

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081324\
 Data File : VX043016.D
 Acq On : 13 Aug 2024 15:43
 Operator : JC/MD
 Sample : P3546-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Aug 14 04:34:04 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 13 13:22:56 2024
 Response via : Initial Calibration

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

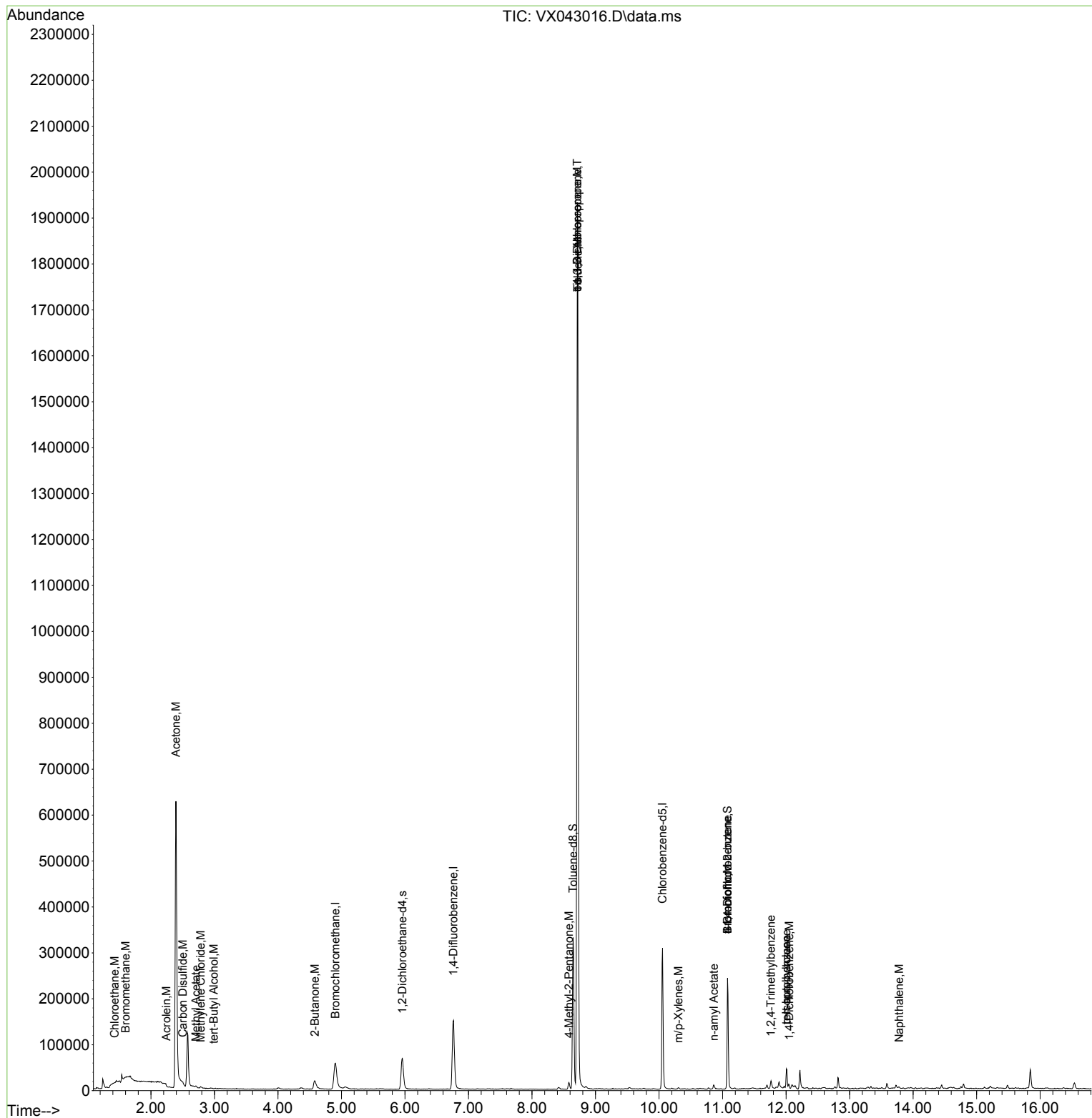
Internal Standards						
1) Bromochloromethane	4.904	128	28005	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	162754	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	142752	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	60647	26.753	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	89.167%#		
60) 4-Bromofluorobenzene	11.079	95	69767	28.789	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.967%		
63) Toluene-d8	8.647	98	201652	30.751	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.500%		
Target Compounds					Qvalue	
5) Bromomethane	1.599	94	227	0.387	ug/l	92
6) Chloroethane	1.429	64	14628	24.591	ug/l #	56
12) Methyl Acetate	2.709	43	4400	1.262	ug/l	100
13) Acrolein	2.239	56	439	0.766	ug/l	88
15) Acetone	2.392	58	236669	640.843	ug/l	79
16) Carbon Disulfide	2.502	76	4543	0.796	ug/l	96
18) Methylene Chloride	2.782	84	1779	0.796	ug/l	96
23) tert-Butyl Alcohol	2.989	59	319	0.553	ug/l #	100
30) 2-Butanone	4.580	43	36786	20.553	ug/l #	96
47) n-amyl Acetate	10.866	43	1506	0.306	ug/l #	17
48) t-1,3-Dichloropropene	8.714	75	8217	2.685	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	8217	2.461	ug/l #	1
56) Bromoform	11.079	173	408	0.282	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	9818	2.974	ug/l	99
62) Toluene	8.720	91	1299253	159.330	ug/l	98
67) m/p-Xylenes	10.305	106	918	0.277	ug/l	92
77) t-1,4-Dichloro-2-butene	11.079	75	32484	26.389	ug/l #	11
79) tert-butylbenzene	12.006	119	20227	2.928	ug/l	63
80) 1,2,4-Trimethylbenzene	11.762	105	3147	0.455	ug/l	62
82) p-Isopropyltoluene	12.006	119	20227	2.864	ug/l	99
84) 1,4-Dichlorobenzene	12.049	146	1702	0.483	ug/l	93
91) Naphthalene	13.780	128	2625	0.324	ug/l #	94

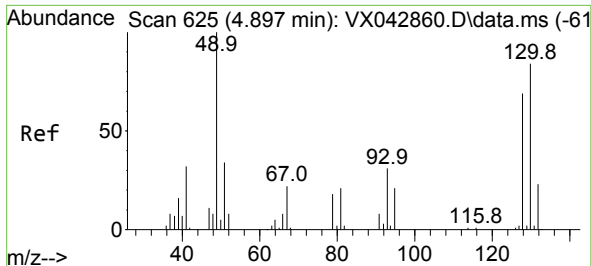
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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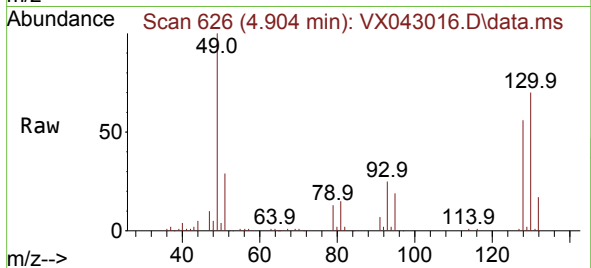
Quant Time: Aug 14 04:34:04 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X081324W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Aug 13 13:22:56 2024
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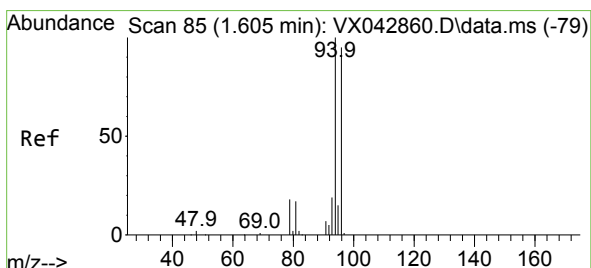
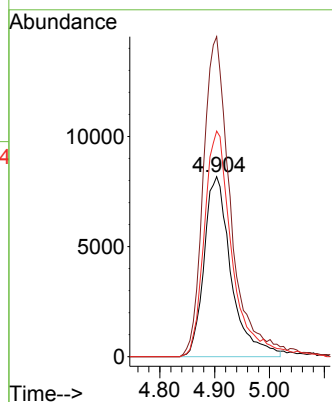
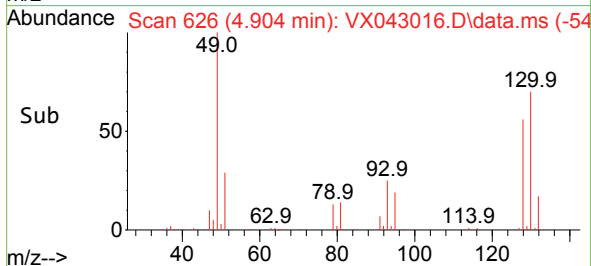


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

Instrument :
MSVOA_X
ClientSampleId :

