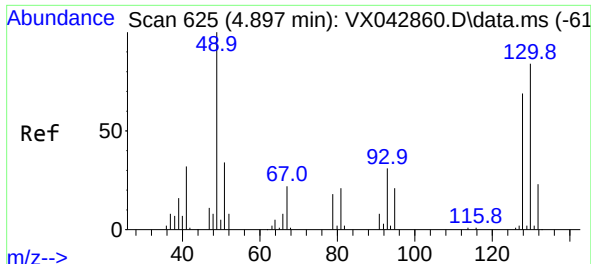
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_X
ClientSampleId :

Quant Time: Aug 08 14:51:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 07 04:53:59 2024
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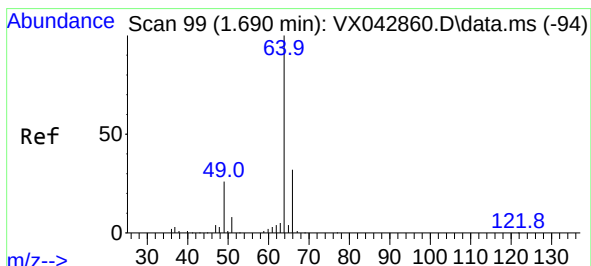
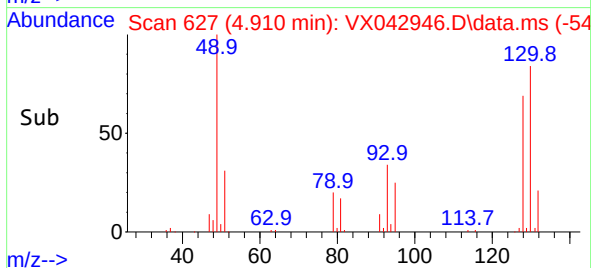
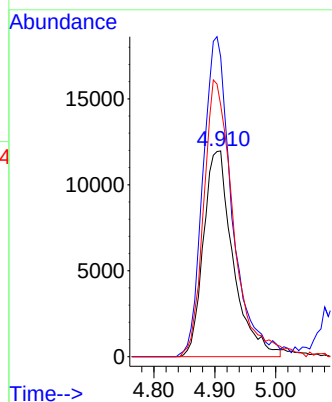
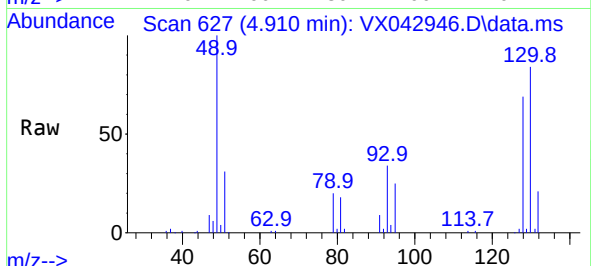




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.910 min Scan# 61
Delta R.T. 0.013 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

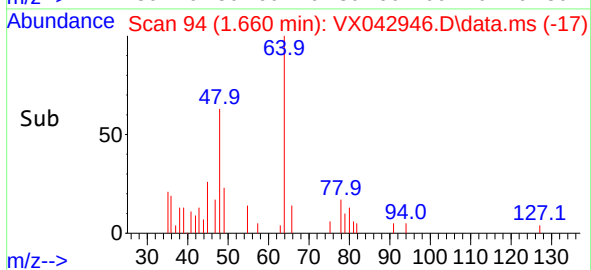
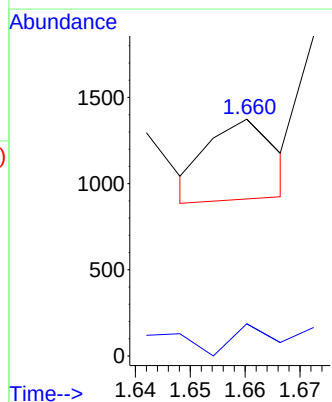
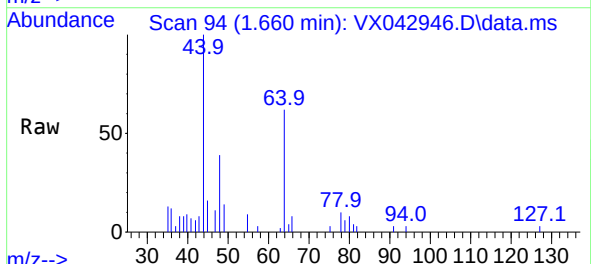
Instrument :
MSVOA_X
ClientSampleId :

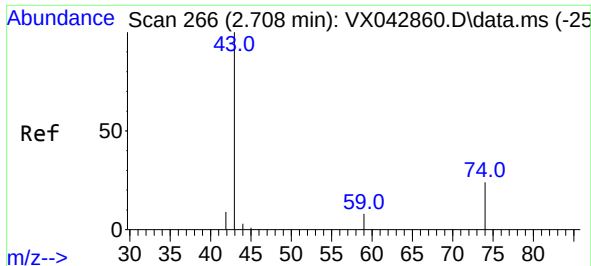
Tgt Ion:128 Resp: 40498
Ion Ratio Lower Upper
128 100
49 149.6 0.0 400.5
130 130.6 0.0 333.0



#6
Chloroethane
Concen: 0.290 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.030 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

Tgt Ion: 64 Resp: 402
Ion Ratio Lower Upper
64 100
66 32.6 25.9 38.9

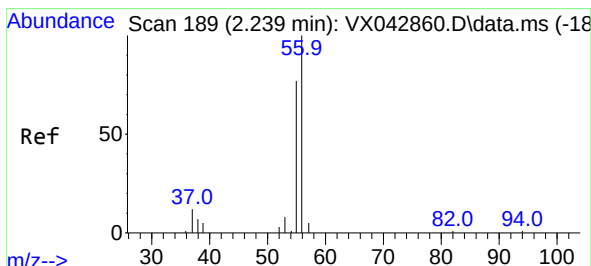
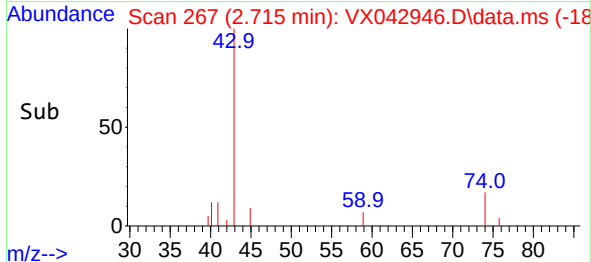
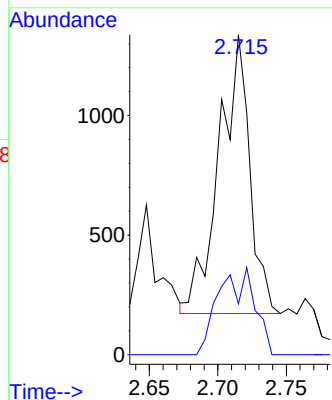
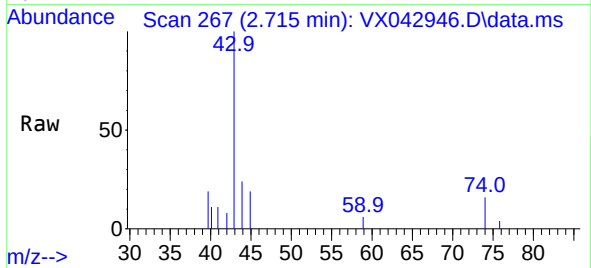




#12
Methyl Acetate
Concen: 0.342 ug/l
RT: 2.715 min Scan# 20
Delta R.T. 0.007 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

