

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121821\
 Data File : VX025896.D
 Acq On : 17 Dec 2021 19:25
 Operator : JC/MD
 Sample : M5129-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Dec 19 02:35:25 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X121321W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 14 07:02:11 2021
 Response via : Initial Calibration

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

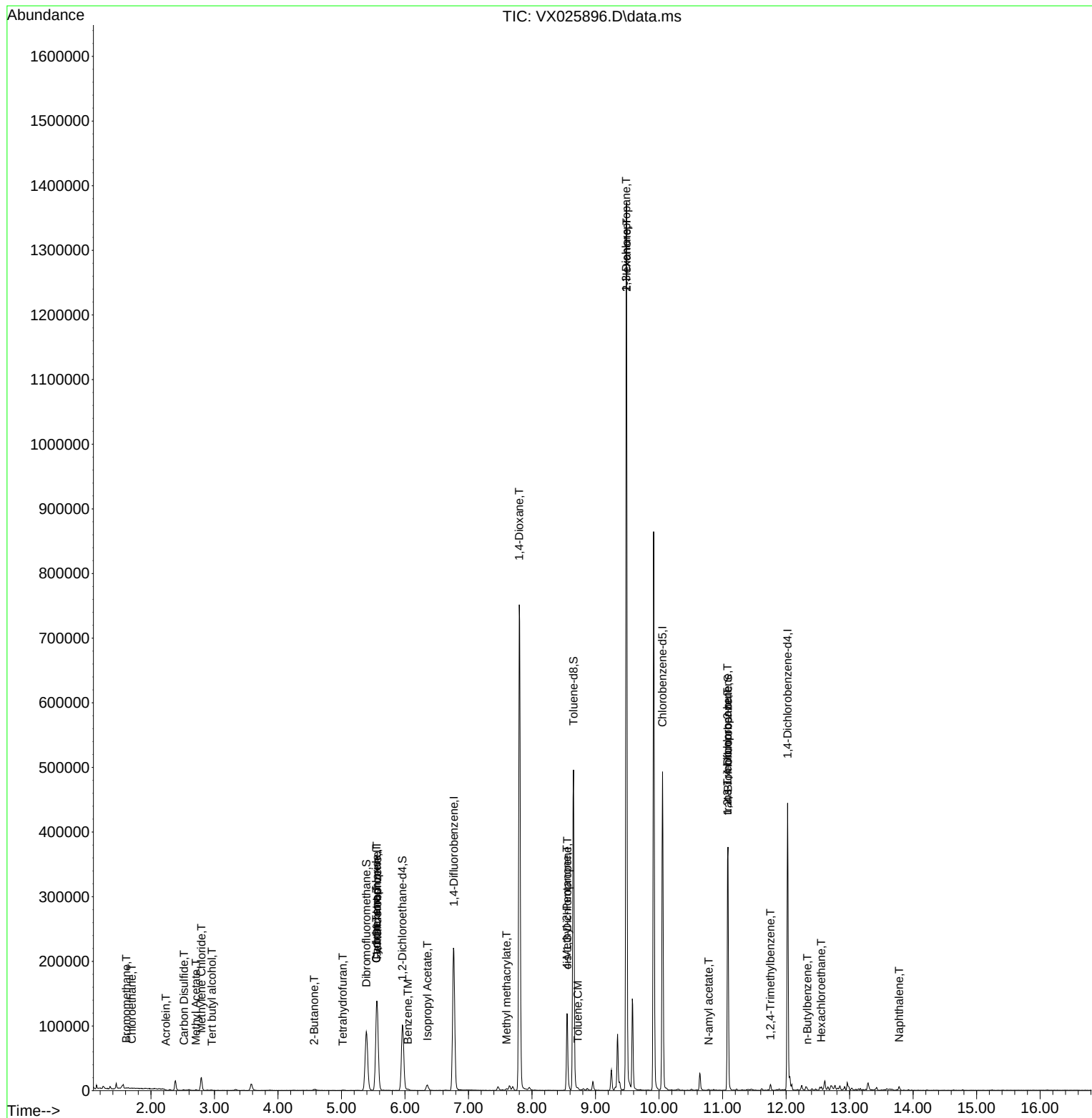
Internal Standards						
1) Pentafluorobenzene	5.562	168	125999	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	223256	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	216295	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	87727	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	96843	53.419	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 106.840%	
35) Dibromofluoromethane	5.391	113	77947	50.062	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.120%	
50) Toluene-d8	8.653	98	294340	51.884	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 103.760%	
62) 4-Bromofluorobenzene	11.085	95	101321	47.017	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 94.040%	
Target Compounds						
					Qvalue	
5) Bromomethane	1.612	94	453	0.406	ug/l #	79
6) Chloroethane	1.697	64	227	0.201	ug/l #	42
11) Tert butyl alcohol	2.959	59	571	1.570	ug/l #	73
13) Acrolein	2.233	56	56	0.225	ug/l #	57
16) Acetone	2.386	43	15787	Below Cal		96
17) Carbon Disulfide	2.520	76	941	0.246	ug/l #	75
18) Methyl Acetate	2.709	43	1102	0.399	ug/l #	87
20) Methylene Chloride	2.794	84	8131	2.968	ug/l	96
25) 2-Butanone	4.568	43	3267	2.679	ug/l	96
29) Tetrahydrofuran	5.019	42	377	0.486	ug/l #	39
31) Cyclohexane	5.550	56	3050	1.383	ug/l #	1
36) 1,1-Dichloropropene	5.556	75	10772	5.102	ug/l #	50
38) Carbon Tetrachloride	5.550	117	13717	5.583	ug/l #	16
40) Benzene	6.044	78	1718	0.273	ug/l #	87
43) Isopropyl Acetate	6.355	43	11107	2.939	ug/l	100
48) Methyl methacrylate	7.598	41	3994	2.244	ug/l #	12
49) 1,4-Dioxane	7.799	88	70	1.802	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	41113	16.617	ug/l #	51
52) Toluene	8.720	92	819	0.204	ug/l	86
54) cis-1,3-Dichloropropene	8.555	75	18875	7.430	ug/l #	65
57) 1,3-Dichloropropane	9.482	76	11926	4.225	ug/l #	42
59) 2-Hexanone	9.488	43	166045	88.576	ug/l #	51
74) N-amyl acetate	10.781	43	557	0.218	ug/l #	51
76) 1,2,3-Trichloropropane	11.079	75	53369	26.552	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	53369	82.318	ug/l #	10
84) 1,2,4-Trimethylbenzene	11.756	105	3982	0.755	ug/l	92
89) n-Butylbenzene	12.335	91	1039	0.238	ug/l #	48
90) Hexachloroethane	12.555	117	650	0.633	ug/l #	14
95) Naphthalene	13.780	128	3757	3.008	ug/l #	97

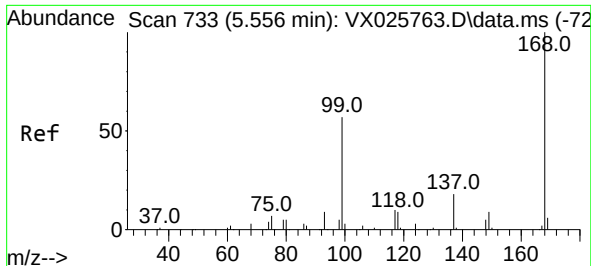
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

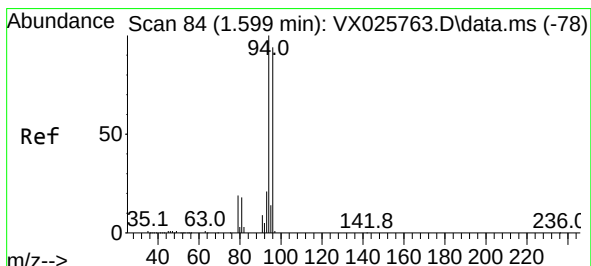
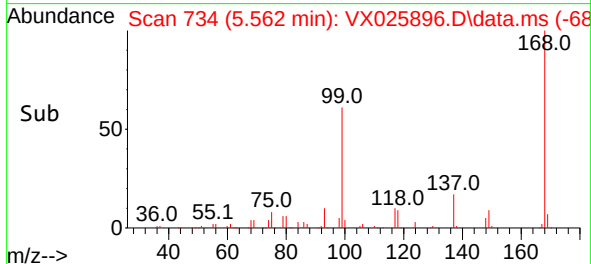
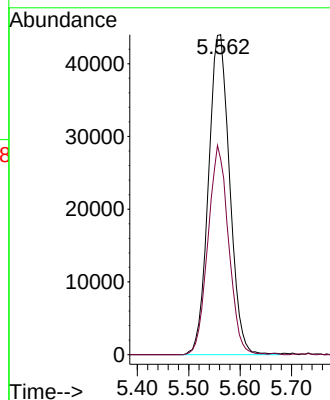
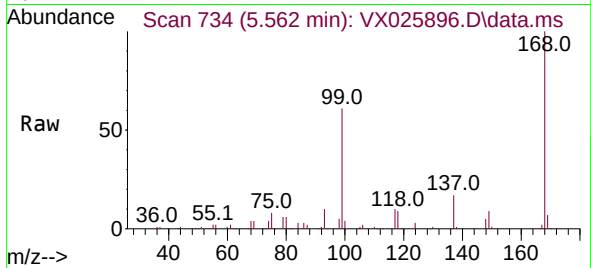




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

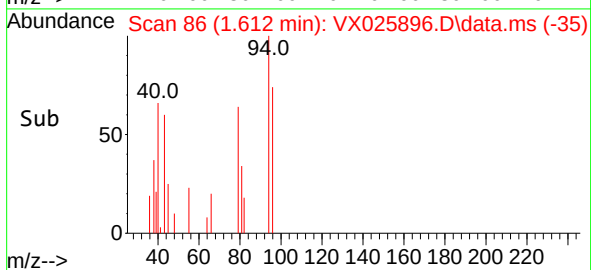
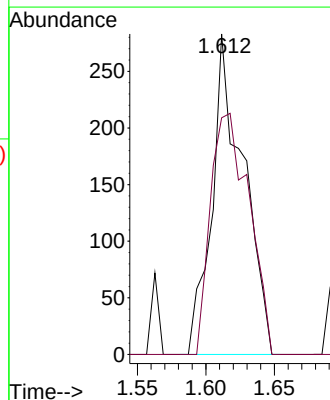
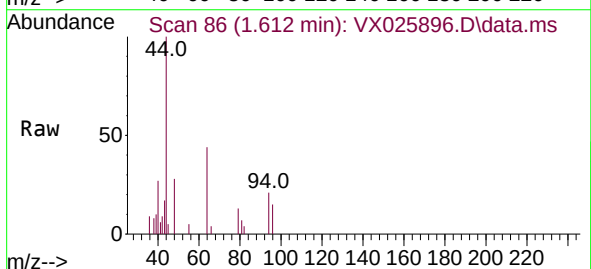
Instrument :
MSVOA_X
ClientSampleId :