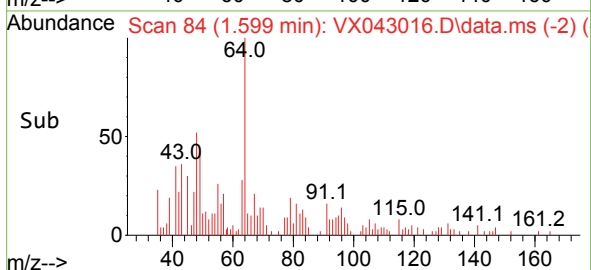
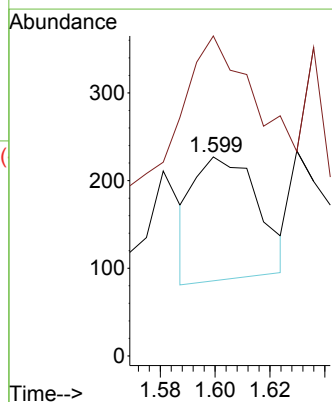
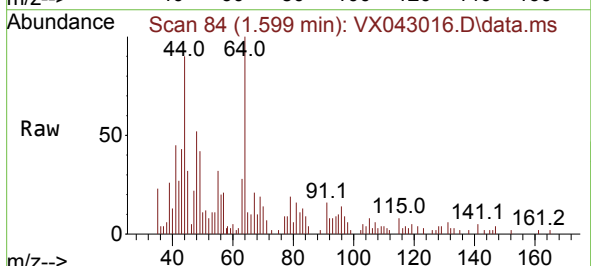


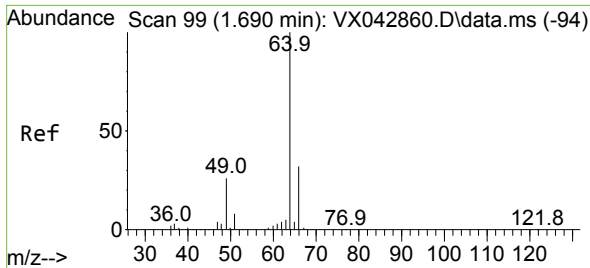
Tgt Ion:128 Resp: 28005
Ion Ratio Lower Upper
128 100
49 175.2 0.0 400.5
130 123.5 0.0 333.0



#5
Bromomethane
Concen: 0.387 ug/l
RT: 1.599 min Scan# 84
Delta R.T. 0.000 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

Tgt Ion: 94 Resp: 227
Ion Ratio Lower Upper
94 100
96 103.3 76.2 114.4

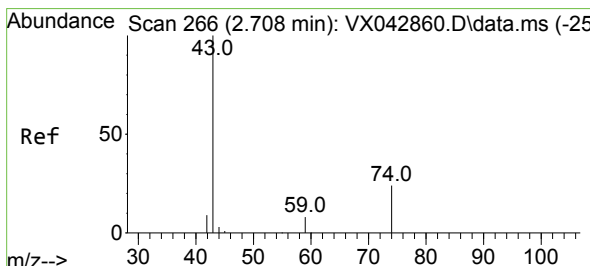
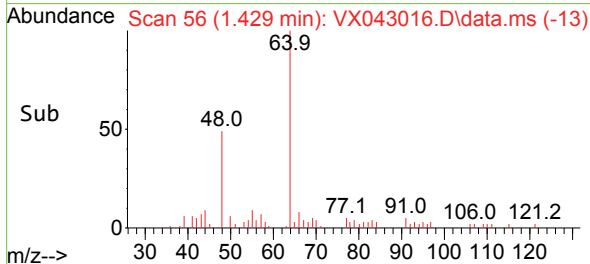
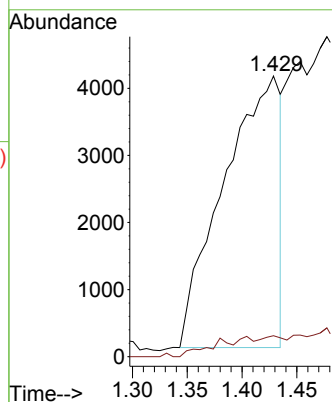
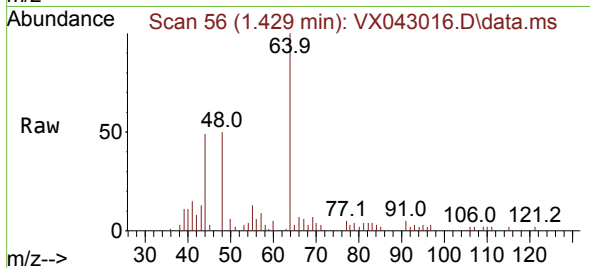




#6
Chloroethane
Concen: 24.591 ug/l
RT: 1.429 min Scan# 50
Delta R.T. -0.238 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

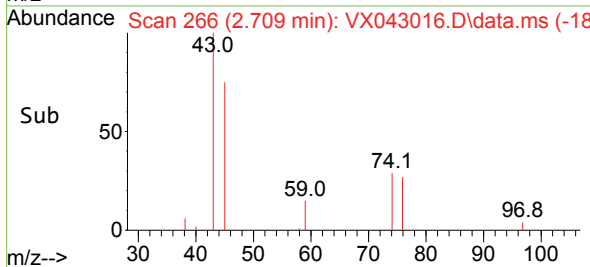
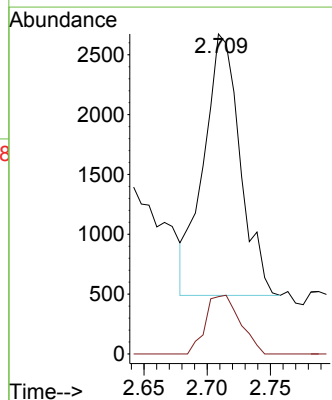
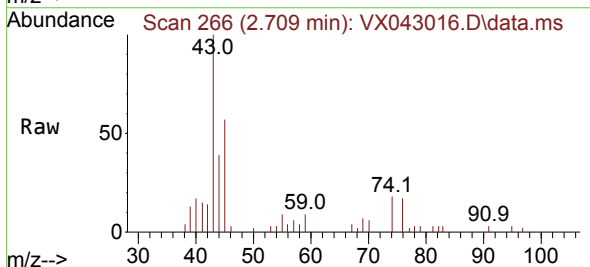
Instrument :
MSVOA_X
ClientSampleId :

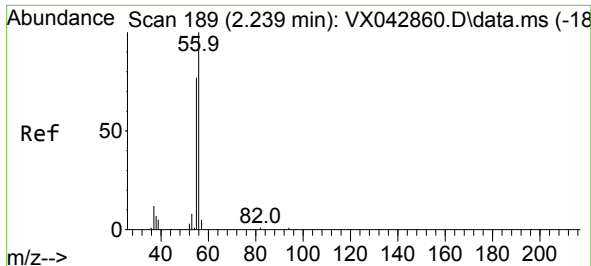
Tgt Ion: 64 Resp: 14628
Ion Ratio Lower Upper
64 100
66 7.7 25.9 38.9#



#12
Methyl Acetate
Concen: 1.262 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.000 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

Tgt Ion: 43 Resp: 4400
Ion Ratio Lower Upper
43 100
74 24.4 19.4 29.2





#13

Acrolein

Concen: 0.766 ug/l

RT: 2.239 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX043016.D

Acq: 13 Aug 2024 15:43

Instrument :

MSVOA_X

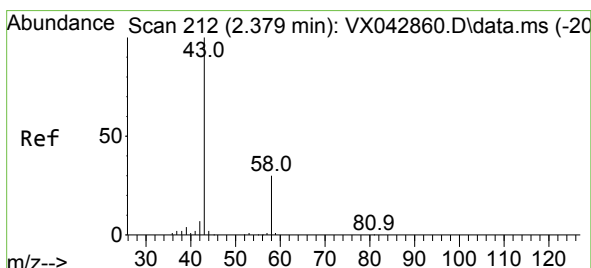
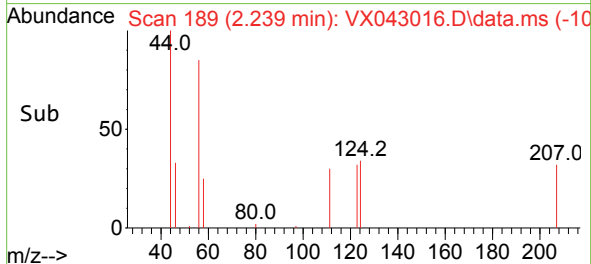
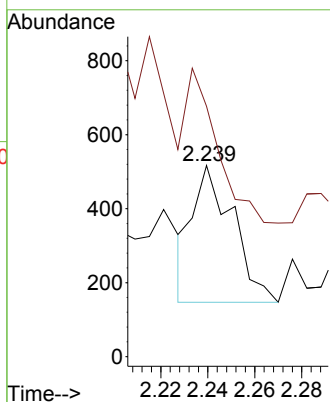
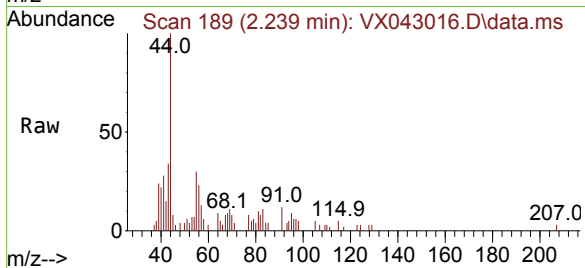
ClientSampleId :