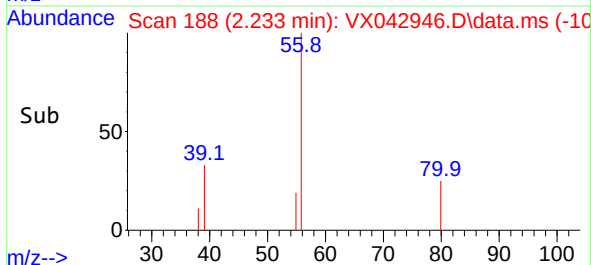
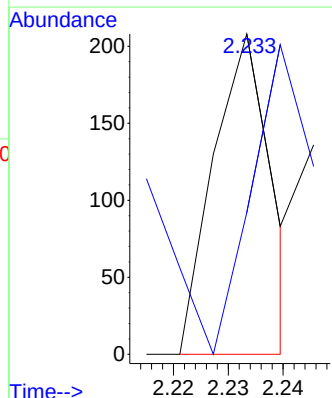
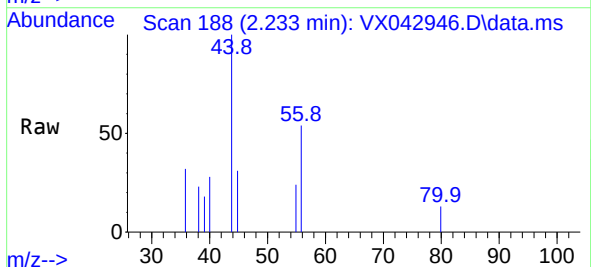
Instrument :
MSVOA_X
ClientSampleId :

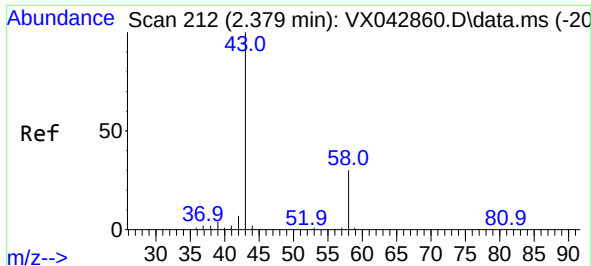
Tgt Ion: 43 Resp: 1813
Ion Ratio Lower Upper
43 100
74 18.6 19.4 29.2#



#13
Acrolein
Concen: 1.005 ug/l
RT: 2.233 min Scan# 188
Delta R.T. -0.006 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

Tgt Ion: 56 Resp: 154
Ion Ratio Lower Upper
56 100
55 116.9 60.6 90.8#

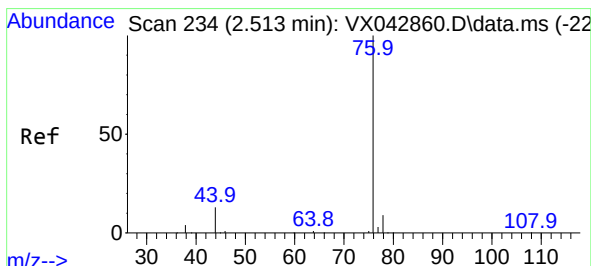
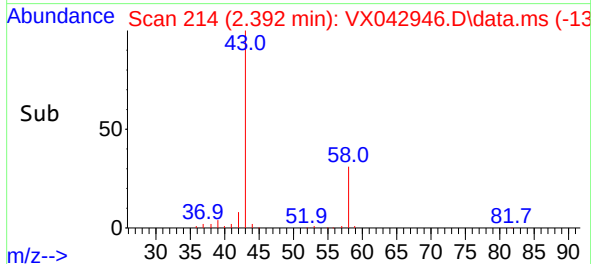
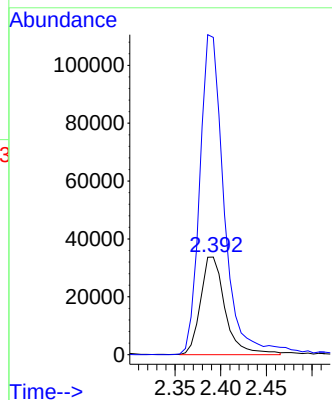
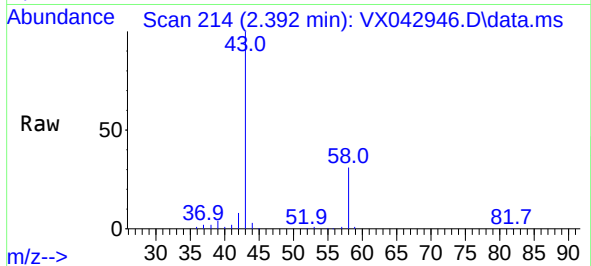




#15
Acetone
Concen: 121.500 ug/l
RT: 2.392 min Scan# 21
Delta R.T. 0.013 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

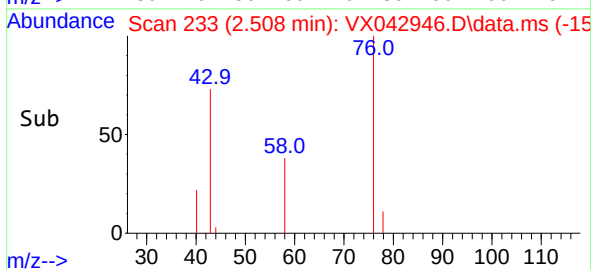
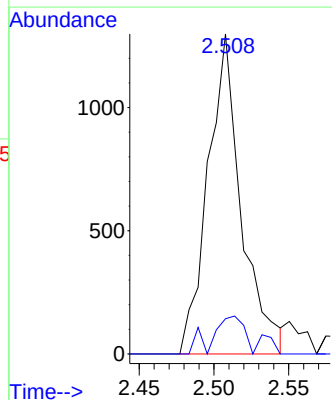
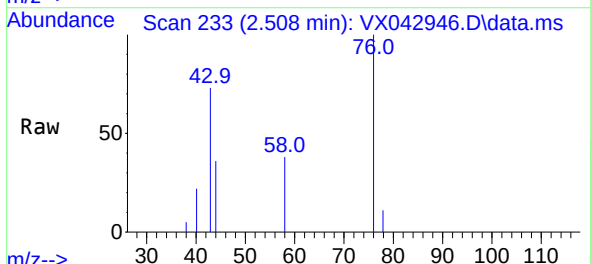
Instrument :
MSVOA_X
ClientSampleId :

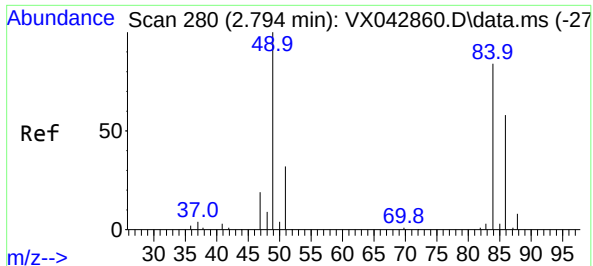
Tgt Ion: 58 Resp: 63436
Ion Ratio Lower Upper
58 100
43 324.7 269.9 404.9



#16
Carbon Disulfide
Concen: 0.400 ug/l
RT: 2.508 min Scan# 233
Delta R.T. -0.006 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

Tgt Ion: 76 Resp: 2015
Ion Ratio Lower Upper
76 100
78 11.0 7.1 10.7#



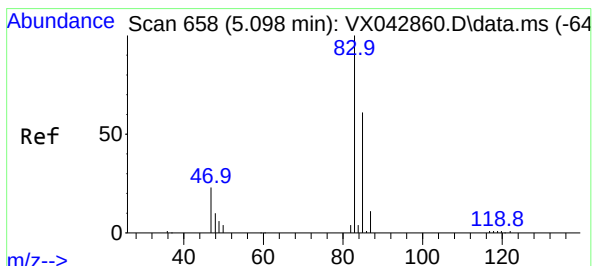
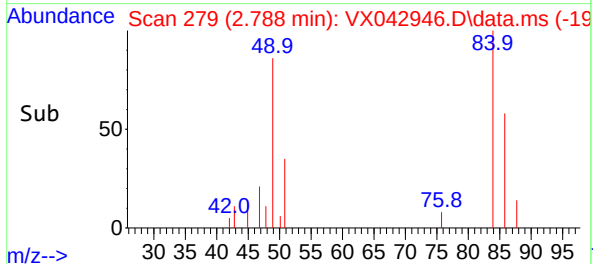
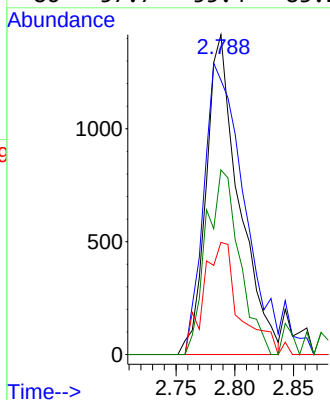
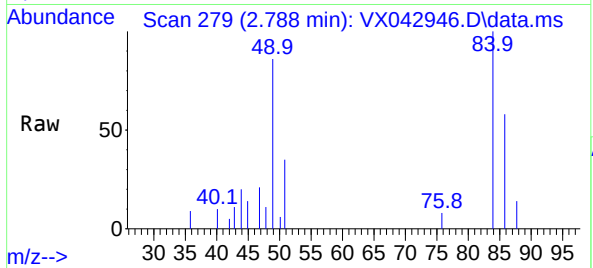