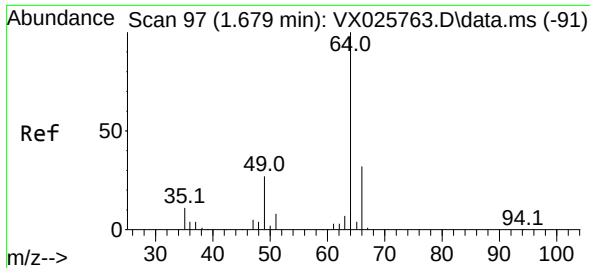
Tgt Ion:168 Resp: 125999
Ion Ratio Lower Upper
168 100
99 61.0 45.8 68.8



#5
Bromomethane
Concen: 0.406 ug/l
RT: 1.612 min Scan# 86
Delta R.T. 0.012 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

Tgt Ion: 94 Resp: 453
Ion Ratio Lower Upper
94 100
96 73.9 75.0 112.4#

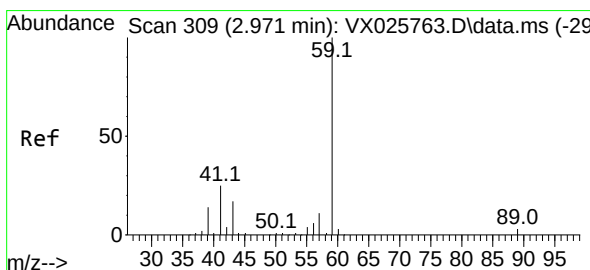
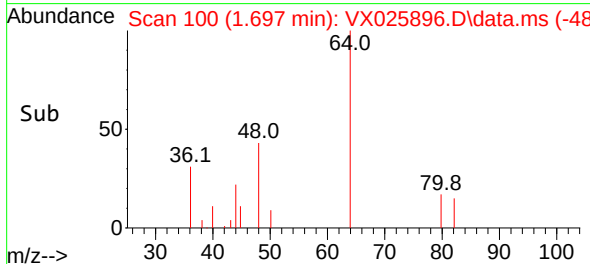
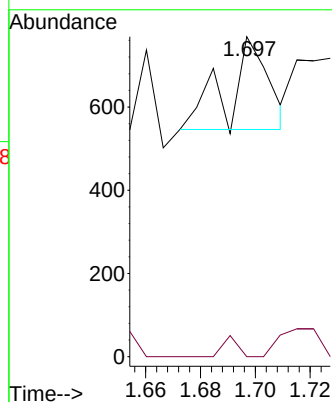
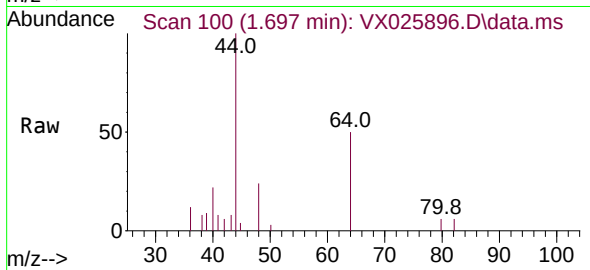




#6
Chloroethane
Concen: 0.201 ug/l
RT: 1.697 min Scan# 10
Delta R.T. 0.018 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

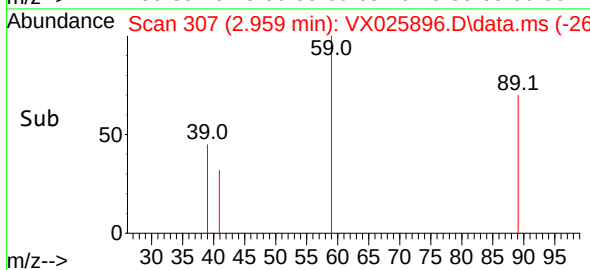
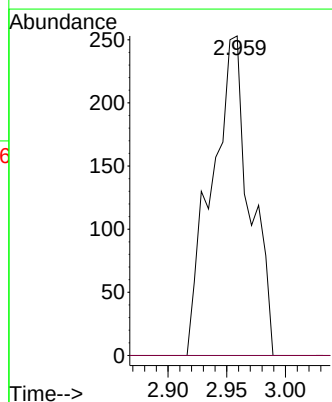
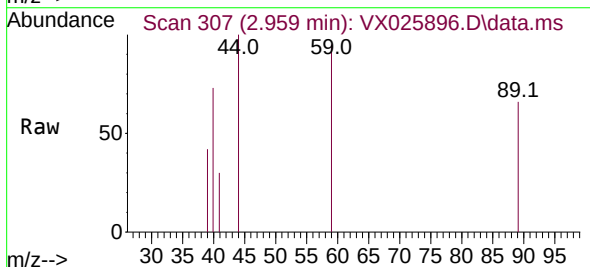
Instrument :
MSVOA_X
ClientSampleId :

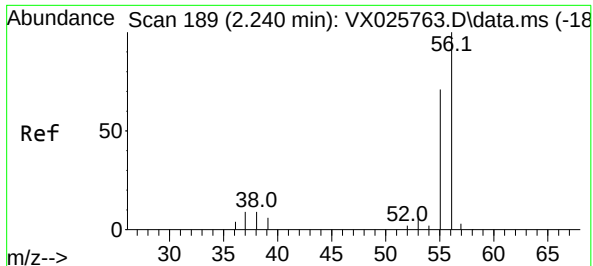
Tgt Ion: 64 Resp: 227
Ion Ratio Lower Upper
64 100
66 0.0 25.9 38.9#



#11
Tert butyl alcohol
Concen: 1.570 ug/l
RT: 2.959 min Scan# 307
Delta R.T. -0.012 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

Tgt Ion: 59 Resp: 571
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#13

Acrolein

Concen: 0.225 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

Instrument :

MSVOA_X

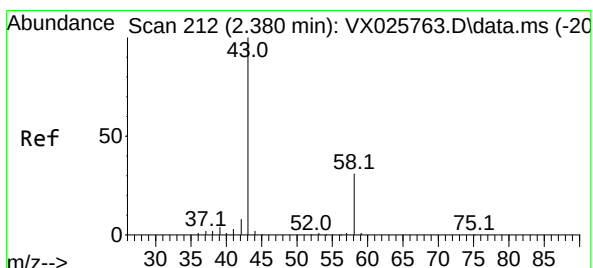
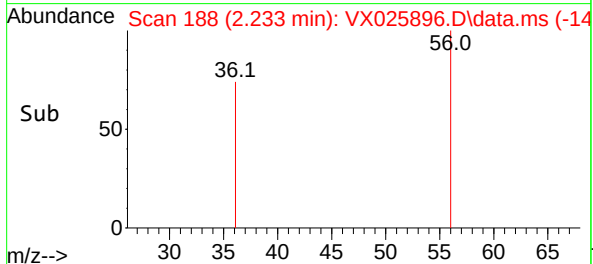
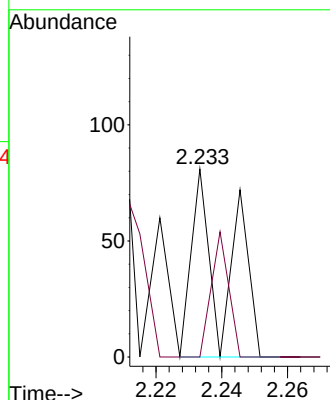
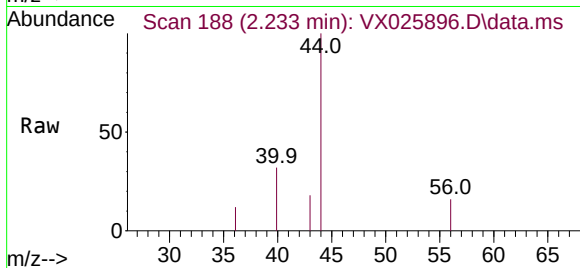
ClientSampleId :

Tgt Ion: 56 Resp: 56

Ion Ratio Lower Upper

56 100

55 35.7 57.4 86.2#



#16

Acetone

Concen: Below Cal

RT: 2.386 min Scan# 213

Delta R.T. 0.006 min

Lab File: VX025896.D

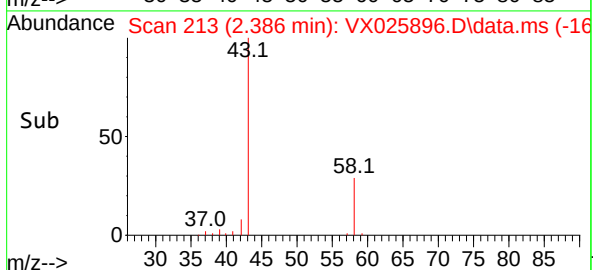
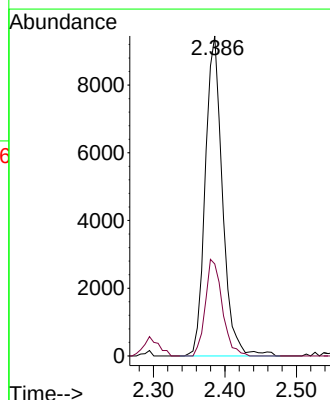
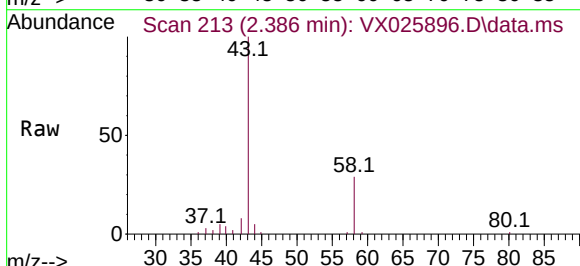
Acq: 17 Dec 2021 19:25