Tgt Ion: 56 Resp: 439

Ion Ratio Lower Upper

56 100

55 85.9 60.6 90.8



#15

Acetone

Concen: 640.843 ug/l

RT: 2.392 min Scan# 214

Delta R.T. 0.000 min

Lab File: VX043016.D

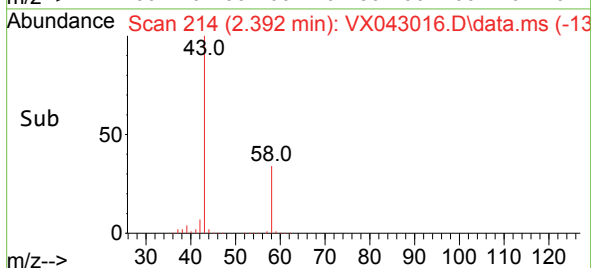
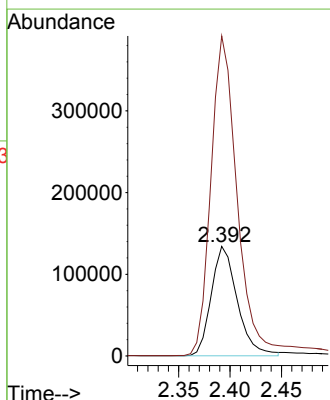
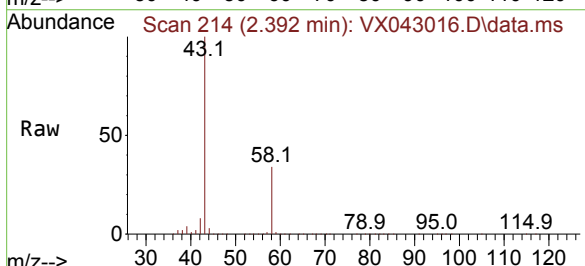
Acq: 13 Aug 2024 15:43

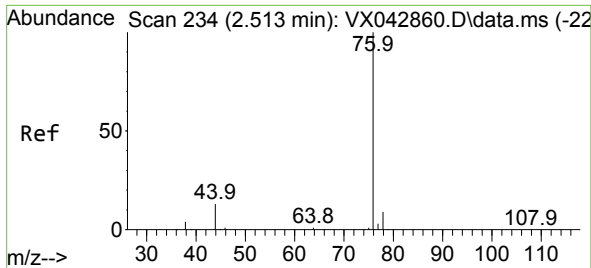
Tgt Ion: 58 Resp: 236669

Ion Ratio Lower Upper

58 100

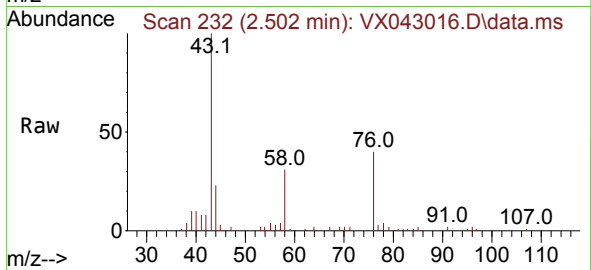
43 292.1 269.9 404.9



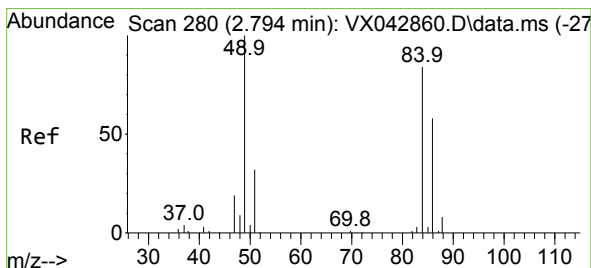
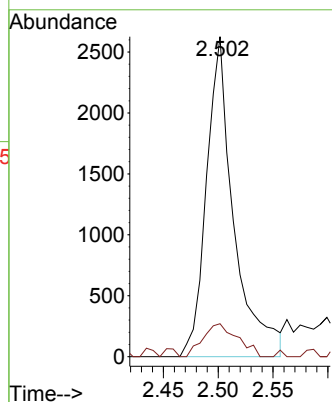
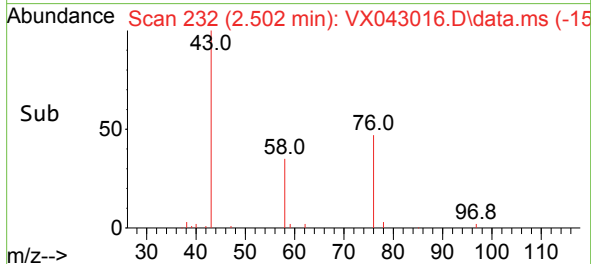


#16
Carbon Disulfide
Concen: 0.796 ug/l
RT: 2.502 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

Instrument :
MSVOA_X
ClientSampleId :

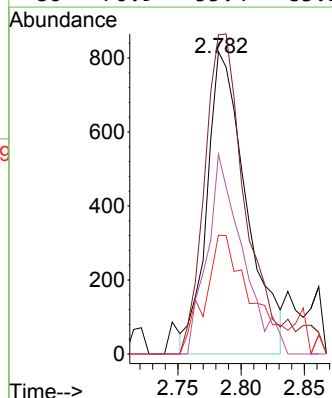
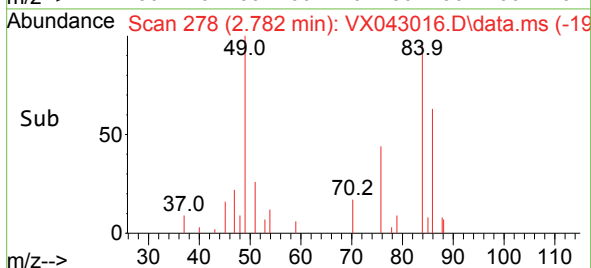
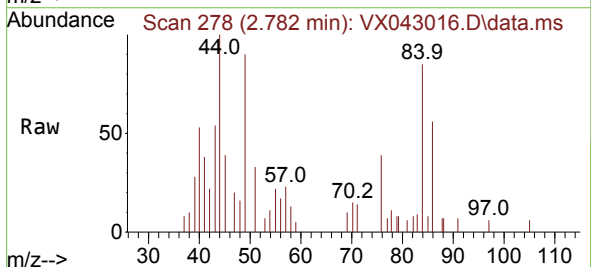


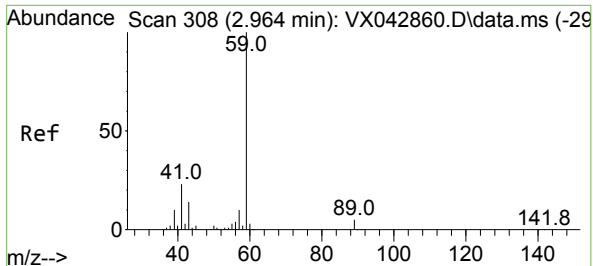
Tgt Ion: 76 Resp: 4543
Ion Ratio Lower Upper
76 100
78 10.3 7.1 10.7



#18
Methylene Chloride
Concen: 0.796 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

Tgt Ion: 84 Resp: 1779
Ion Ratio Lower Upper
84 100
49 113.3 95.0 142.6
51 42.1 30.1 45.1
86 70.9 55.4 83.2

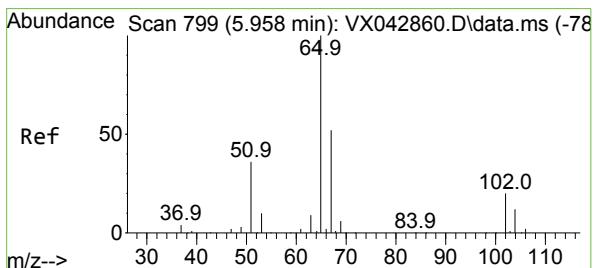
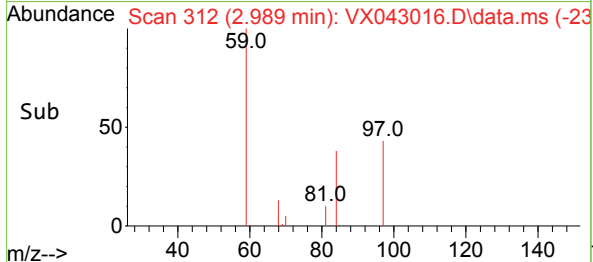
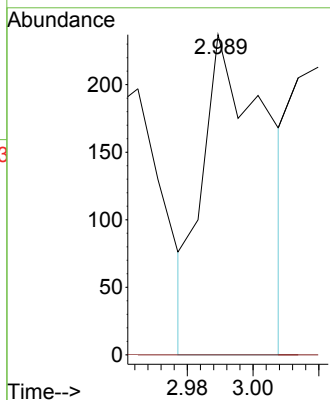
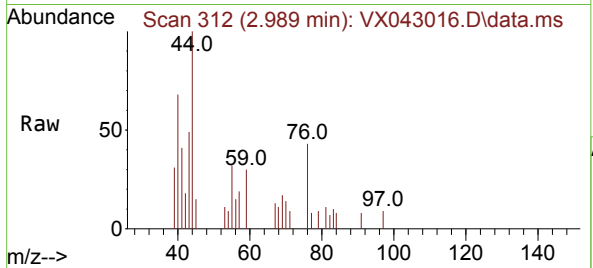