#18
Methylene Chloride
Concen: 0.981 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

Instrument :
MSVOA_X
ClientSampleId :

Tgt Ion: 84 Resp: 2756

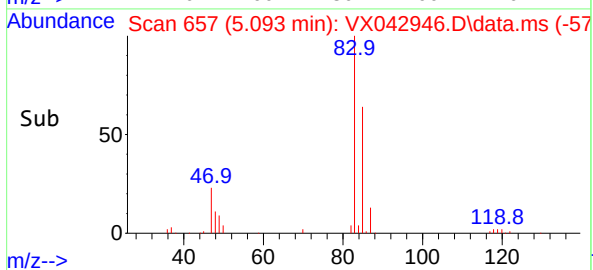
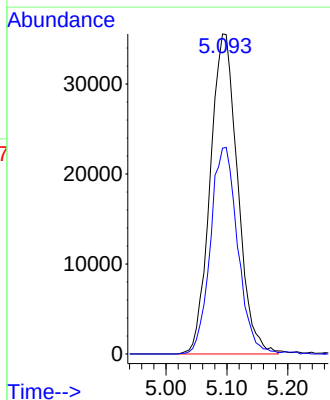
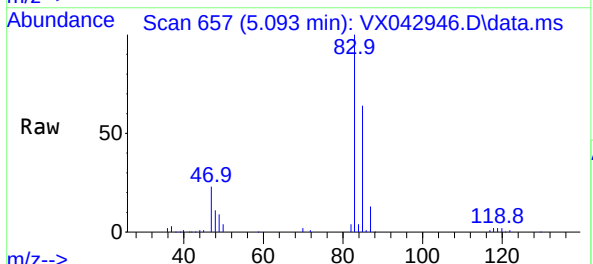
Ion	Ratio	Lower	Upper
84	100		
49	85.8	95.0	142.6#
51	35.1	30.1	45.1
86	57.7	55.4	83.2

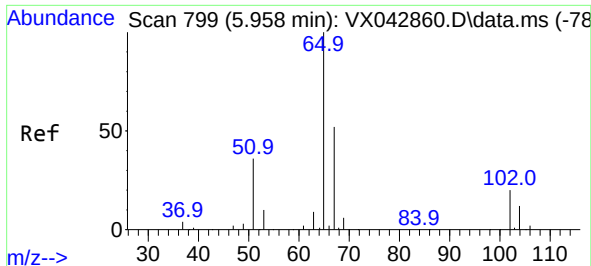


#25
Chloroform
Concen: 21.114 ug/l
RT: 5.093 min Scan# 657
Delta R.T. -0.006 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

Tgt Ion: 83 Resp: 111292

Ion	Ratio	Lower	Upper
83	100		
85	64.3	49.2	73.8

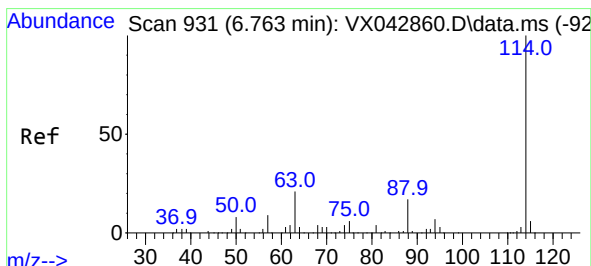
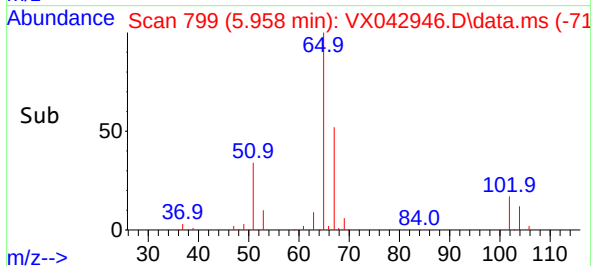
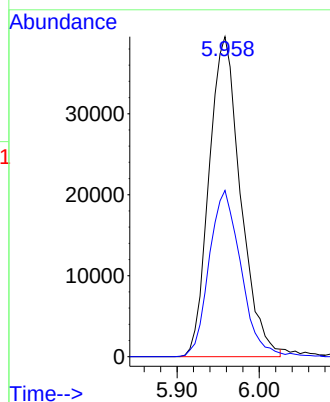
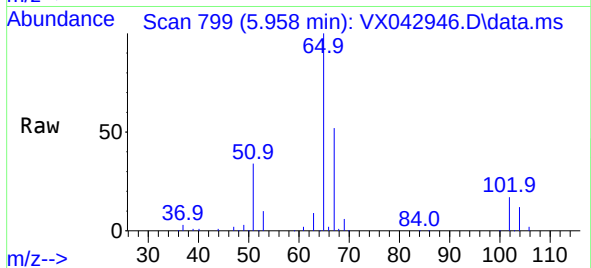




#27
1,2-Dichloroethane-d4
Concen: 28.073 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

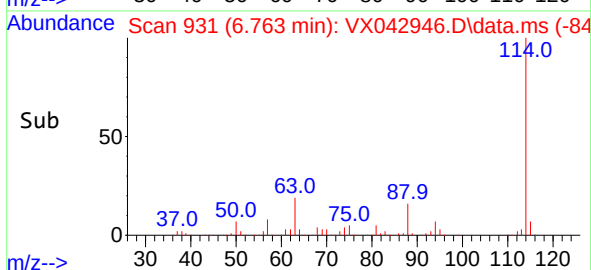
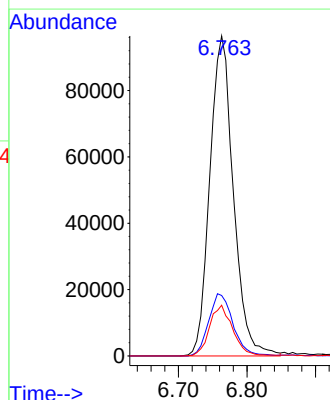
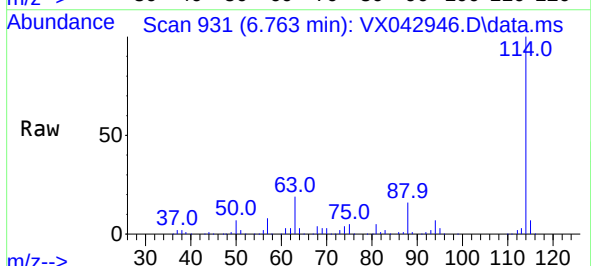
Instrument :
MSVOA_X
ClientSampleId :

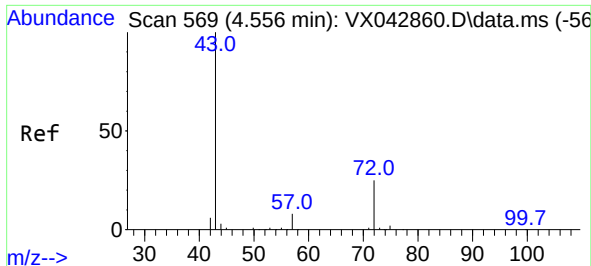
Tgt Ion: 65 Resp: 104984
Ion Ratio Lower Upper
65 100
67 52.3 40.6 60.8



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. 0.000 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

Tgt Ion: 114 Resp: 230210
Ion Ratio Lower Upper
114 100
63 20.1 16.0 24.0
88 15.6 12.5 18.7