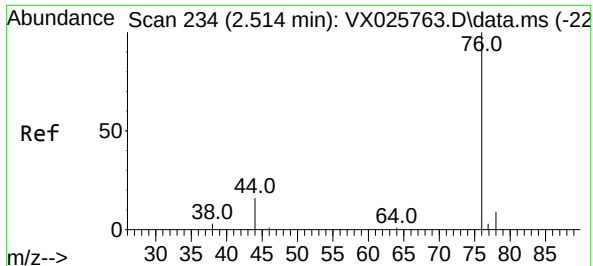
Tgt Ion: 43 Resp: 15787

Ion Ratio Lower Upper

43 100

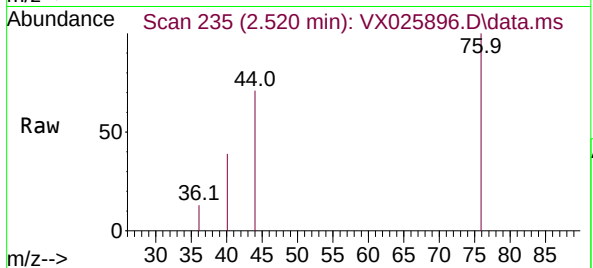
58 28.8 24.8 37.2



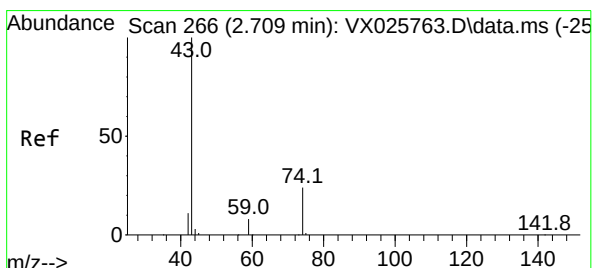
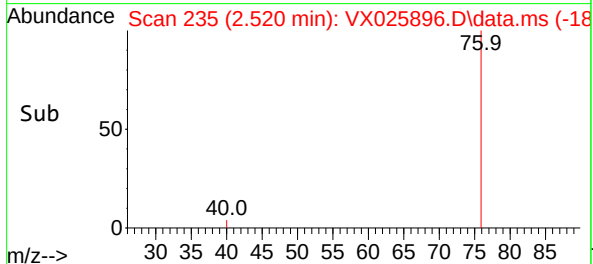
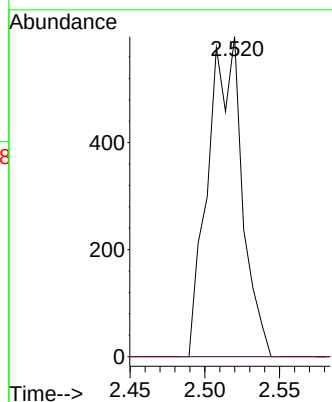


#17
Carbon Disulfide
Concen: 0.246 ug/l
RT: 2.520 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

Instrument :
MSVOA_X
ClientSampleId :

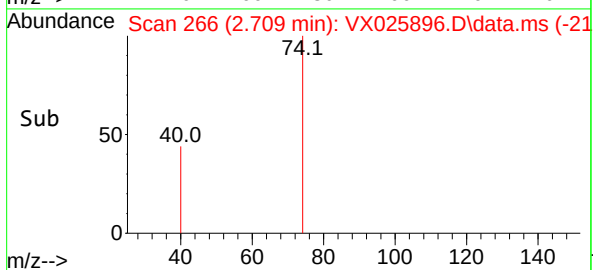
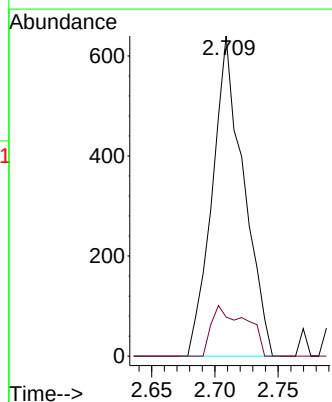
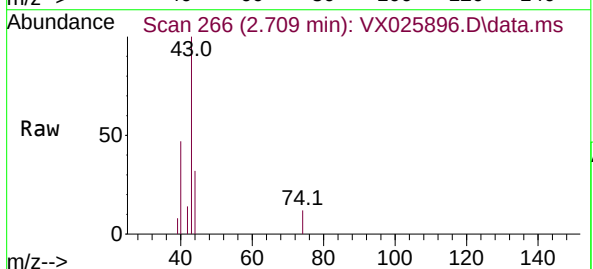


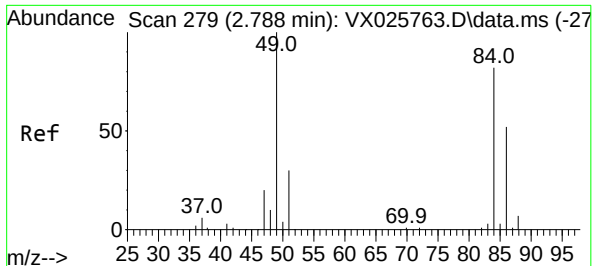
Tgt Ion: 76 Resp: 941
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: 0.399 ug/l
RT: 2.709 min Scan# 266
Delta R.T. -0.000 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

Tgt Ion: 43 Resp: 1102
Ion Ratio Lower Upper
43 100
74 17.3 19.1 28.7#





#20

Methylene Chloride

Concen: 2.968 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 84 Resp: 8131

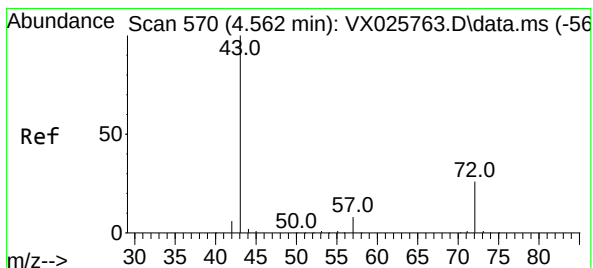
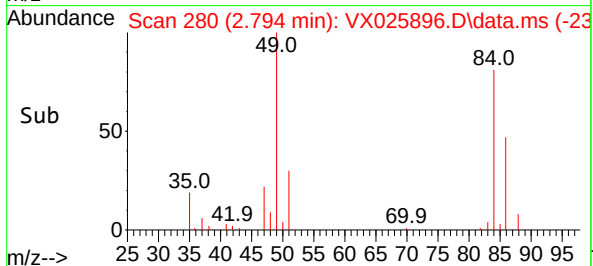
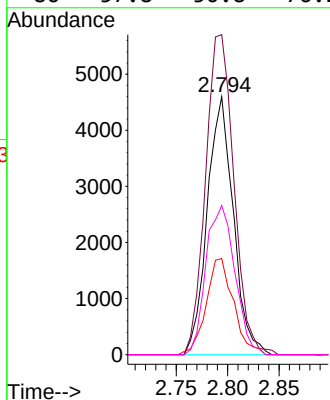
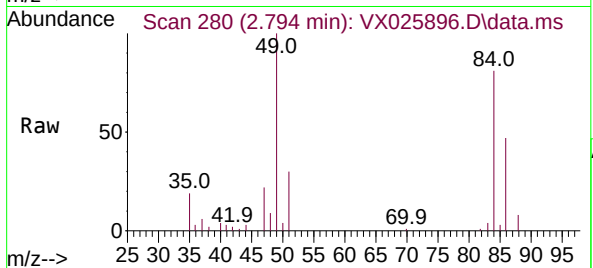
Ion Ratio Lower Upper

84 100

49 124.1 97.1 145.7

51 37.3 29.3 43.9

86 57.8 50.8 76.2



#25

2-Butanone

Concen: 2.679 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.006 min

Lab File: VX025896.D

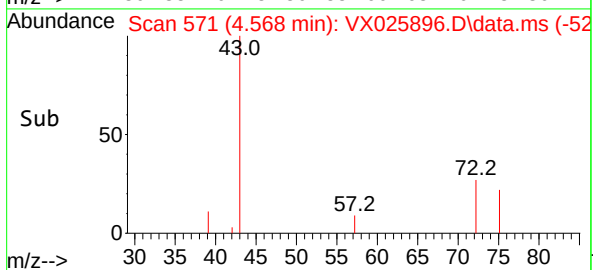
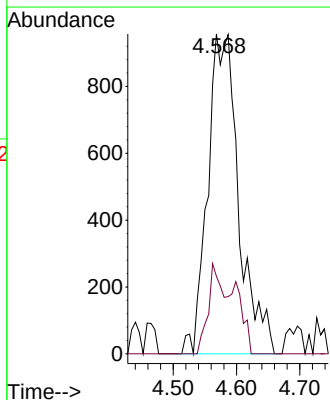
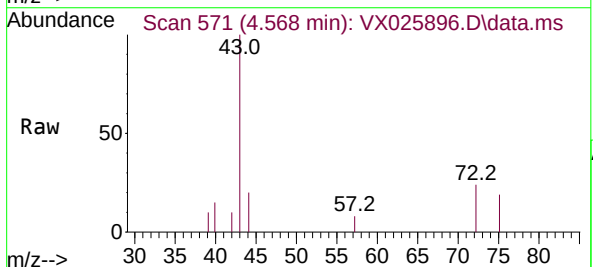
Acq: 17 Dec 2021 19:25

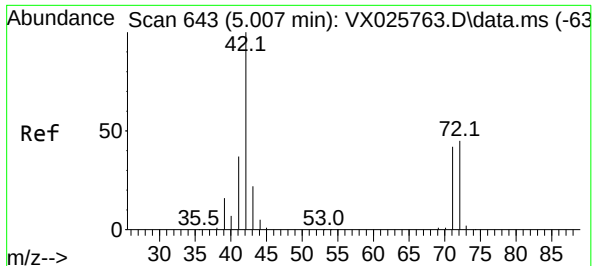
Tgt Ion: 43 Resp: 3267

Ion Ratio Lower Upper

43 100

72 24.2 21.0 31.4





#29

Tetrahydrofuran

Concen: 0.486 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.012 min

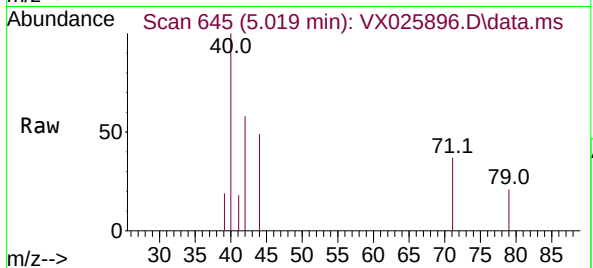
Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

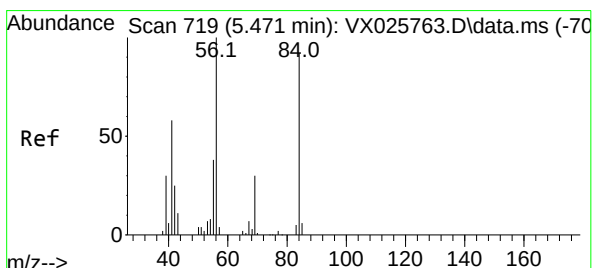
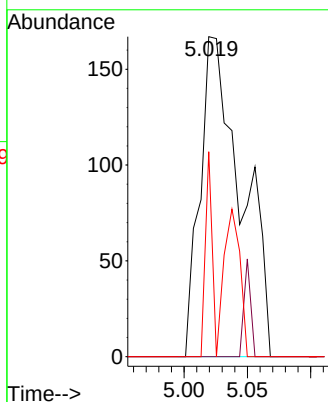
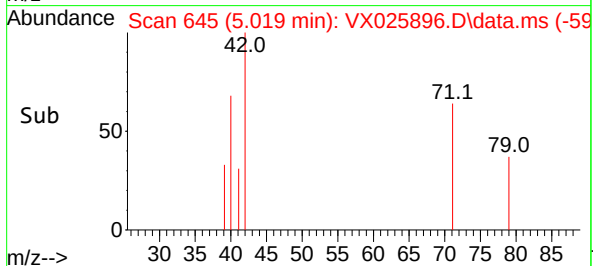
Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:	42	Resp:	377
Ion	Ratio	Lower	Upper
42	100		
72	0.0	37.0	55.6#
71	10.3	34.1	51.1#