#23
tert-Butyl Alcohol
Concen: 0.553 ug/l
RT: 2.989 min Scan# 312
Delta R.T. -0.006 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

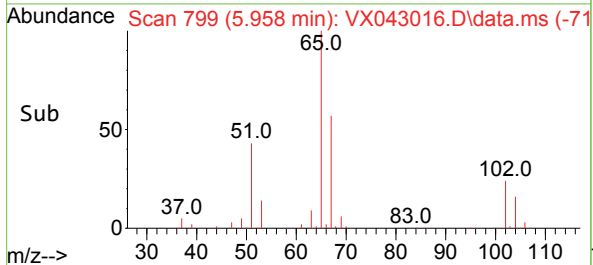
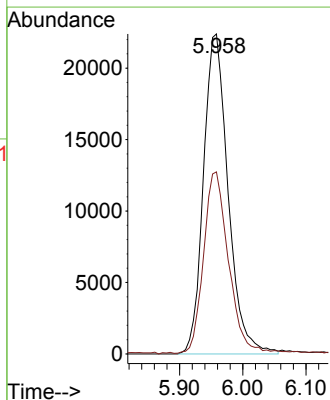
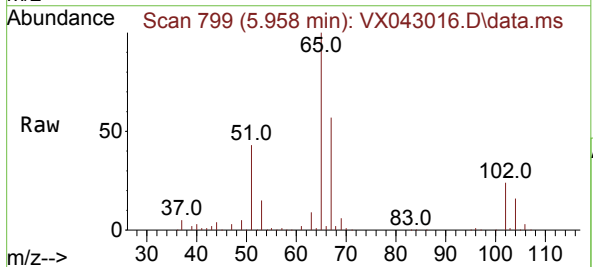
Instrument :
MSVOA_X
ClientSampleId :

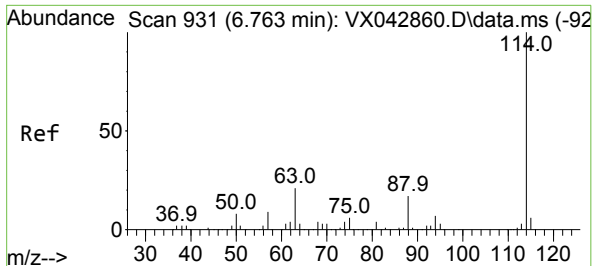
Tgt Ion: 59 Resp: 319
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 26.753 ug/l
RT: 5.958 min Scan# 799
Delta R.T. 0.000 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

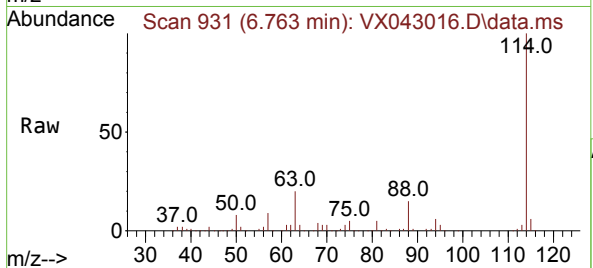
Tgt Ion: 65 Resp: 60647
Ion Ratio Lower Upper
65 100
67 56.8 40.6 60.8



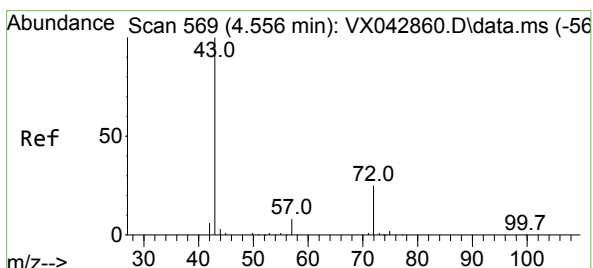
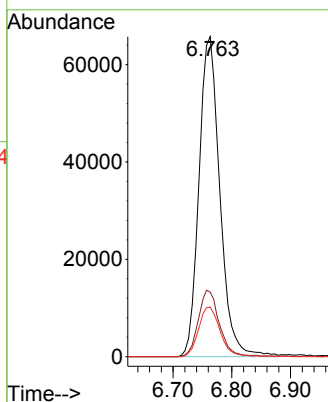
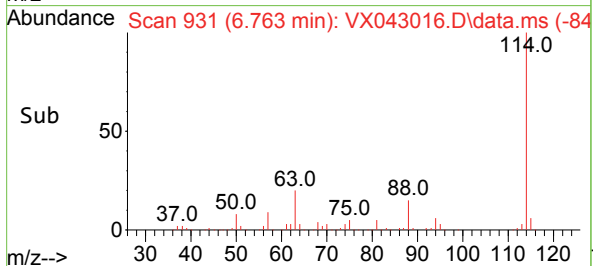


#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

Instrument :
MSVOA_X
ClientSampleId :

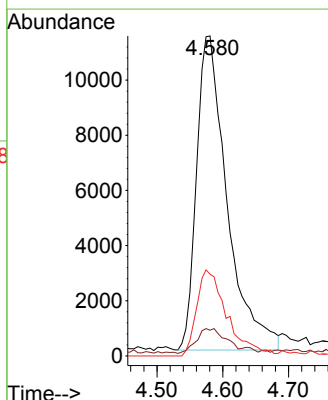
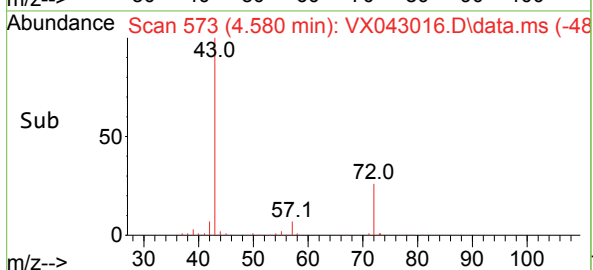
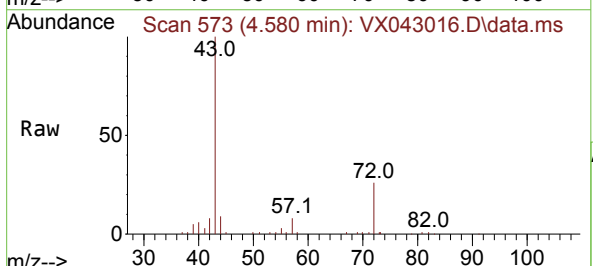


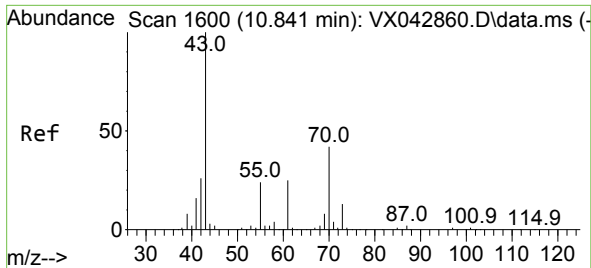
Tgt Ion:114 Resp: 162754
Ion Ratio Lower Upper
114 100
63 20.7 16.0 24.0
88 15.8 12.5 18.7



#30
2-Butanone
Concen: 20.553 ug/l
RT: 4.580 min Scan# 573
Delta R.T. 0.012 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

Tgt Ion: 43 Resp: 36786
Ion Ratio Lower Upper
43 100
57 3.8 6.6 10.0#
72 26.8 21.0 31.4