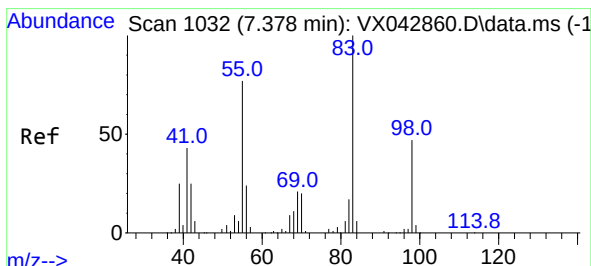
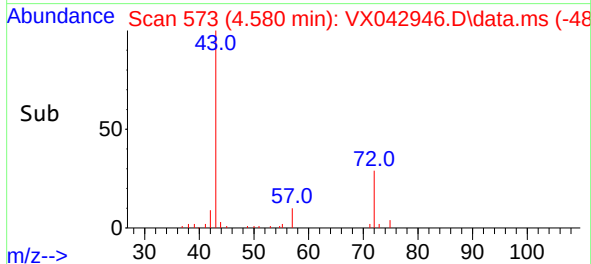
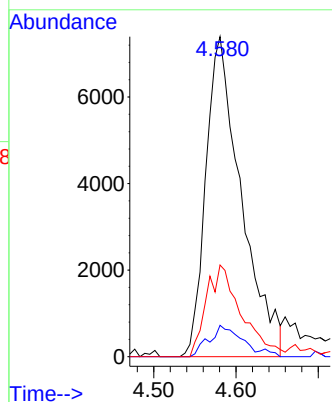
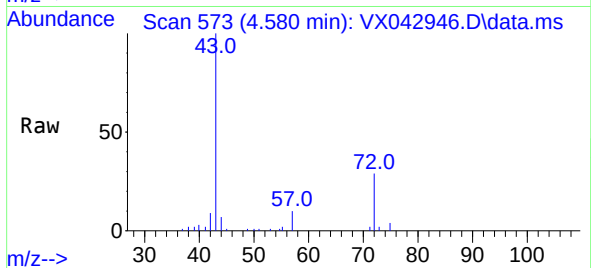




#30
2-Butanone
Concen: 10.124 ug/l
RT: 4.580 min Scan# 51
Delta R.T. 0.025 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

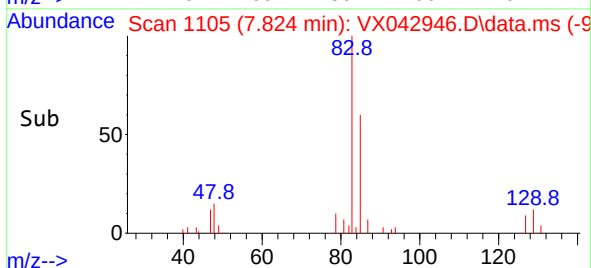
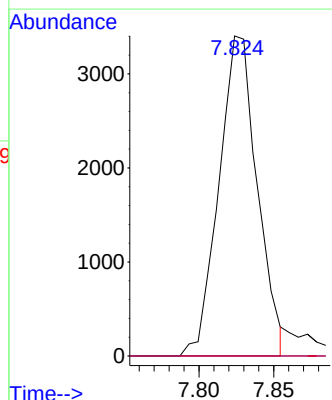
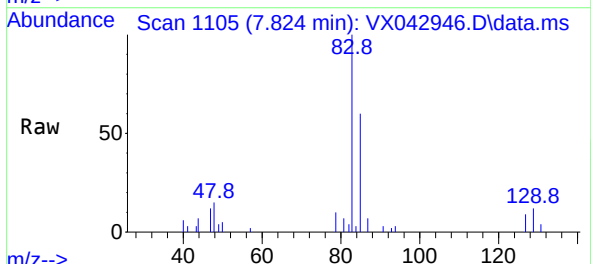
Instrument :
MSVOA_X
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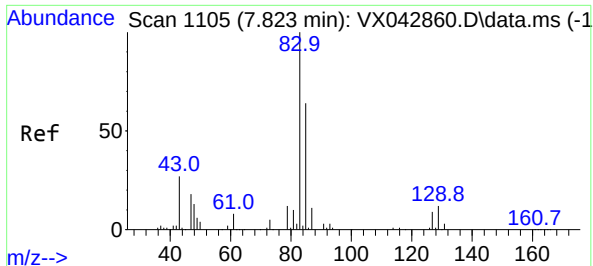
Tgt Ion: 43	Resp: 22118
Ion Ratio	Lower Upper
43 100	
57 6.8	6.6 10.0
72 28.4	21.0 31.4



#38
Methylcyclohexane
Concen: 1.650 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.446 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

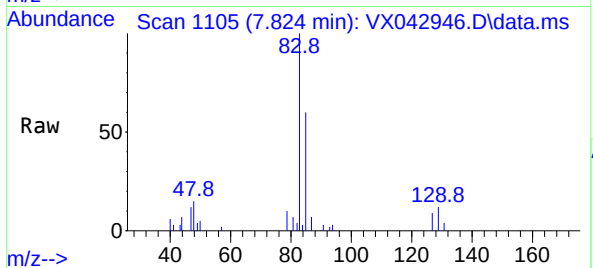
Tgt Ion: 83	Resp: 6065
Ion Ratio	Lower Upper
83 100	
55 0.0	38.0 113.9#
98 0.0	23.4 70.2#



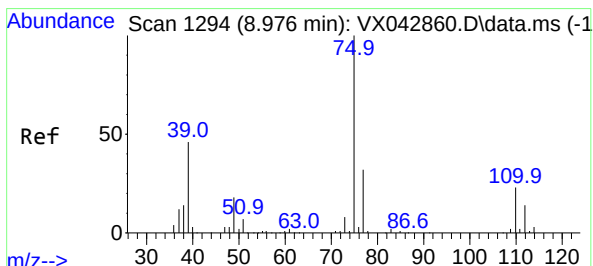
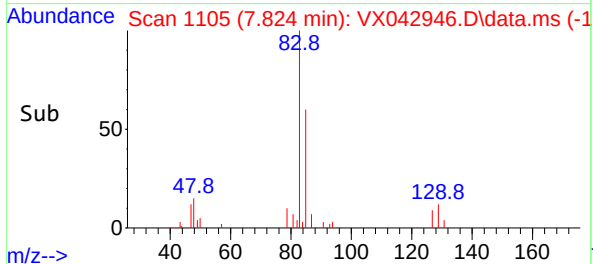
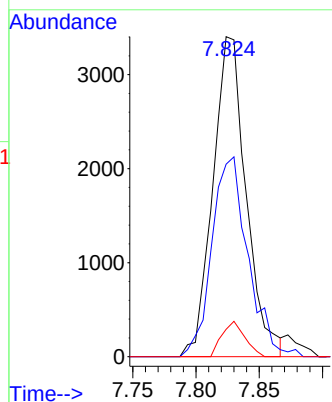


#41
Bromodichloromethane
Concen: 1.718 ug/l
RT: 7.824 min Scan# 1105
Delta R.T. 0.000 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

Instrument :
MSVOA_X
ClientSampleId :

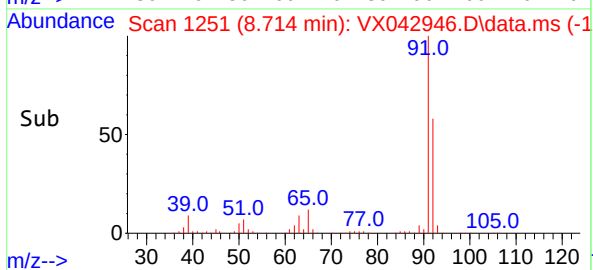
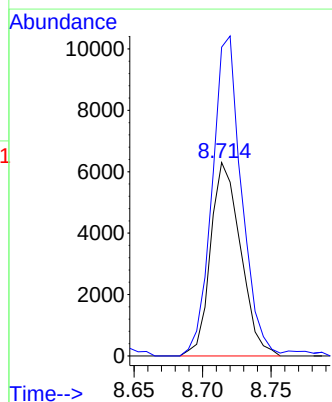
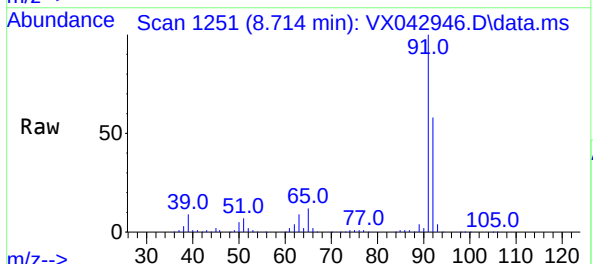