#31

Cyclohexane

Concen: 1.383 ug/l

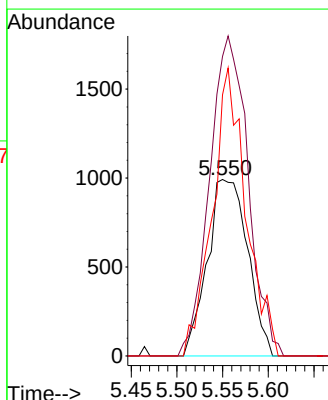
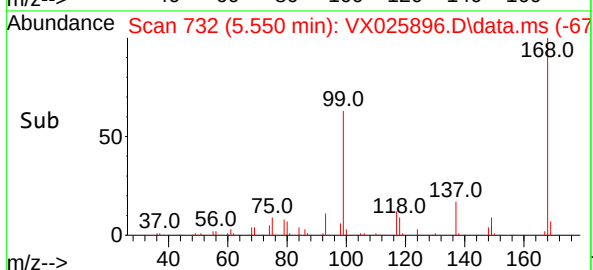
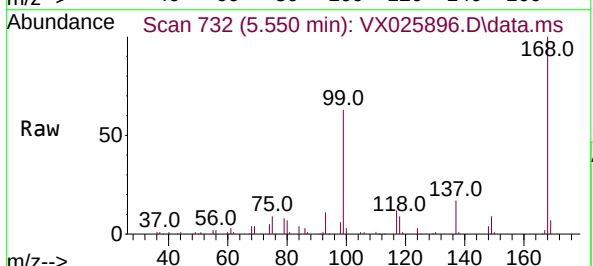
RT: 5.550 min Scan# 732

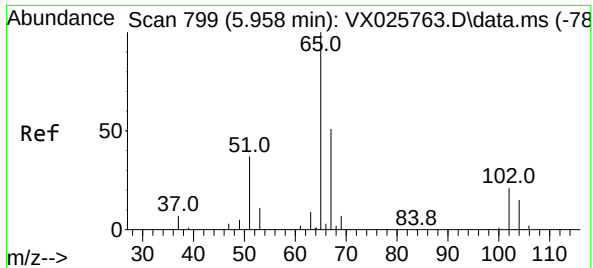
Delta R.T. 0.079 min

Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

Tgt Ion:	56	Resp:	3050
Ion	Ratio	Lower	Upper
56	100		
69	169.8	23.9	35.9#
84	148.0	73.2	109.8#





#33

1,2-Dichloroethane-d4

Concen: 53.419 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

Instrument :

MSVOA_X

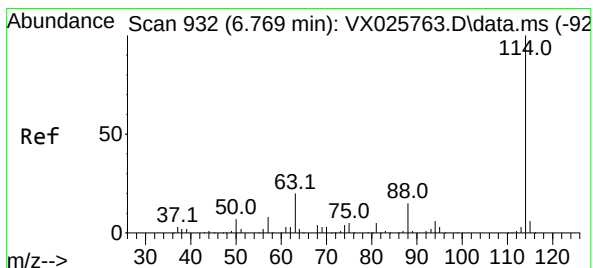
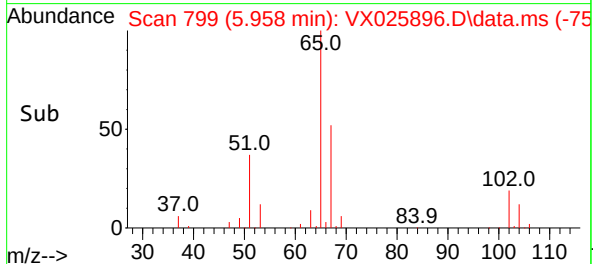
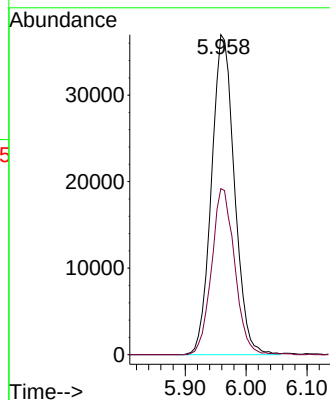
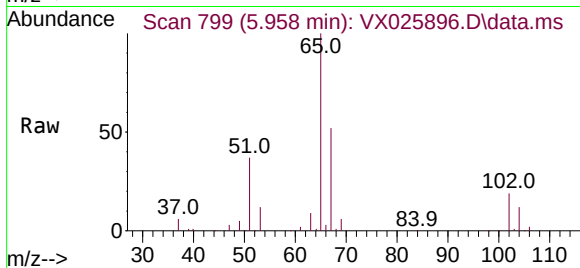
ClientSampleId :

Tgt Ion: 65 Resp: 96843

Ion Ratio Lower Upper

65 100

67 52.3 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

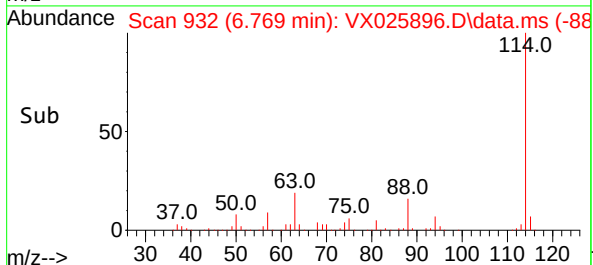
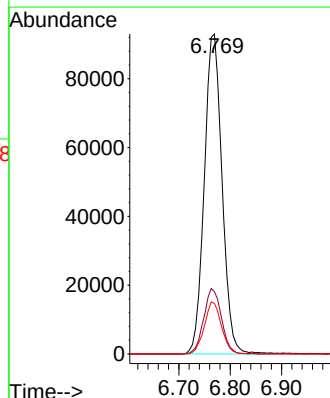
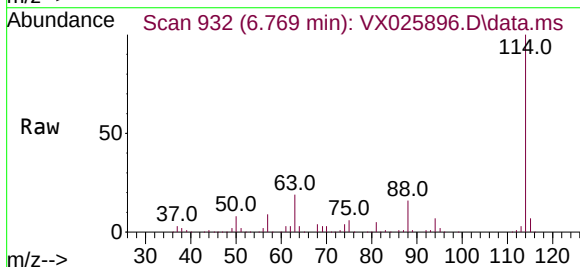
Tgt Ion: 114 Resp: 223256

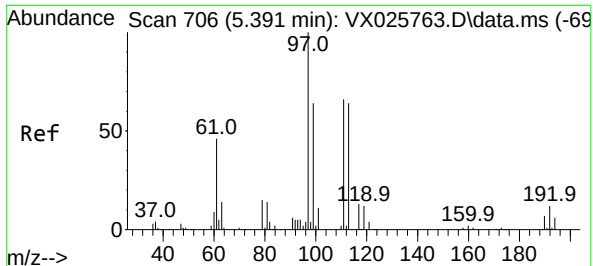
Ion Ratio Lower Upper

114 100

63 19.5 0.0 40.0

88 15.8 0.0 30.6





#35

Dibromofluoromethane

Concen: 50.062 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.000 min

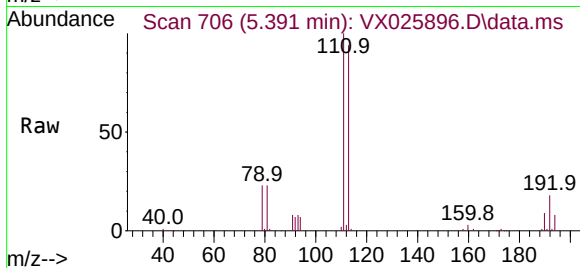
Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

Instrument :

MSVOA_X

ClientSampleId :



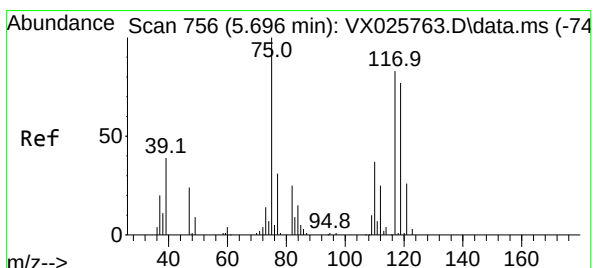
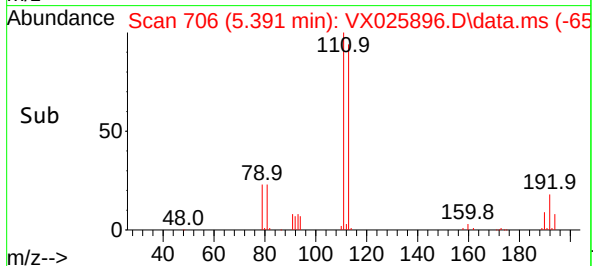
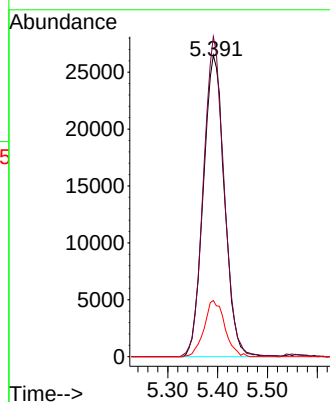
Tgt Ion:113 Resp: 77947

Ion Ratio Lower Upper

113 100

111 103.0 81.8 122.8

192 18.2 15.0 22.4



#36

1,1-Dichloropropene

Concen: 5.102 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

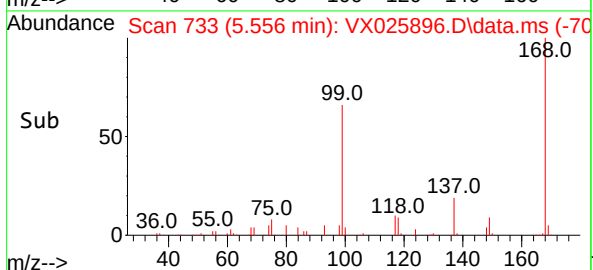
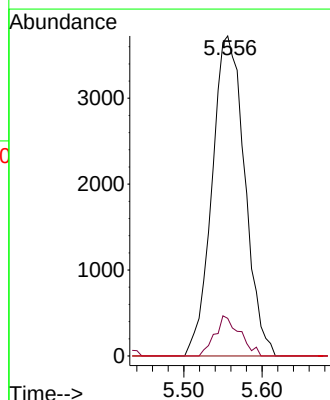
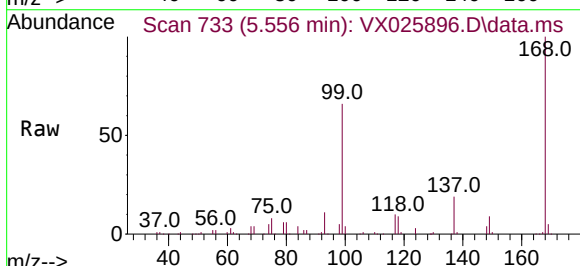
Tgt Ion: 75 Resp: 10772