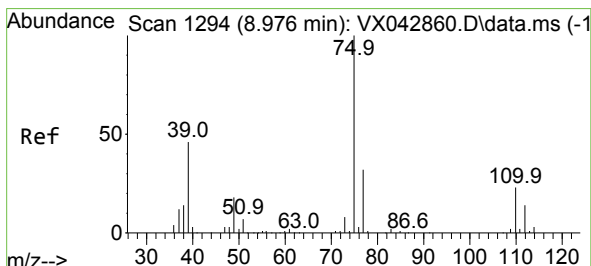
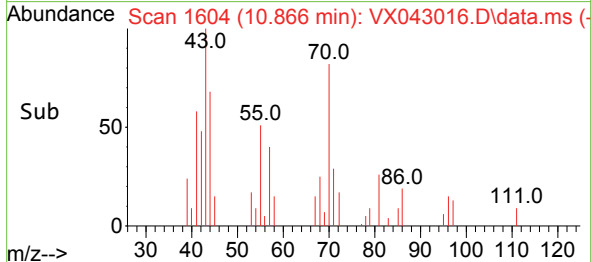
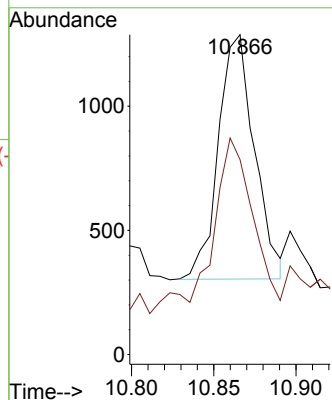
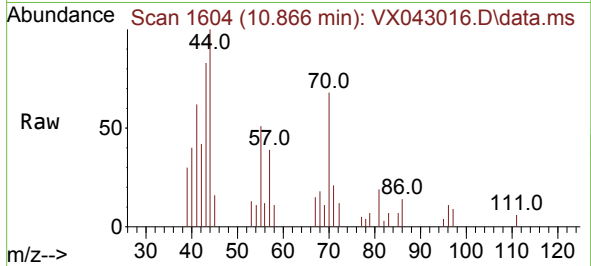




#47
n-amy1 Acetate
Concen: 0.306 ug/l
RT: 10.866 min Scan# 1604
Delta R.T. 0.024 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

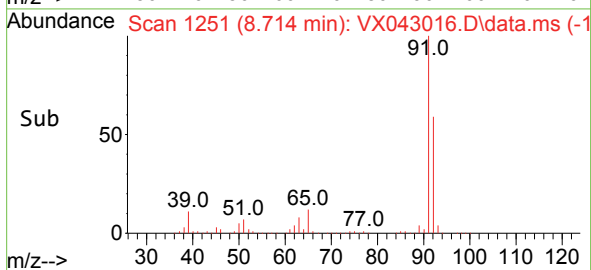
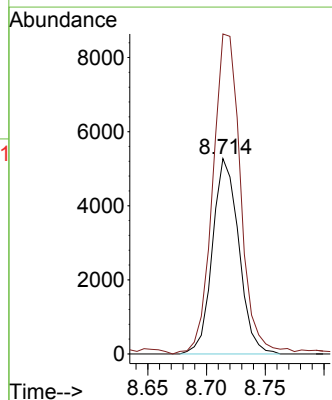
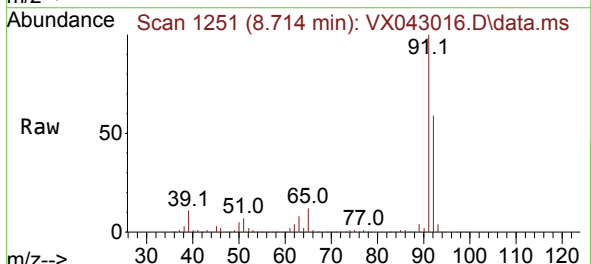
Instrument :
MSVOA_X
ClientSampleId :

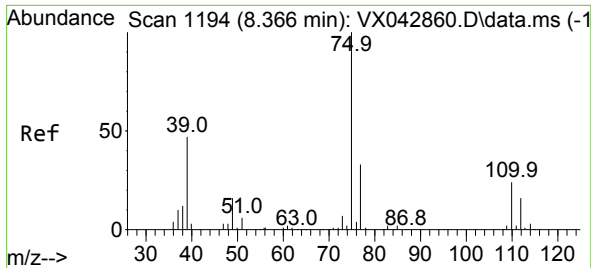
Tgt Ion: 43 Resp: 1506
Ion Ratio Lower Upper
43 100
55 65.6 19.6 29.4#



#48
t-1,3-Dichloropropene
Concen: 2.685 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.268 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

Tgt Ion: 75 Resp: 8217
Ion Ratio Lower Upper
75 100
77 162.5 25.6 38.4#





#49

cis-1,3-Dichloropropene

Concen: 2.461 ug/l

RT: 8.714 min Scan# 1

Delta R.T. 0.348 min

Lab File: VX043016.D

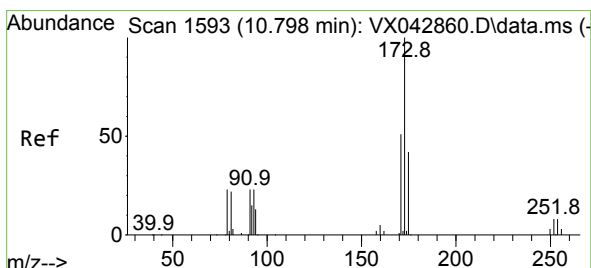
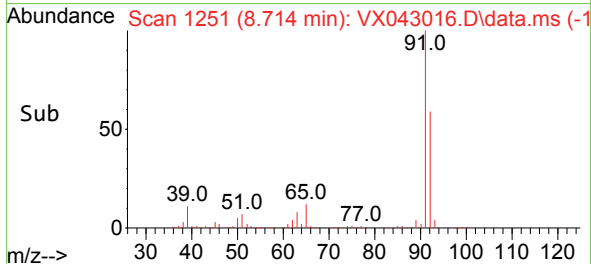
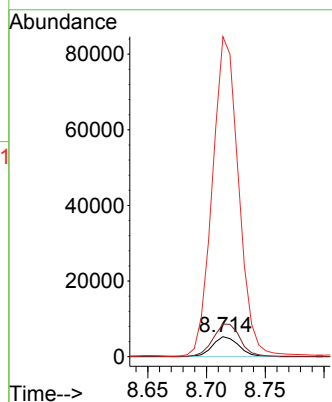
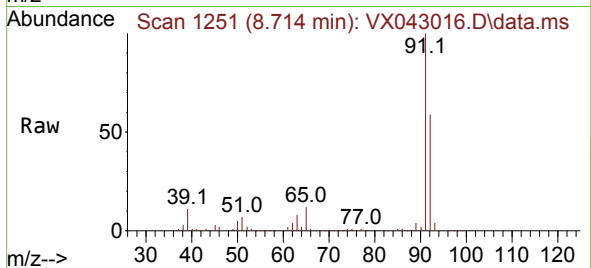
Acq: 13 Aug 2024 15:43

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 75 Resp: 8217
 Ion Ratio Lower Upper
 75 100
 77 162.5 26.8 40.2#
 39 1600.6 37.5 56.3#



#56

Bromoform

Concen: 0.282 ug/l

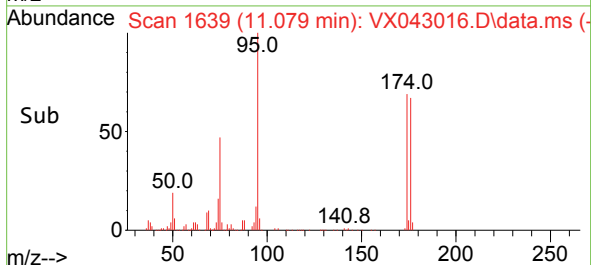
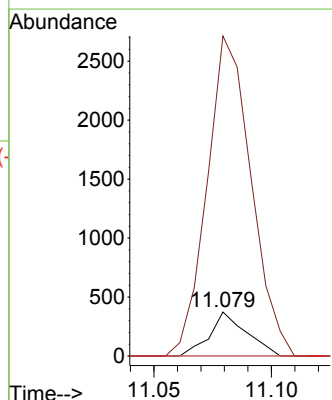
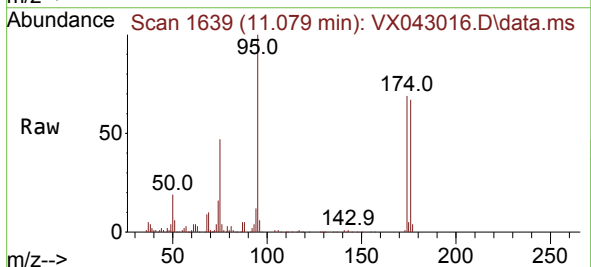
RT: 11.079 min Scan# 1639

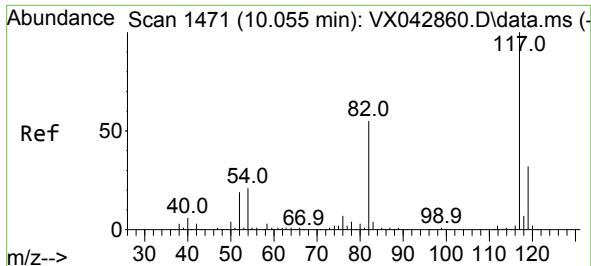
Delta R.T. 0.280 min

Lab File: VX043016.D

Acq: 13 Aug 2024 15:43

Tgt Ion:173 Resp: 408
 Ion Ratio Lower Upper
 173 100
 175 870.1 37.1 55.7#
 254 0.0 6.6 10.0#