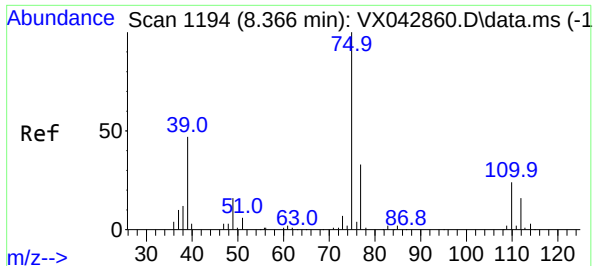
Tgt Ion: 83 Resp: 6229
Ion Ratio Lower Upper
83 100
85 60.2 50.8 76.2
127 8.5 6.9 10.3



#48
t-1,3-Dichloropropene
Concen: 2.766 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.262 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

Tgt Ion: 75 Resp: 9611
Ion Ratio Lower Upper
75 100
77 159.7 25.6 38.4#





#49

cis-1,3-Dichloropropene

Concen: 2.554 ug/l

RT: 8.714 min Scan# 11

Delta R.T. 0.348 min

Lab File: VX042946.D

Acq: 08 Aug 2024 11:55

Instrument :

MSVOA_X

ClientSampleId :

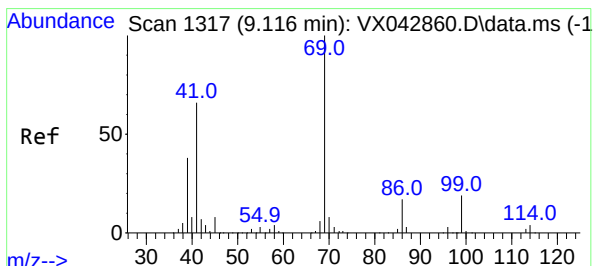
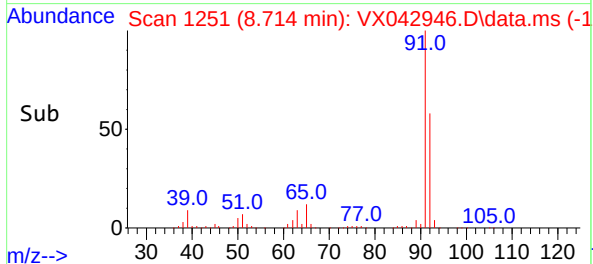
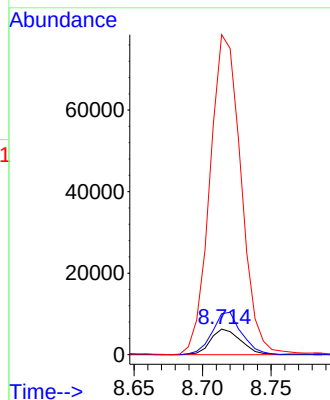
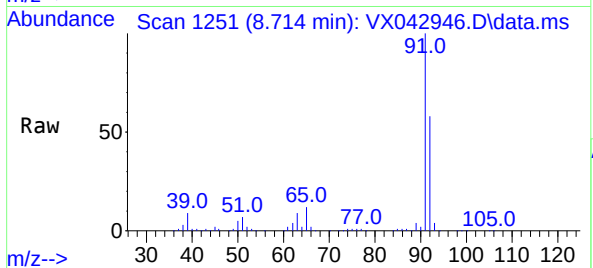
Tgt Ion: 75 Resp: 9611

Ion Ratio Lower Upper

75 100

77 159.7 26.8 40.2#

39 1243.9 37.5 56.3#



#51

Ethyl methacrylate

Concen: 0.218 ug/l

RT: 8.659 min Scan# 1242

Delta R.T. -0.457 min

Lab File: VX042946.D

Acq: 08 Aug 2024 11:55

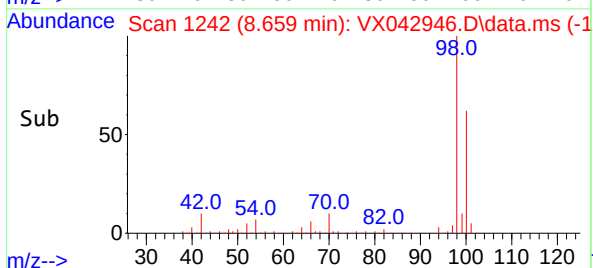
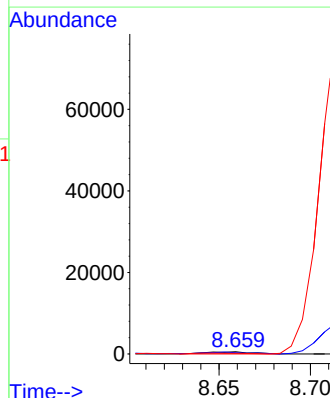
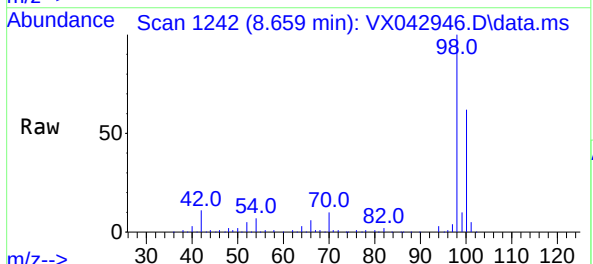
Tgt Ion: 69 Resp: 888

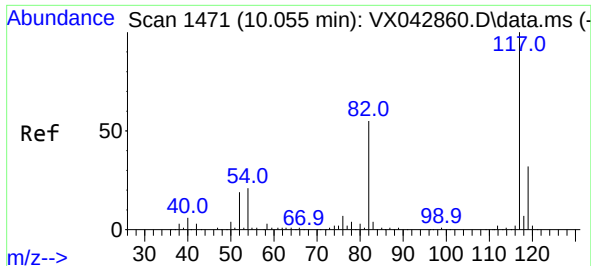
Ion Ratio Lower Upper

69 100

41 55.2 33.1 99.2

39 28.4 18.8 56.3





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

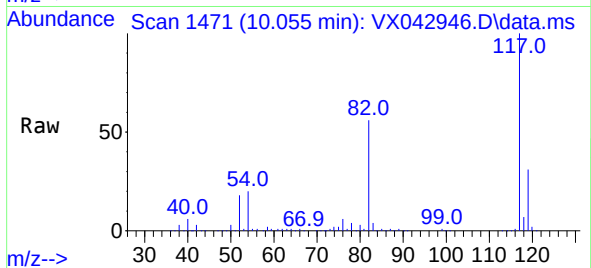
Lab File: VX042946.D

Acq: 08 Aug 2024 11:55

Instrument :

MSVOA_X

ClientSampleId :



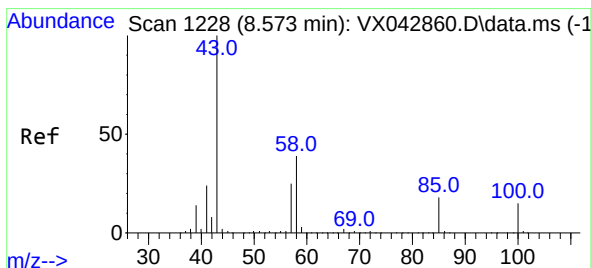
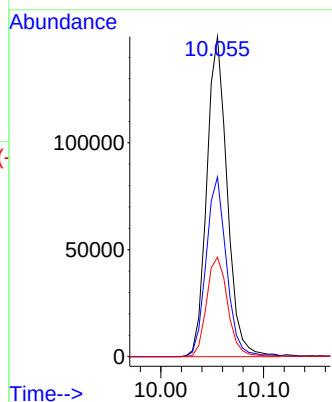
Tgt Ion:117 Resp: 206583