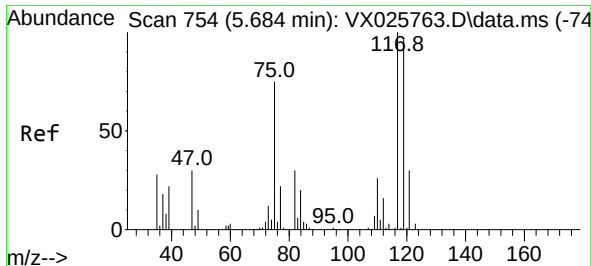
Ion Ratio Lower Upper

75 100

110 9.6 18.2 54.6#

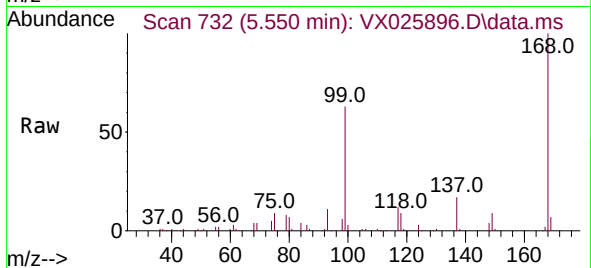
77 0.0 24.7 37.1#



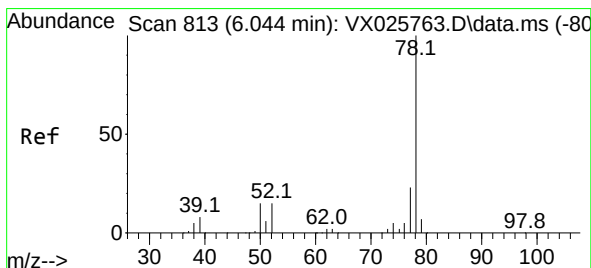
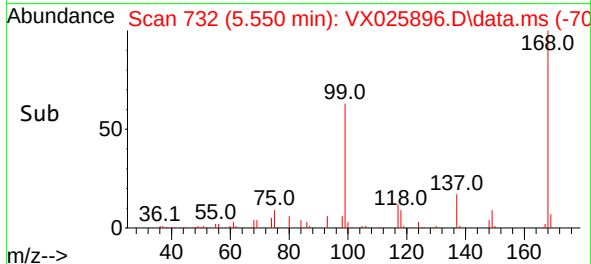
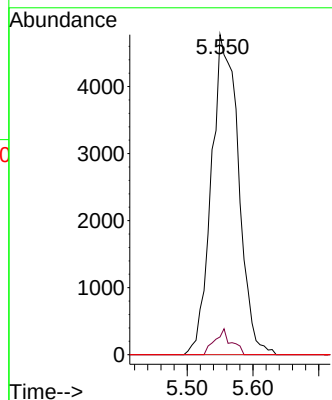


#38
Carbon Tetrachloride
Concen: 5.583 ug/l
RT: 5.550 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

Instrument :
MSVOA_X
ClientSampleId :

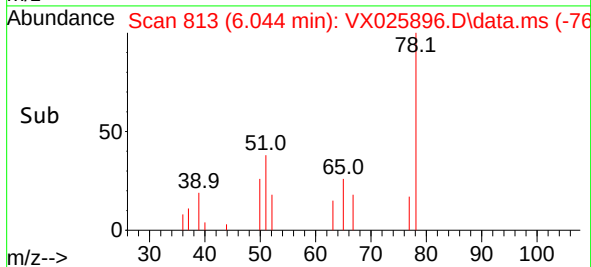
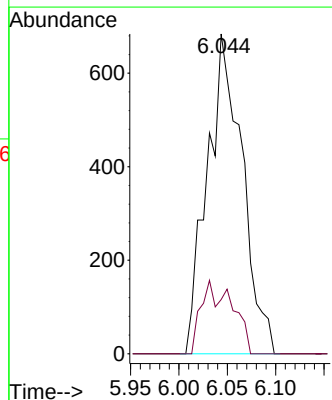
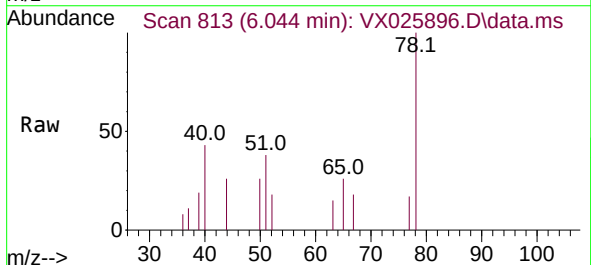


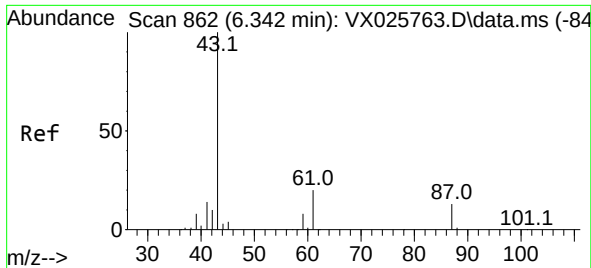
Tgt Ion:117 Resp: 13717
Ion Ratio Lower Upper
117 100
119 5.6 77.2 115.8#
121 0.0 23.8 35.8#



#40
Benzene
Concen: 0.273 ug/l
RT: 6.044 min Scan# 813
Delta R.T. -0.000 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

Tgt Ion: 78 Resp: 1718
Ion Ratio Lower Upper
78 100
77 17.0 18.6 27.8#

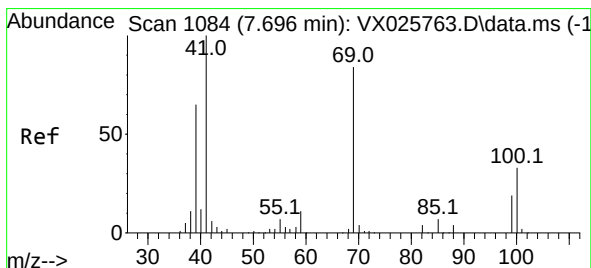
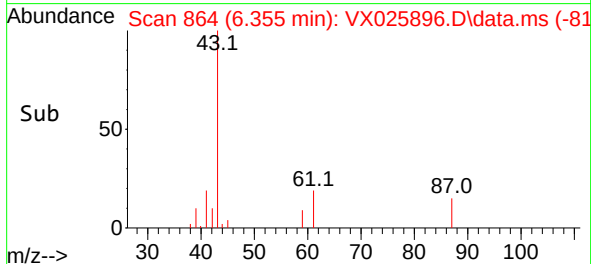
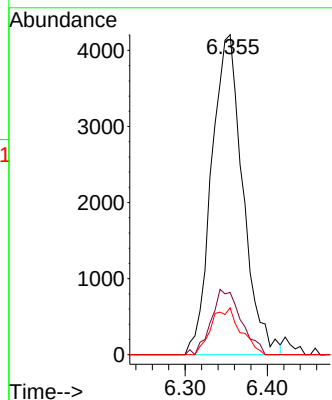
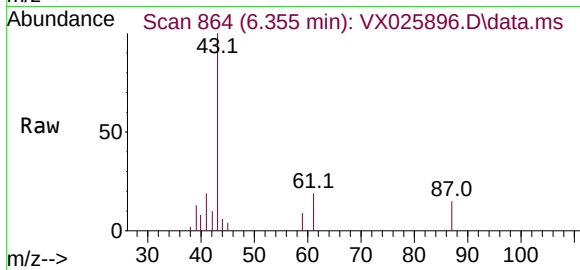




#43
Isopropyl Acetate
Concen: 2.939 ug/l
RT: 6.355 min Scan# 864
Delta R.T. 0.012 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

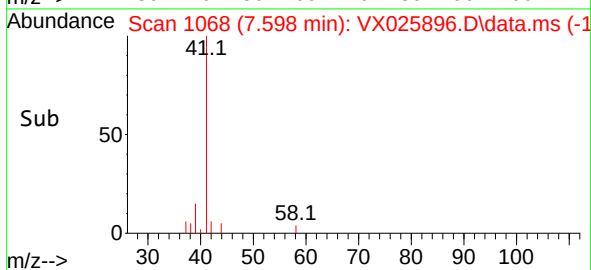
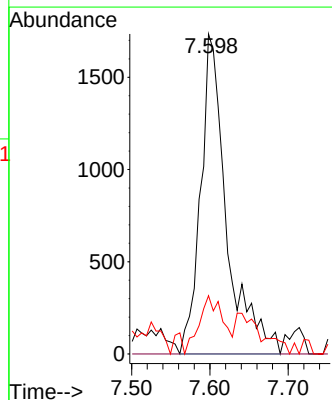
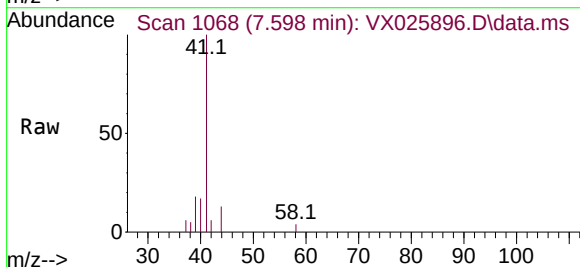
Instrument :
MSVOA_X
ClientSampleId :

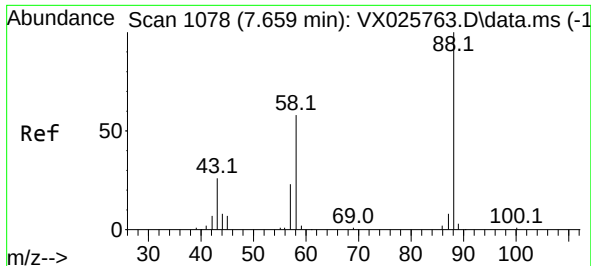
Tgt Ion: 43 Resp: 11107
Ion Ratio Lower Upper
43 100
61 19.5 15.7 23.5
87 13.8 11.2 16.8



#48
Methyl methacrylate
Concen: 2.244 ug/l
RT: 7.598 min Scan# 1068
Delta R.T. -0.098 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