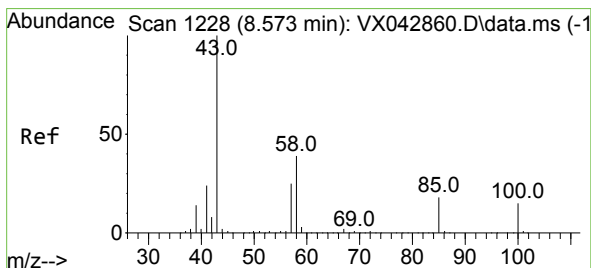
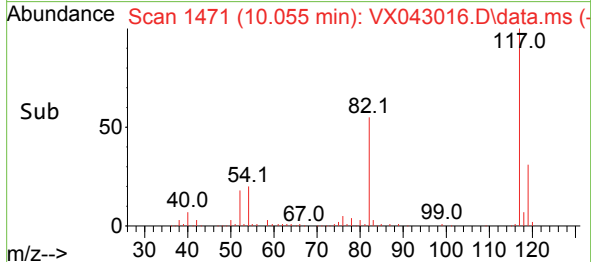
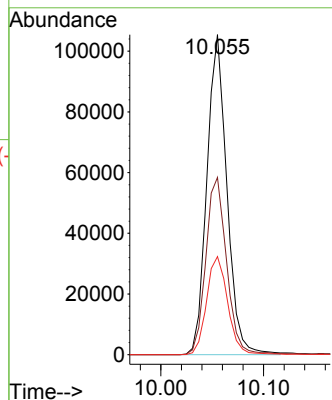
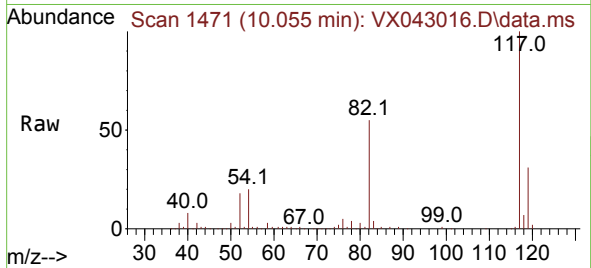




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

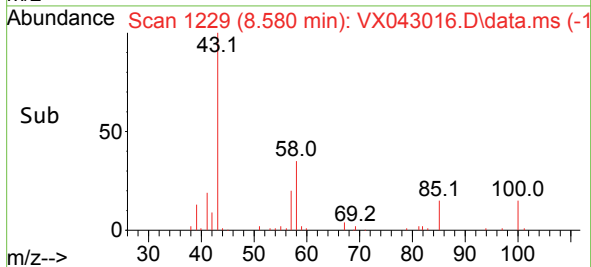
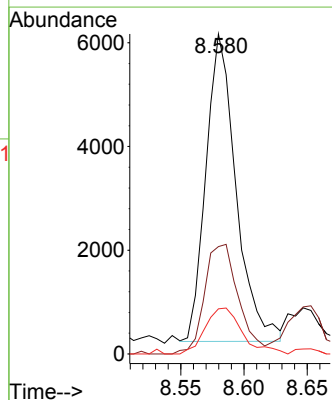
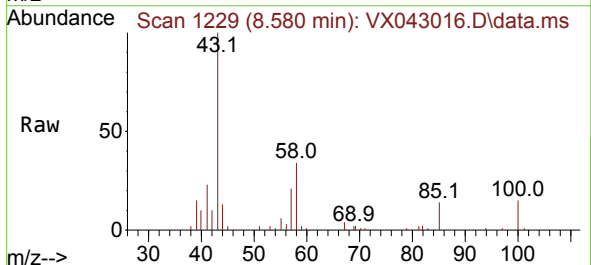
Instrument :
MSVOA_X
ClientSampleId :

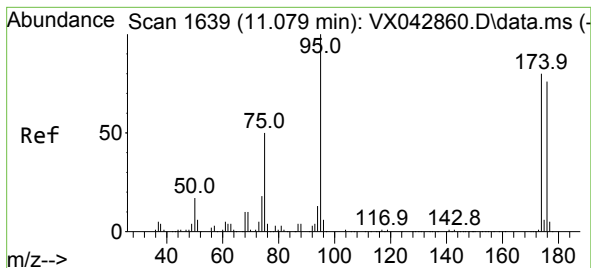
Tgt Ion:117 Resp: 142752
Ion Ratio Lower Upper
117 100
82 57.9 44.9 67.3
119 32.4 25.4 38.2



#58
4-Methyl-2-Pentanone
Concen: 2.974 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

Tgt Ion: 43 Resp: 9818
Ion Ratio Lower Upper
43 100
58 40.0 31.4 47.0
85 18.3 14.6 21.8

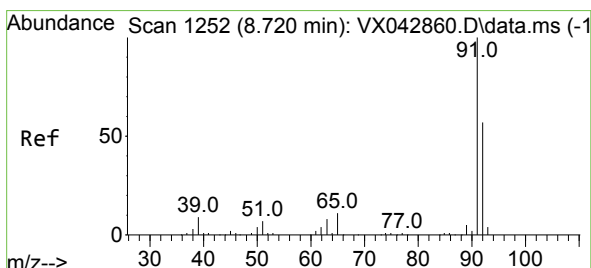
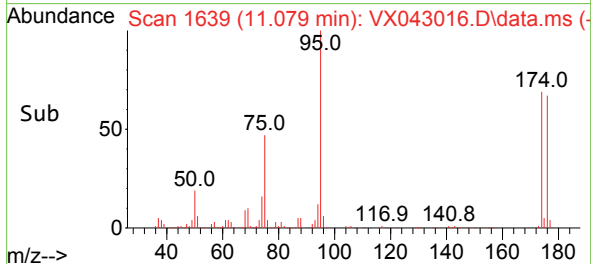
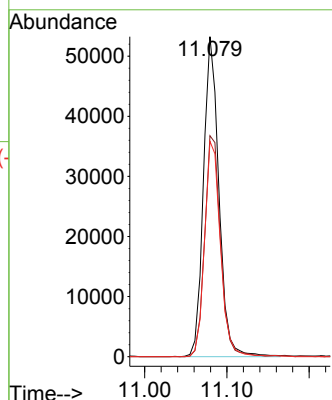
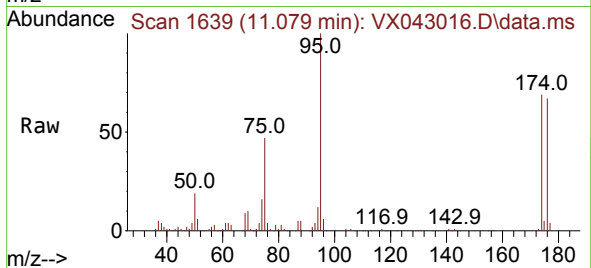




#60
4-Bromofluorobenzene
Concen: 28.789 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

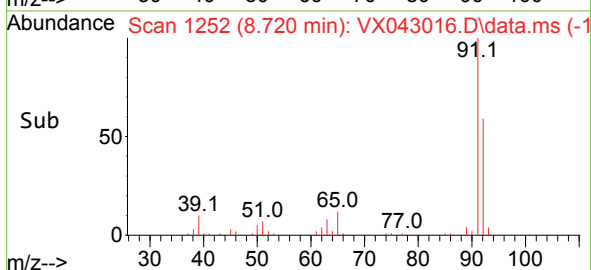
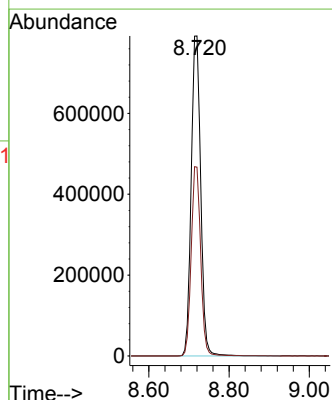
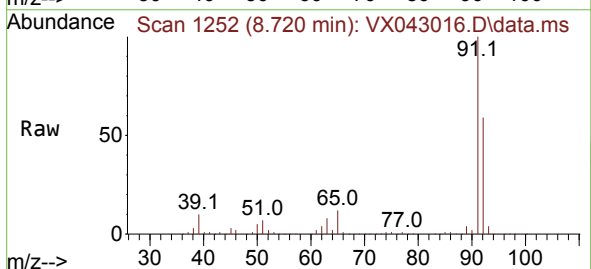
Instrument :
MSVOA_X
ClientSampleId :

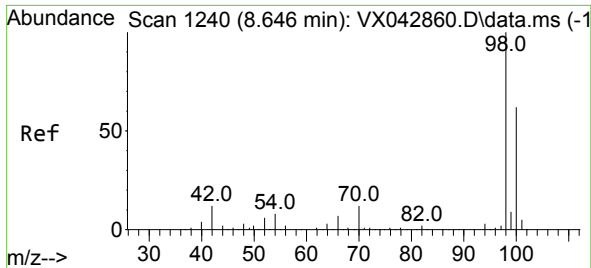
Tgt Ion: 95 Resp: 69767
Ion Ratio Lower Upper
95 100
174 70.9 65.0 97.6
176 68.8 63.4 95.0