Ion	Ratio	Lower	Upper
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117	100		
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82	56.3	44.9	67.3
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119	32.0	25.4	38.2
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#58

4-Methyl-2-Pentanone

Concen: 1.344 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.007 min

Lab File: VX042946.D

Acq: 08 Aug 2024 11:55

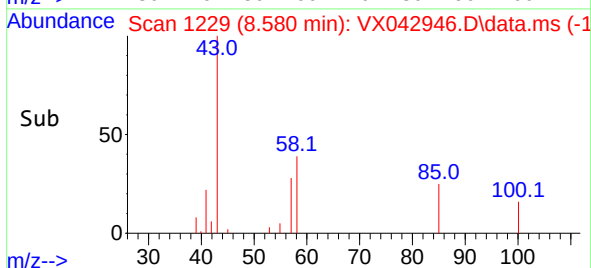
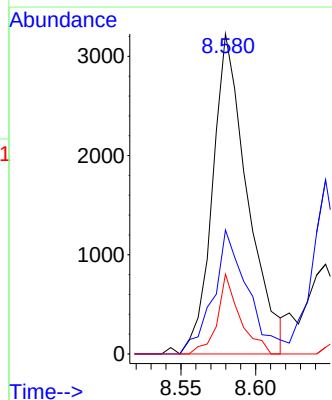
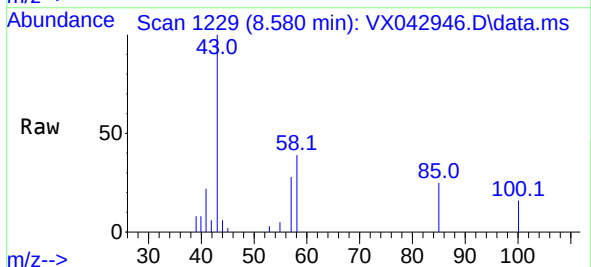
Tgt Ion: 43 Resp: 5230

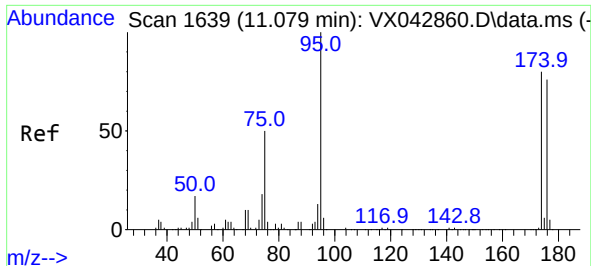
Ion	Ratio	Lower	Upper
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43	100		
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58	37.1	31.4	47.0
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85	16.2	14.6	21.8
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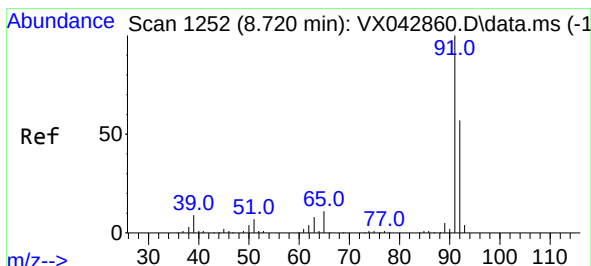
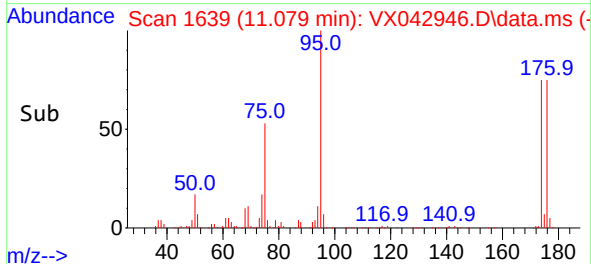
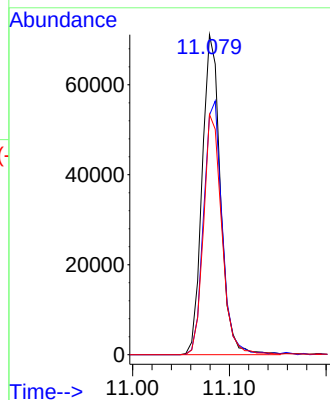
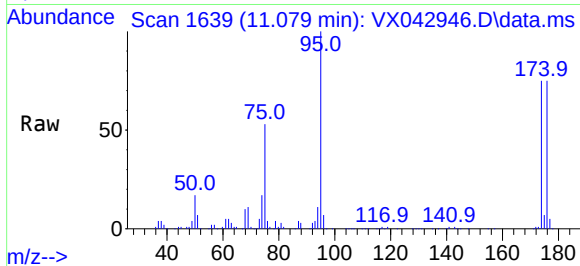




#60
4-Bromofluorobenzene
Concen: 27.825 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

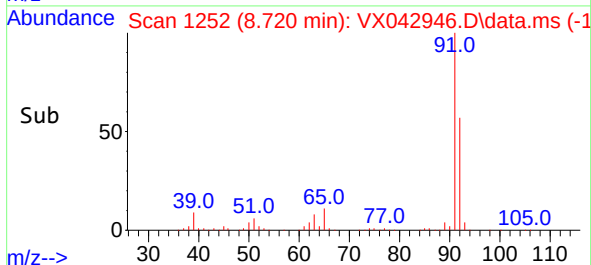
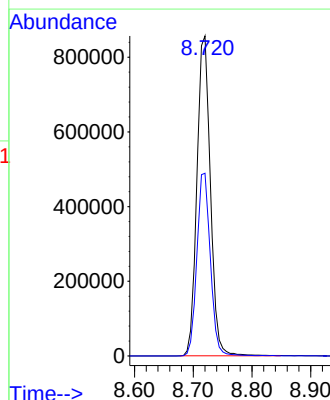
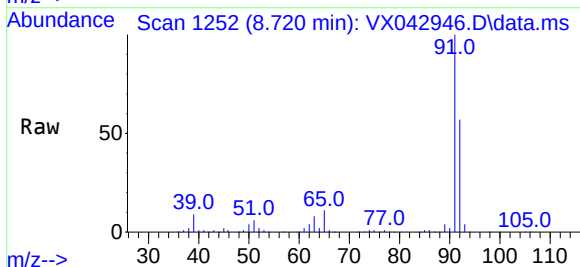
Instrument :
MSVOA_X
ClientSampleId :

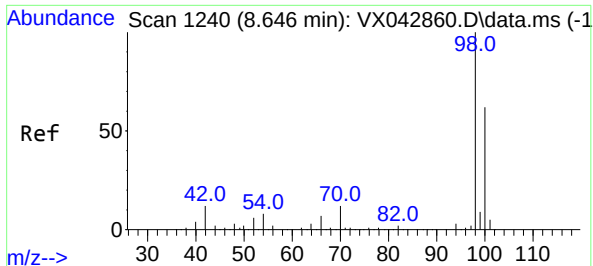
Tgt Ion: 95 Resp: 93779
Ion Ratio Lower Upper
95 100
174 79.5 65.0 97.6
176 74.1 63.4 95.0



#62
Toluene
Concen: 135.154 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