Tgt Ion: 41 Resp: 3994
Ion Ratio Lower Upper
41 100
69 0.0 67.3 100.9#
39 0.0 50.2 75.2#





#49

1,4-Dioxane

Concen: 1.802 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.140 min

Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

Instrument :

MSVOA_X

ClientSampleId :

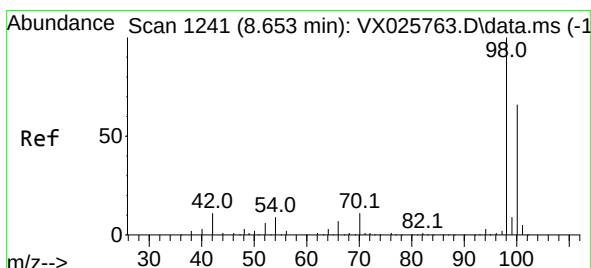
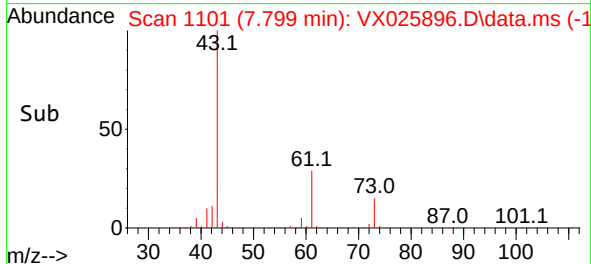
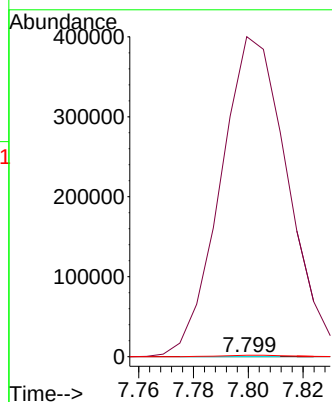
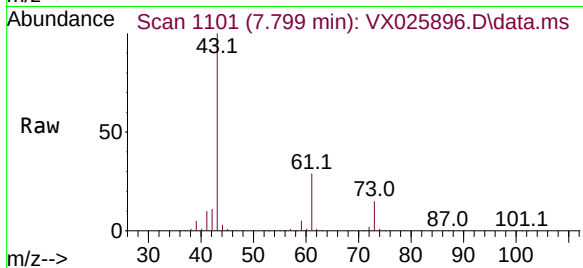
Tgt Ion: 88 Resp: 70

Ion Ratio Lower Upper

88 100

43 992738.6 25.3 37.9#

58 4657.1 51.8 77.6#



#50

Toluene-d8

Concen: 51.884 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX025896.D

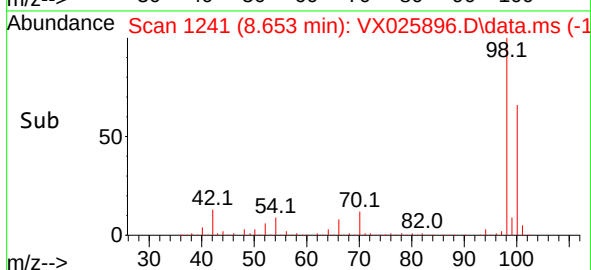
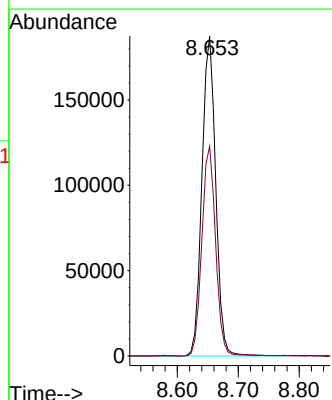
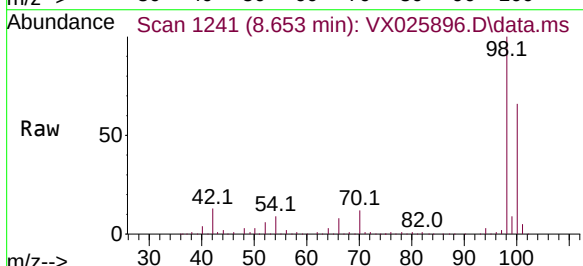
Acq: 17 Dec 2021 19:25

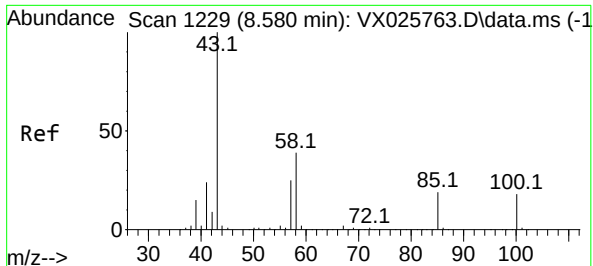
Tgt Ion: 98 Resp: 294340

Ion Ratio Lower Upper

98 100

100 65.6 52.6 78.8





#51

4-Methyl-2-Pentanone

Concen: 16.617 ug/l

RT: 8.549 min Scan# 11

Delta R.T. -0.031 min

Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

Instrument :

MSVOA_X

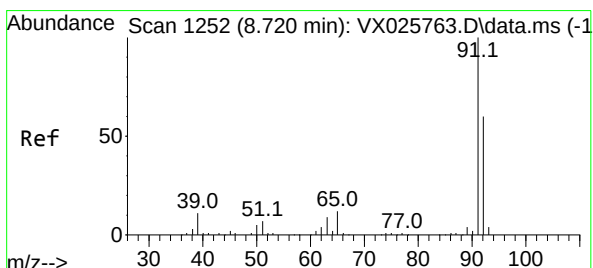
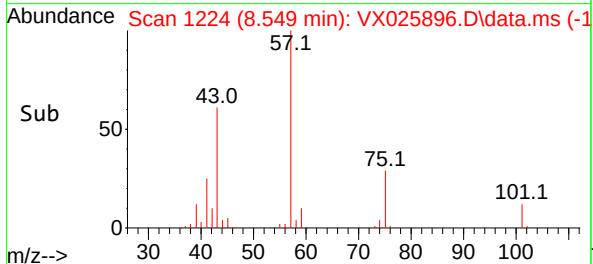
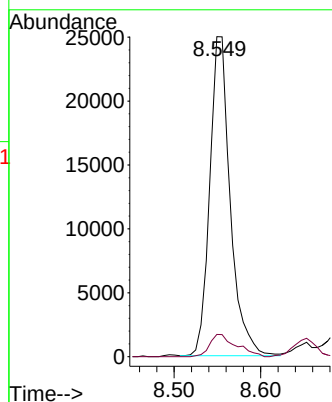
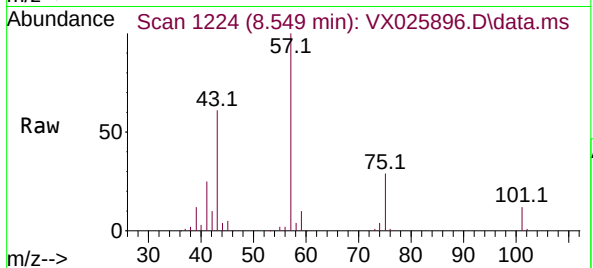
ClientSampleId :

Tgt Ion: 43 Resp: 41113

Ion Ratio Lower Upper

43 100

58 9.0 30.8 46.2#



#52

Toluene

Concen: 0.204 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.000 min

Lab File: VX025896.D

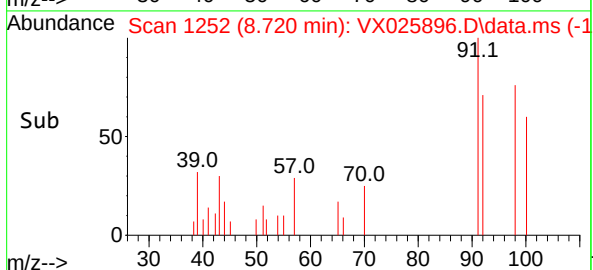
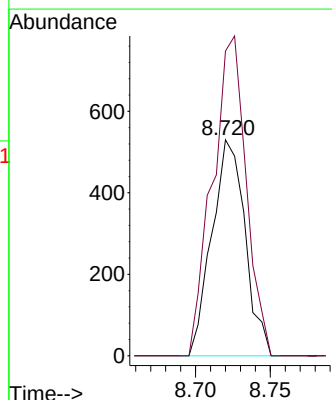
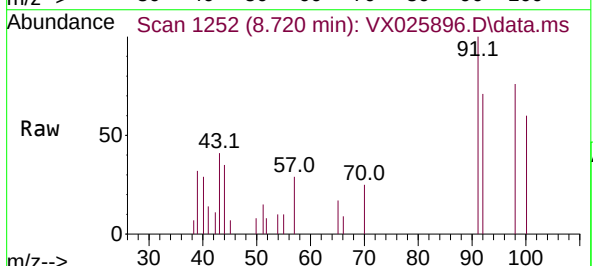
Acq: 17 Dec 2021 19:25

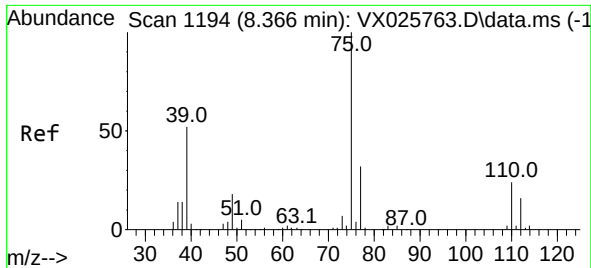
Tgt Ion: 92 Resp: 819

Ion Ratio Lower Upper

92 100

91 150.3 136.0 204.0

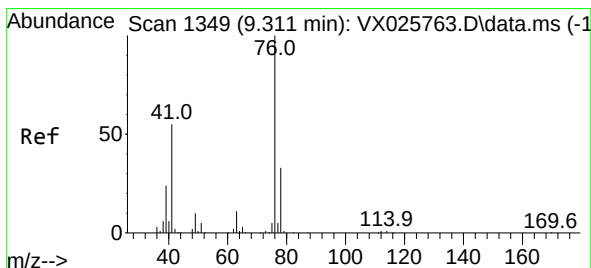
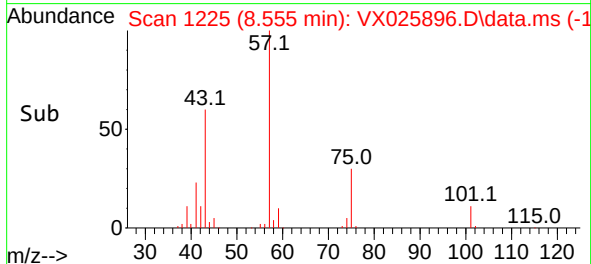
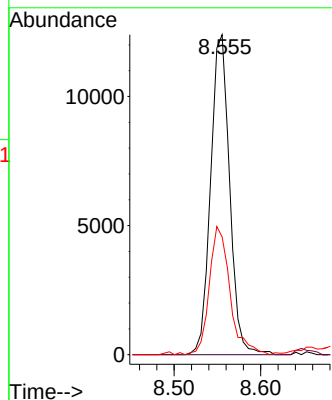
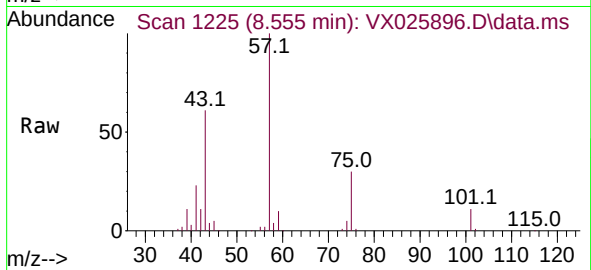