#62
Toluene
Concen: 159.330 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

Tgt Ion: 91 Resp: 1299253
Ion Ratio Lower Upper
91 100
92 58.8 45.7 68.5

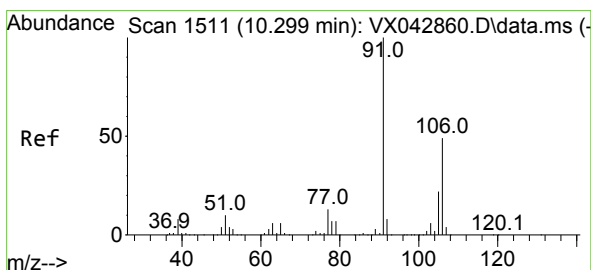
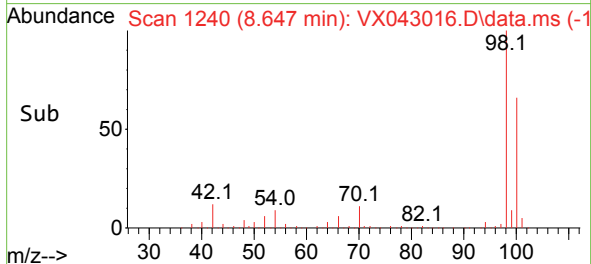
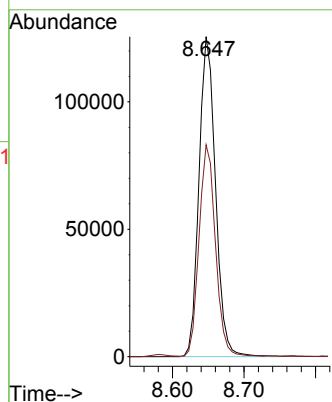
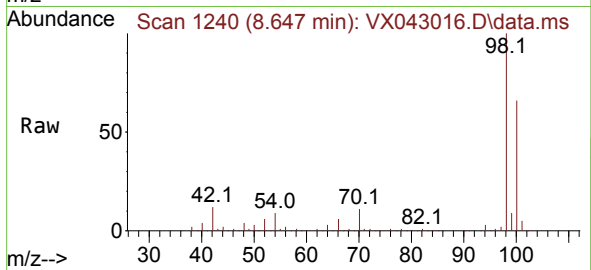




#63
Toluene-d8
Concen: 30.751 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

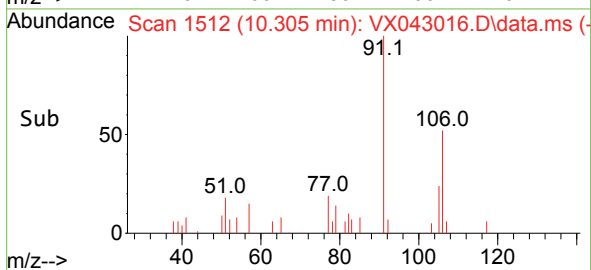
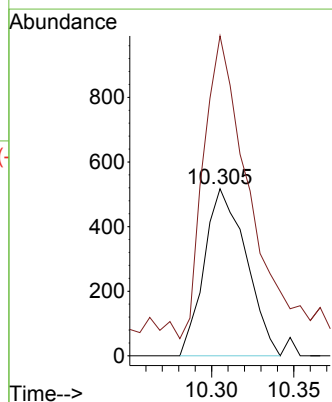
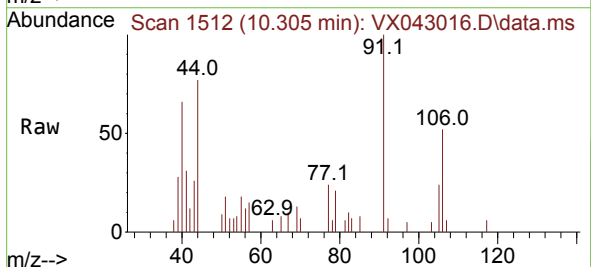
Instrument :
MSVOA_X
ClientSampleId :

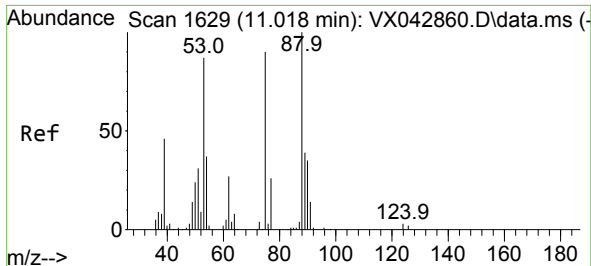
Tgt Ion: 98 Resp: 201652
Ion Ratio Lower Upper
98 100
100 65.8 50.9 76.3



#67
m/p-Xylenes
Concen: 0.277 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

Tgt Ion: 106 Resp: 918
Ion Ratio Lower Upper
106 100
91 195.0 165.3 247.9





#77

t-1,4-Dichloro-2-butene

Concen: 26.389 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.061 min

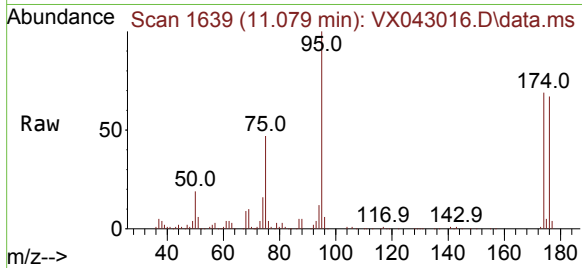
Lab File: VX043016.D

Acq: 13 Aug 2024 15:43

Instrument :

MSVOA_X

ClientSampleId :



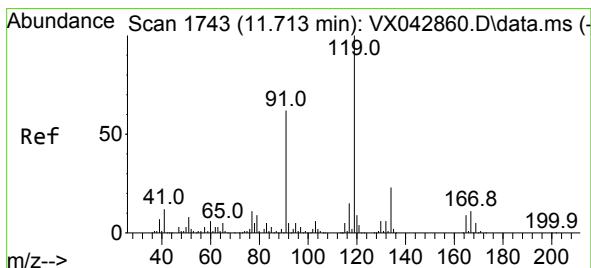
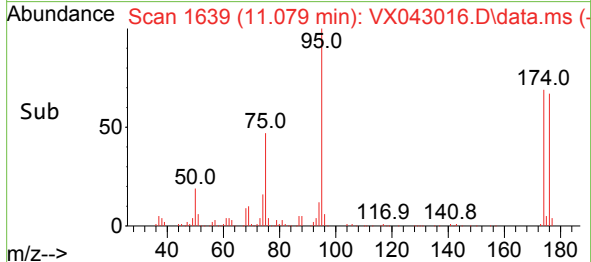
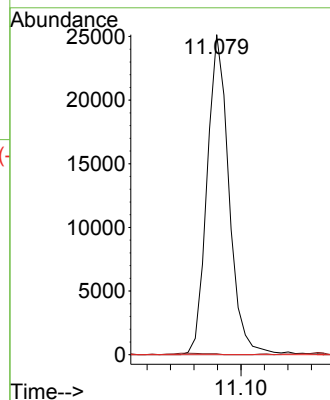
Tgt Ion: 75 Resp: 32484

Ion Ratio Lower Upper

75 100

53 0.1 48.5 145.5#

89 0.0 21.9 65.5#



#79

tert-butylbenzene

Concen: 2.928 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.293 min

Lab File: VX043016.D

Acq: 13 Aug 2024 15:43

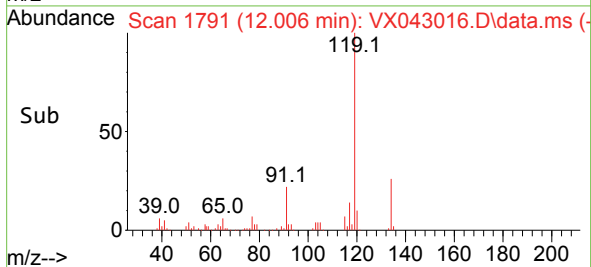
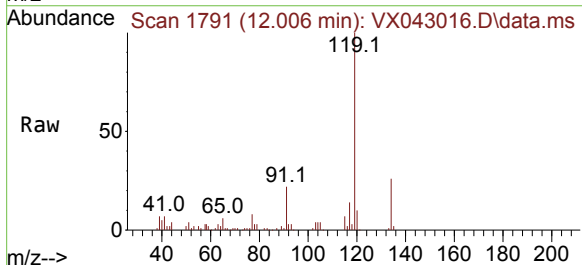
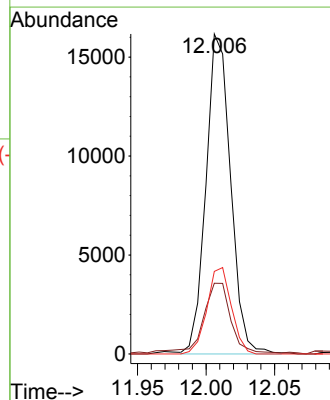
Tgt Ion: 119 Resp: 20227