Tgt Ion: 91 Resp: 1367515
Ion Ratio Lower Upper
91 100
92 57.0 45.7 68.5

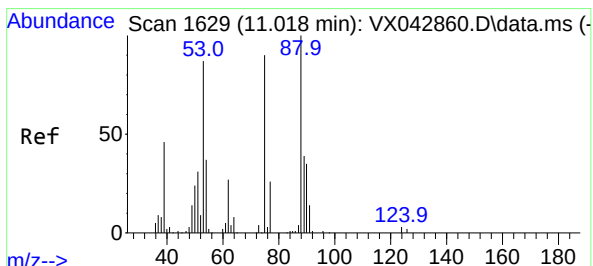
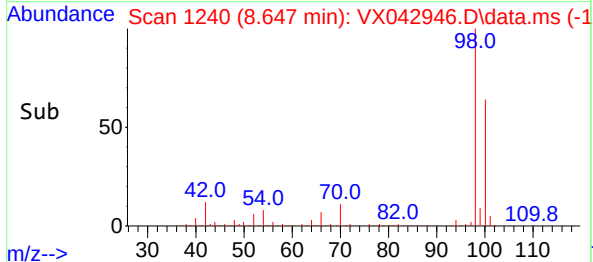
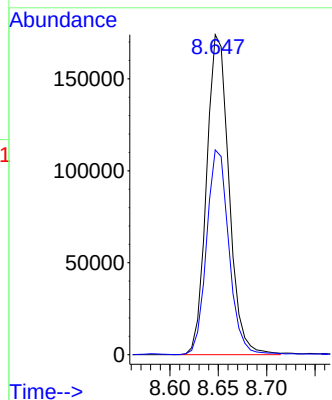
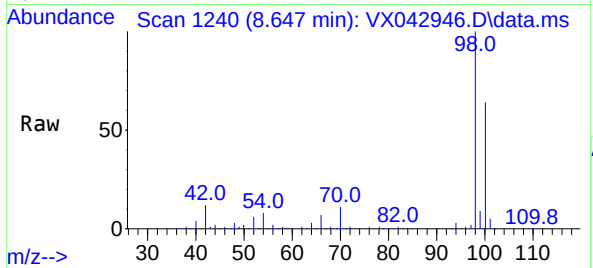




#63
Toluene-d8
Concen: 30.092 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

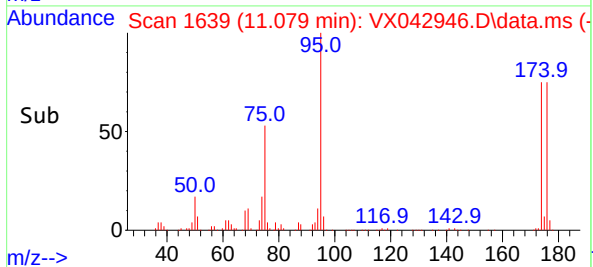
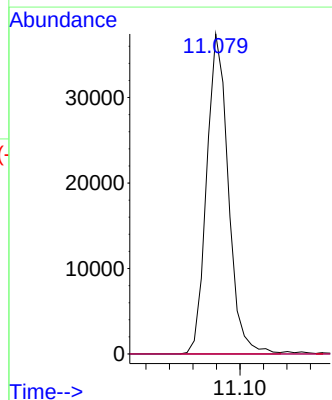
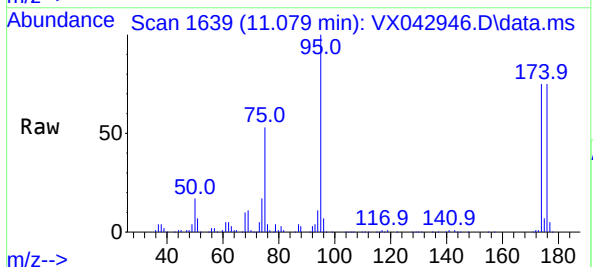
Instrument :
MSVOA_X
ClientSampleId :

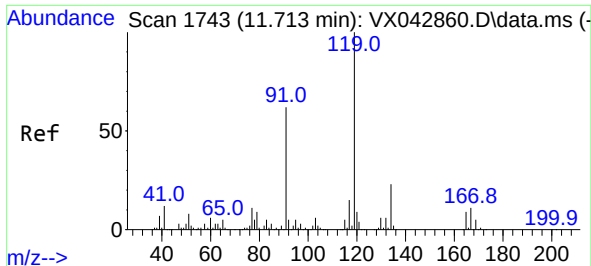
Tgt Ion: 98 Resp: 280805
Ion Ratio Lower Upper
98 100
100 63.8 50.9 76.3



#77
t-1,4-Dichloro-2-butene
Concen: 41.475 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

Tgt Ion: 75 Resp: 47925
Ion Ratio Lower Upper
75 100
53 0.0 48.5 145.5#
89 0.0 21.9 65.5#





#79

tert-butylbenzene

Concen: 1.315 ug/l

RT: 12.012 min Scan# 11

Delta R.T. 0.299 min

Lab File: VX042946.D

Acq: 08 Aug 2024 11:55

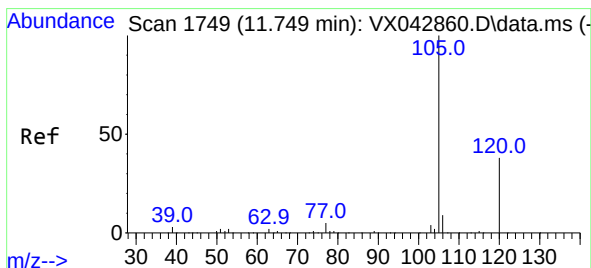
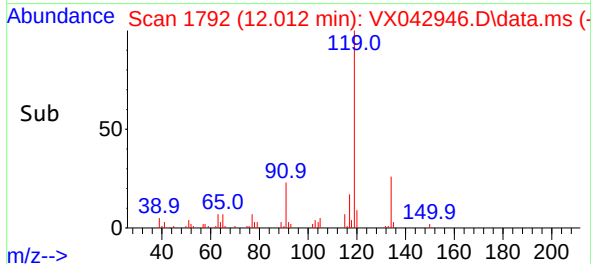
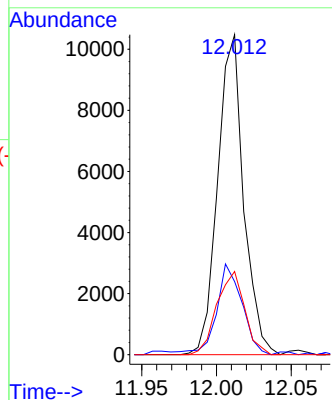
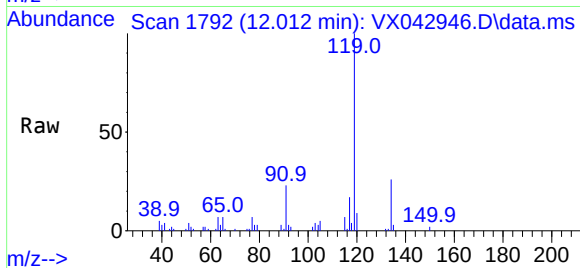
Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:119 Resp: 12617

Ion	Ratio	Lower	Upper
119	100		
91	27.9	0.0	118.6
134	28.0	0.0	44.4



#80

1,2,4-Trimethylbenzene

Concen: 0.313 ug/l

RT: 11.762 min Scan# 1751

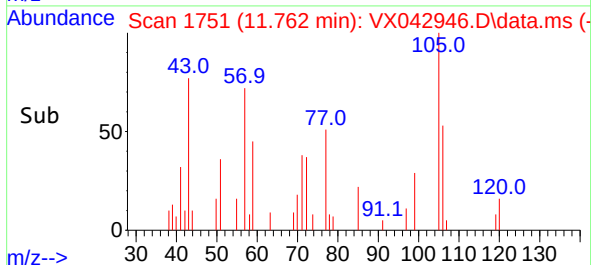
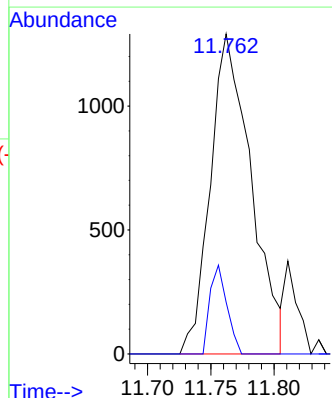
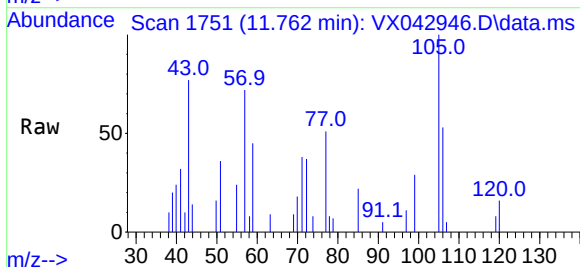
Delta R.T. 0.013 min