#54
 cis-1,3-Dichloropropene
 Concen: 7.430 ug/l
 RT: 8.555 min Scan# 1194
 Delta R.T. 0.189 min
 Lab File: VX025896.D
 Acq: 17 Dec 2021 19:25

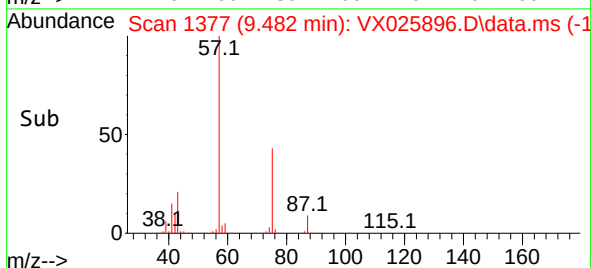
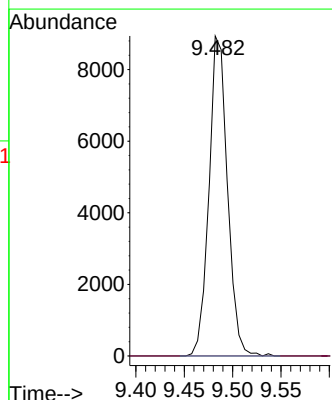
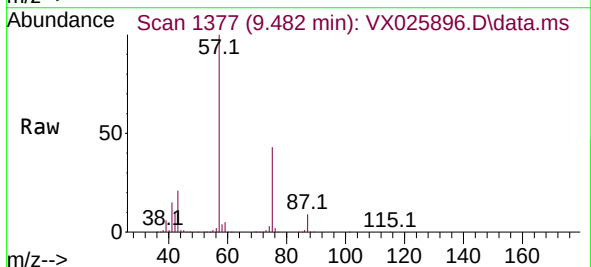
Instrument :
 MSVOA_X
 ClientSampleId :

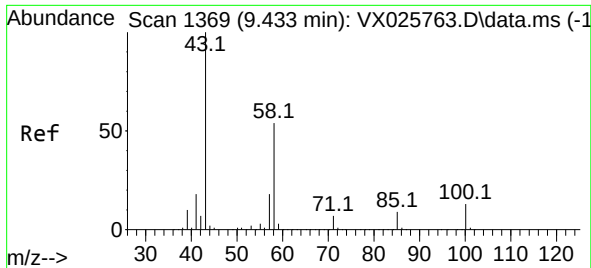
Tgt Ion: 75 Resp: 18875
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.3 37.9#
 39 36.4 41.4 62.0#



#57
 1,3-Dichloropropane
 Concen: 4.225 ug/l
 RT: 9.482 min Scan# 1377
 Delta R.T. 0.171 min
 Lab File: VX025896.D
 Acq: 17 Dec 2021 19:25

Tgt Ion: 76 Resp: 11926
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#





#59

2-Hexanone

Concen: 88.576 ug/l

RT: 9.488 min Scan# 1

Delta R.T. 0.055 min

Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

Instrument :

MSVOA_X

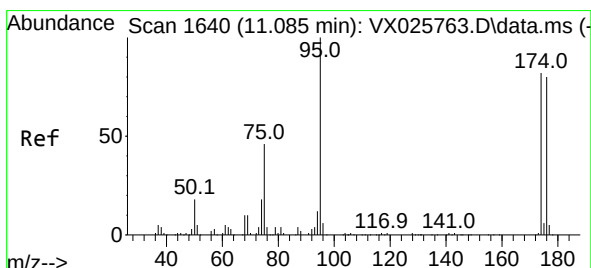
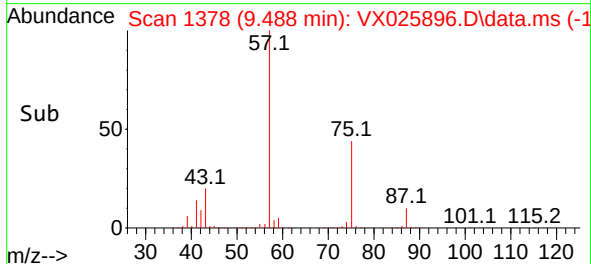
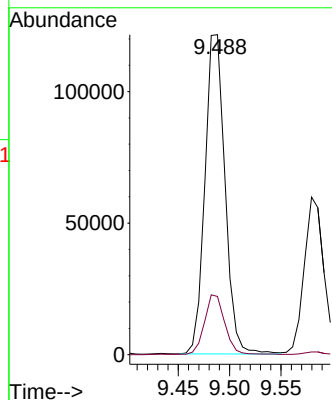
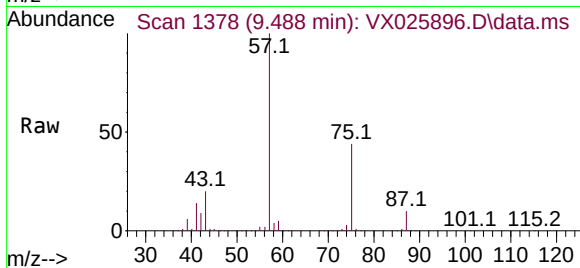
ClientSampleId :

Tgt Ion: 43 Resp: 166045

Ion Ratio Lower Upper

43 100

58 18.7 26.9 80.6#



#62

4-Bromofluorobenzene

Concen: 47.017 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. -0.000 min

Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

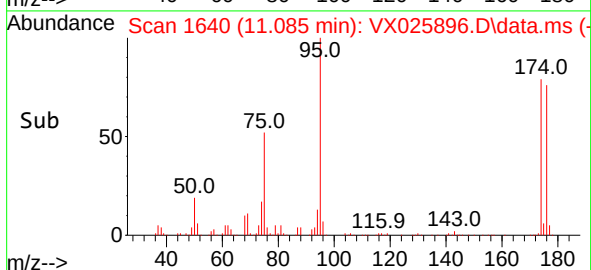
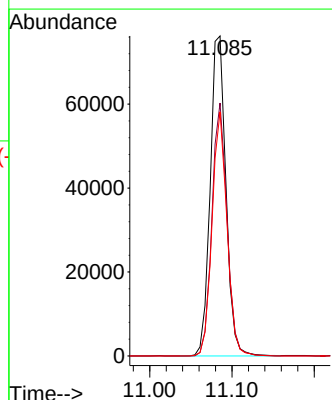
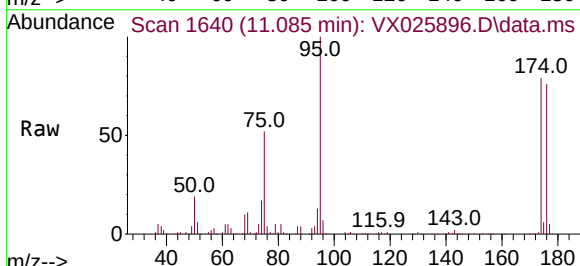
Tgt Ion: 95 Resp: 101321

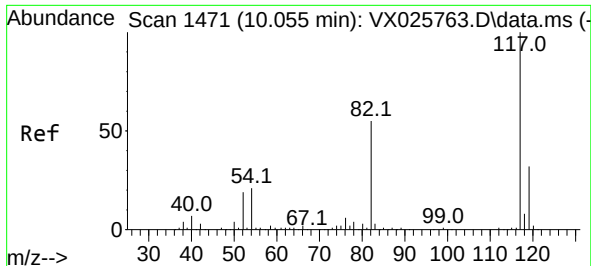
Ion Ratio Lower Upper

95 100

174 75.8 0.0 157.4

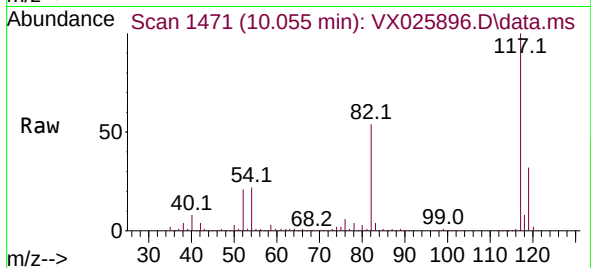
176 72.4 0.0 154.6



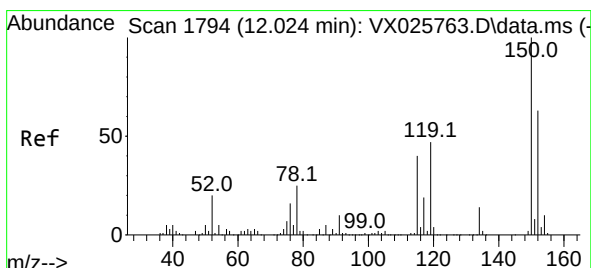
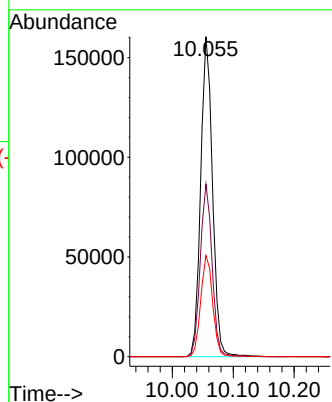
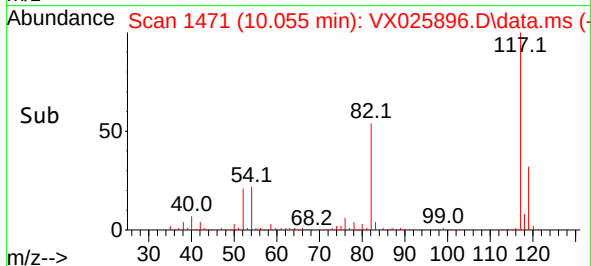