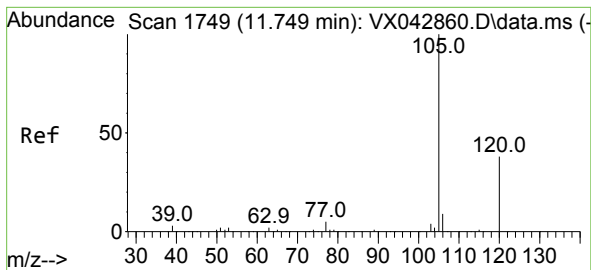
Ion Ratio Lower Upper

119 100

91 24.0 0.0 118.6

134 26.7 0.0 44.4





#80

1,2,4-Trimethylbenzene

Concen: 0.455 ug/l

RT: 11.762 min Scan# 1751

Delta R.T. 0.012 min

Lab File: VX043016.D

Acq: 13 Aug 2024 15:43

Instrument :

MSVOA_X

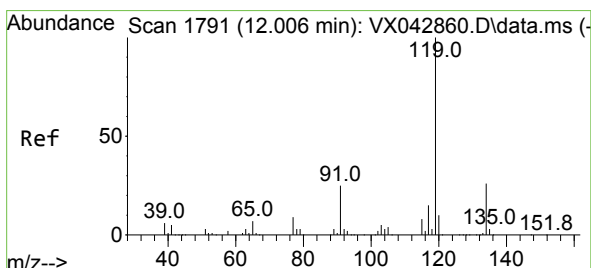
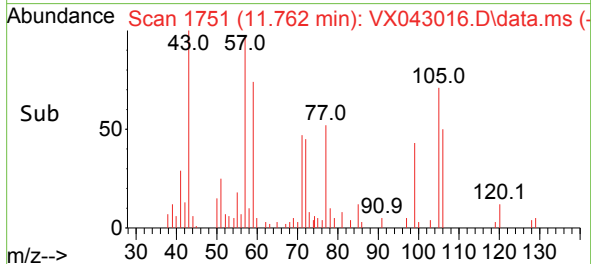
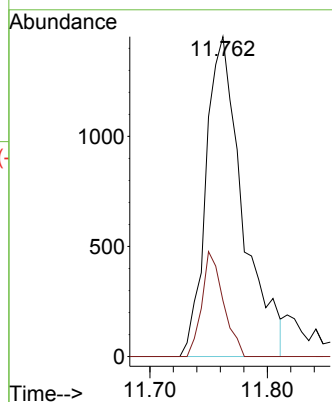
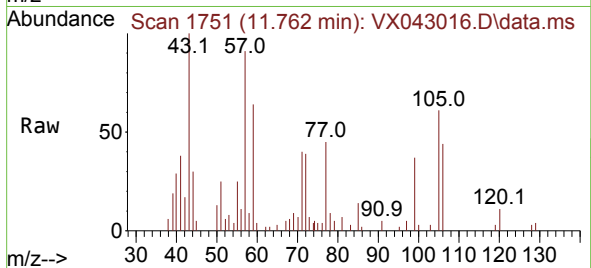
ClientSampleId :

Tgt Ion:105 Resp: 3147

Ion Ratio Lower Upper

105 100

120 19.3 0.0 87.8



#82

p-Isopropyltoluene

Concen: 2.864 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.000 min

Lab File: VX043016.D

Acq: 13 Aug 2024 15:43

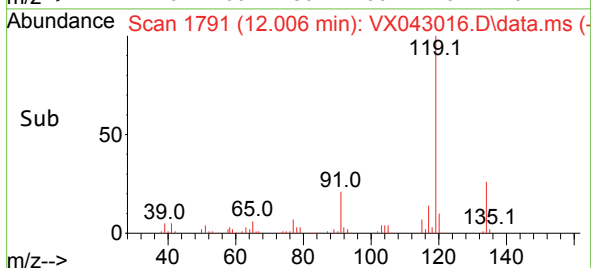
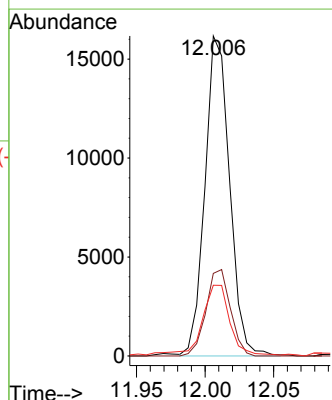
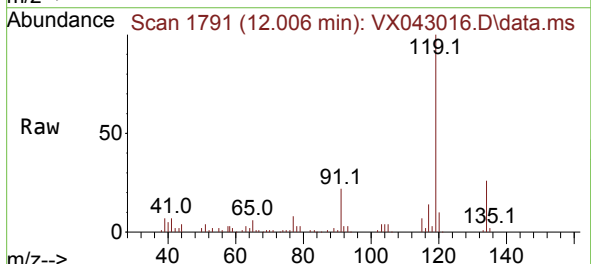
Tgt Ion:119 Resp: 20227

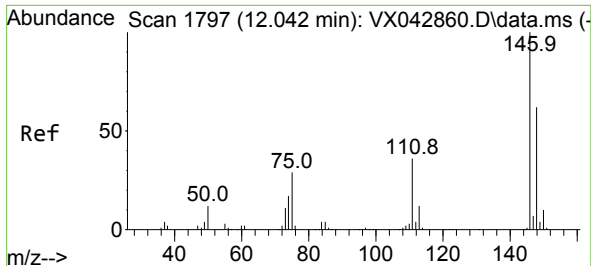
Ion Ratio Lower Upper

119 100

134 26.7 0.0 51.8

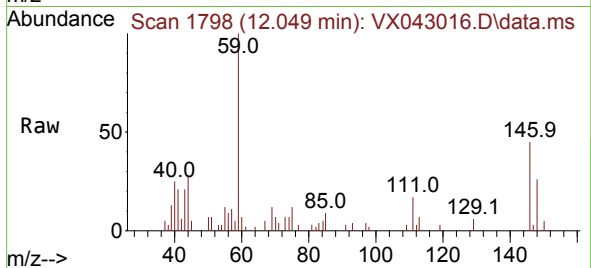
91 24.0 0.0 48.4



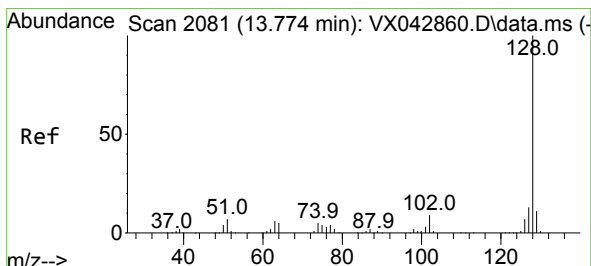
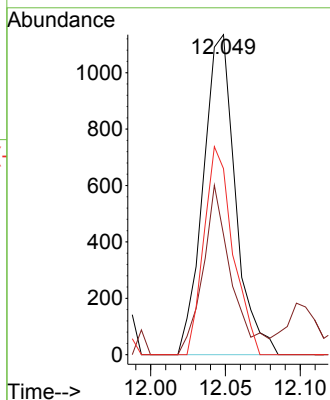
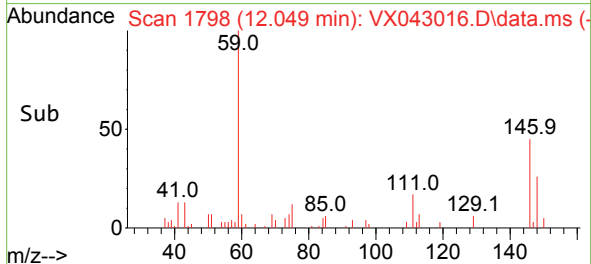


#84
1,4-Dichlorobenzene
Concen: 0.483 ug/l
RT: 12.049 min Scan# 1798
Delta R.T. 0.006 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43

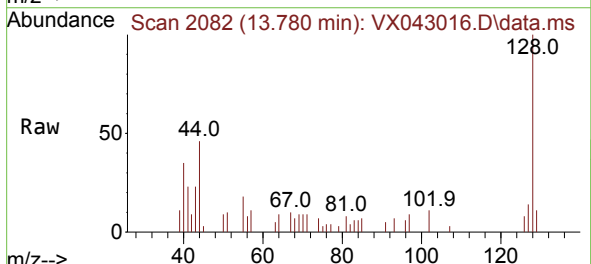
Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion:146 Resp: 1702
Ion Ratio Lower Upper
146 100
111 44.2 19.4 58.4
148 58.5 31.4 94.2



#91
Naphthalene
Concen: 0.324 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX043016.D
Acq: 13 Aug 2024 15:43



Tgt Ion:128 Resp: 2625
Ion Ratio Lower Upper
128 100
127 8.2 10.2 15.4#
129 10.9 8.8 13.2