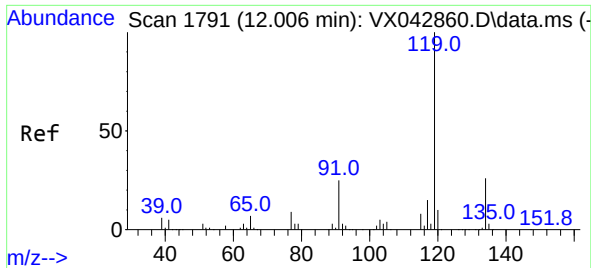
Lab File: VX042946.D

Acq: 08 Aug 2024 11:55

Tgt Ion:105 Resp: 2891

Ion	Ratio	Lower	Upper
105	100		
120	11.5	0.0	87.8

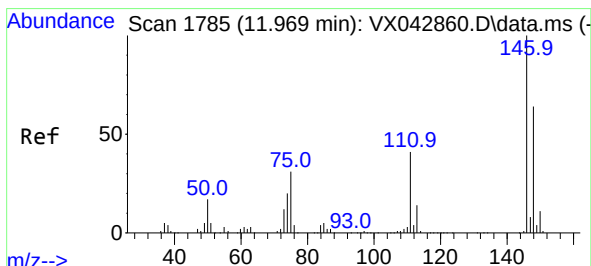
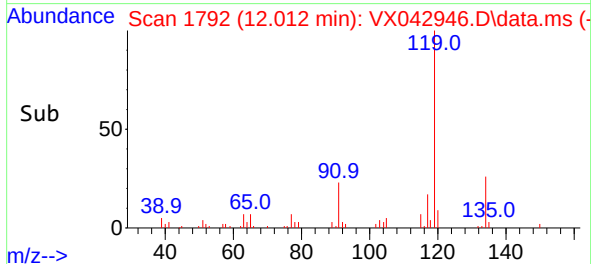
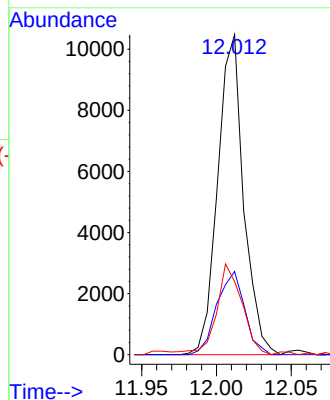
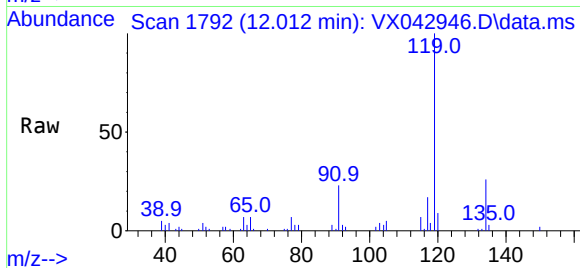




#82
p-Isopropyltoluene
Concen: 1.281 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.007 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

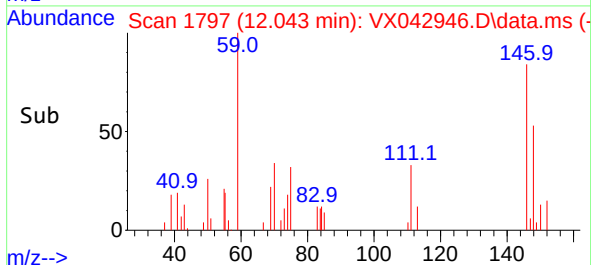
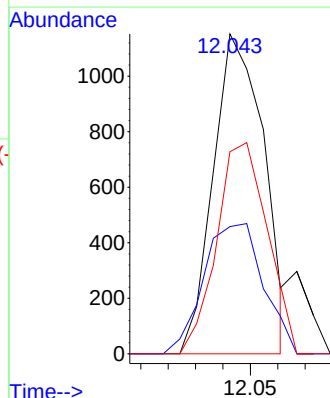
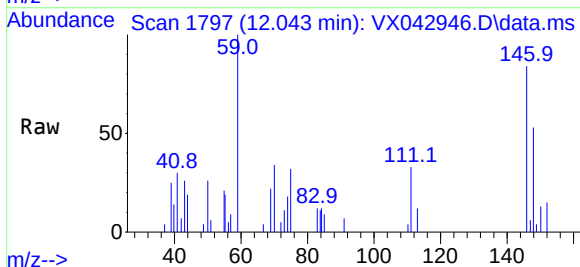
Instrument :
MSVOA_X
ClientSampleId :

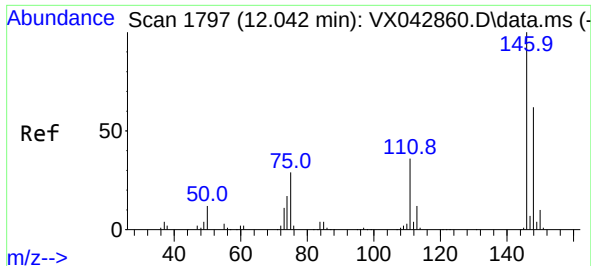
Tgt Ion:119	Resp:	12617
Ion	Ratio	Lower Upper
119	100	
134	28.0	0.0 51.8
91	27.9	0.0 48.4



#83
1,3-Dichlorobenzene
Concen: 0.287 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.074 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

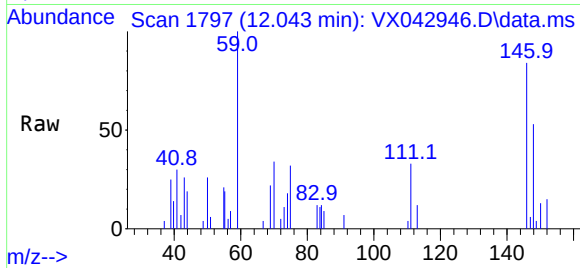
Tgt Ion:146	Resp:	1481
Ion	Ratio	Lower Upper
146	100	
111	48.0	20.3 61.0
148	66.2	31.7 95.1



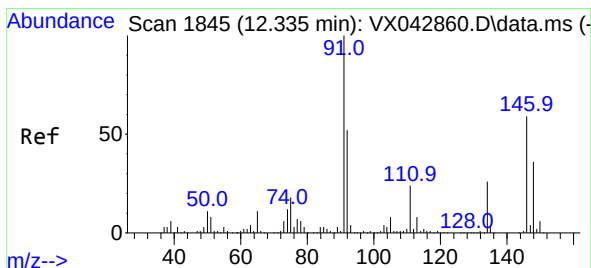
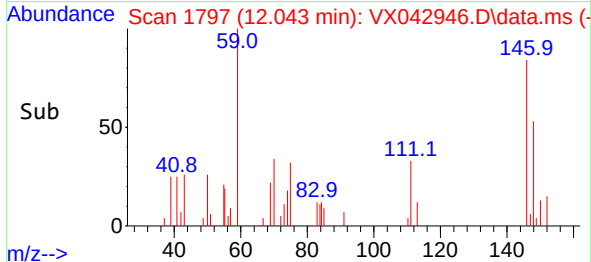
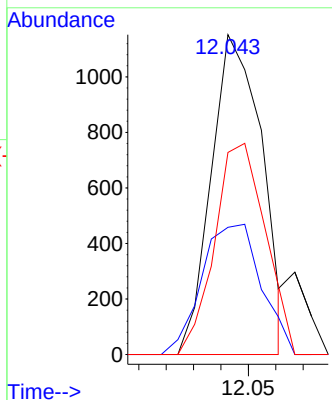


#84
1,4-Dichlorobenzene
Concen: 0.286 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:146 Resp: 1481
Ion Ratio Lower Upper
146 100
111 48.0 19.4 58.4
148 66.2 31.4 94.2



#87
1,2-Dichlorobenzene
Concen: 0.288 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. -0.292 min
Lab File: VX042946.D
Acq: 08 Aug 2024 11:55

Tgt Ion:146 Resp: 1481
Ion Ratio Lower Upper
146 100
111 48.0 21.0 63.0
148 66.2 30.8 92.4