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

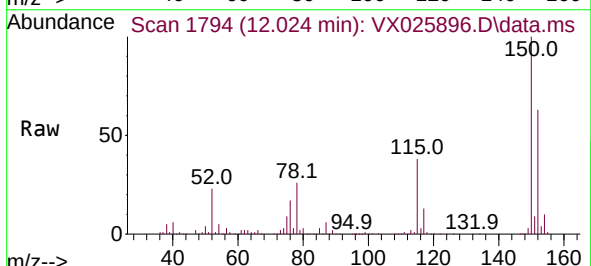
Instrument :
MSVOA_X
ClientSampleId :



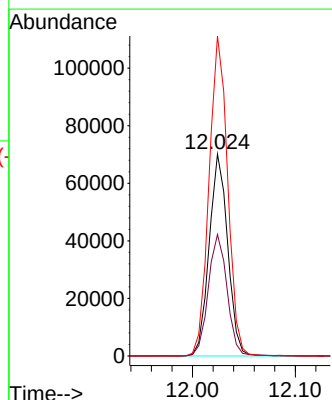
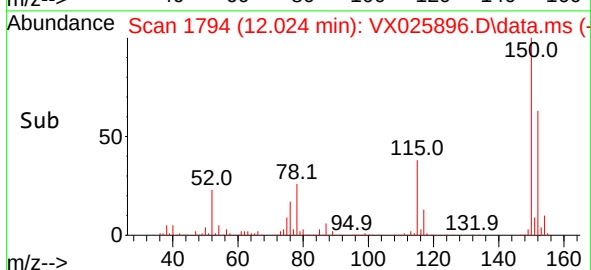
Tgt Ion:117 Resp: 216295
Ion Ratio Lower Upper
117 100
82 53.9 43.8 65.6
119 31.6 25.2 37.8

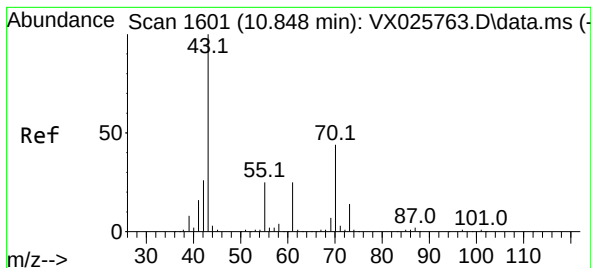


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.024 min Scan# 1794
Delta R.T. -0.000 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25



Tgt Ion:152 Resp: 87727
Ion Ratio Lower Upper
152 100
115 61.5 41.3 123.9
150 159.1 0.0 351.8





#74

N-amy1 acetate

Concen: 0.218 ug/l

RT: 10.781 min Scan# 1

Delta R.T. -0.067 min

Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion: 43 Resp: 557

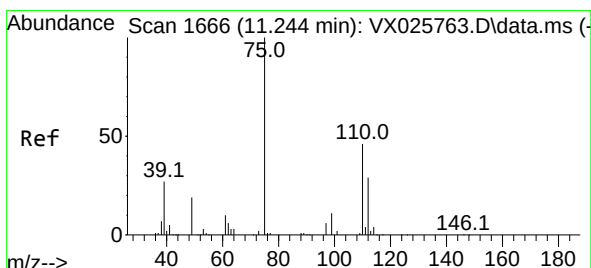
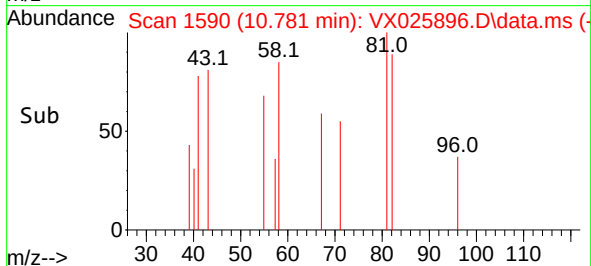
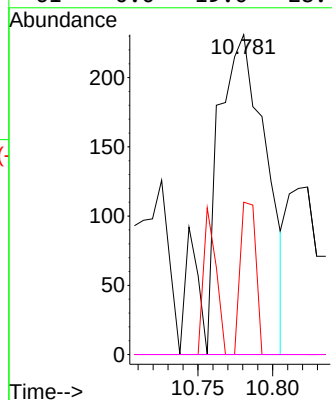
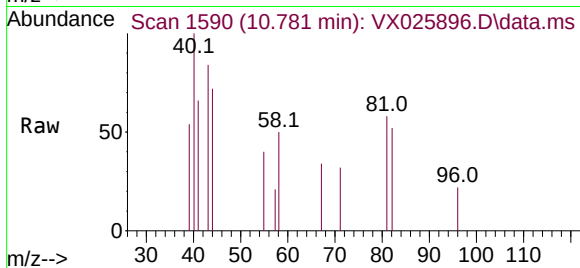
Ion Ratio Lower Upper

43 100

70 0.0 34.1 51.1#

55 14.4 19.2 28.8#

61 0.0 19.0 28.4#



#76

1,2,3-Trichloropropane

Concen: 26.552 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.165 min

Lab File: VX025896.D

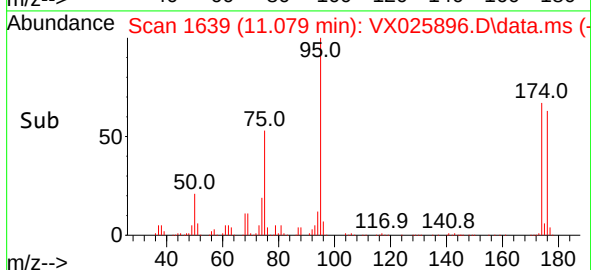
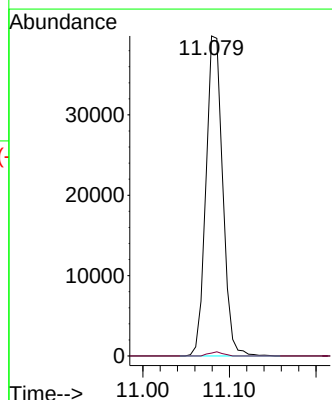
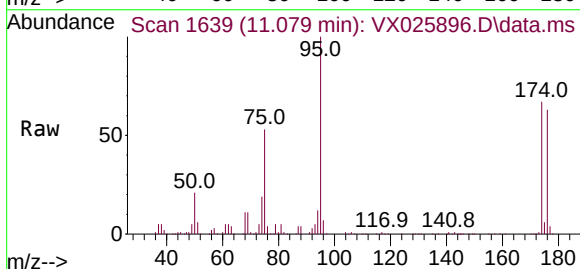
Acq: 17 Dec 2021 19:25

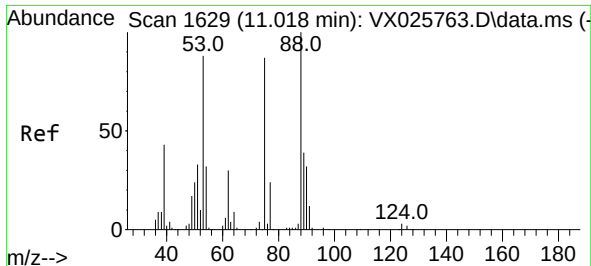
Tgt Ion: 75 Resp: 53369

Ion Ratio Lower Upper

75 100

77 1.1 19.0 57.0#

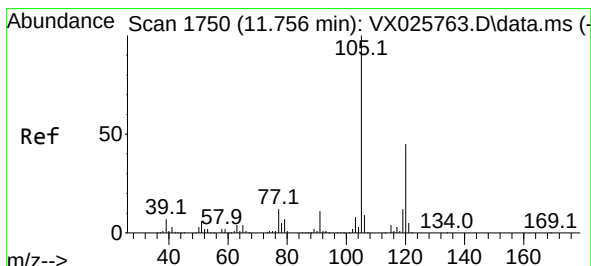
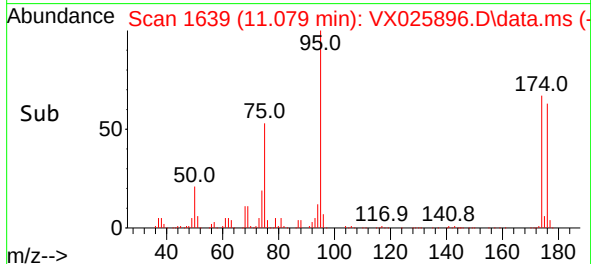
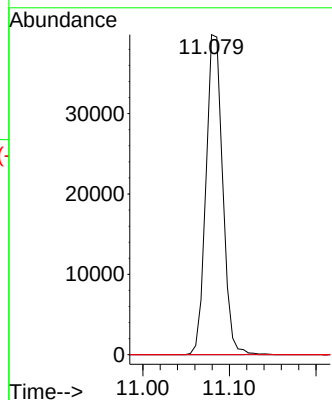
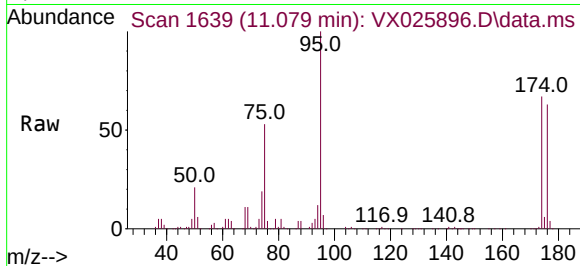




#81
trans-1,4-Dichloro-2-butene
Concen: 82.318 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

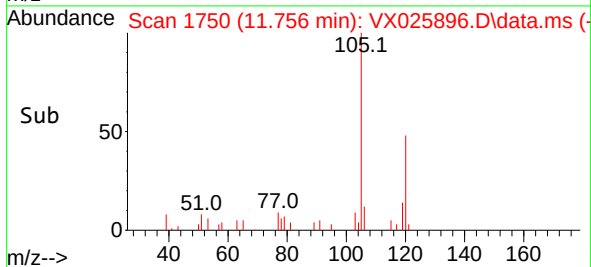
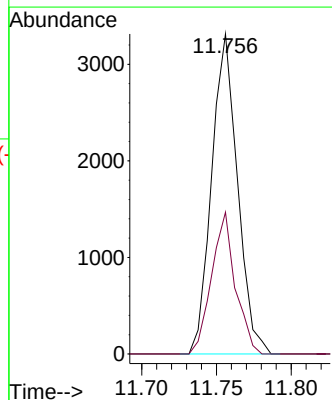
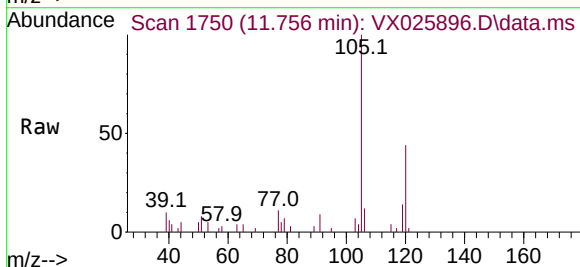
Instrument :
MSVOA_X
ClientSampleId :

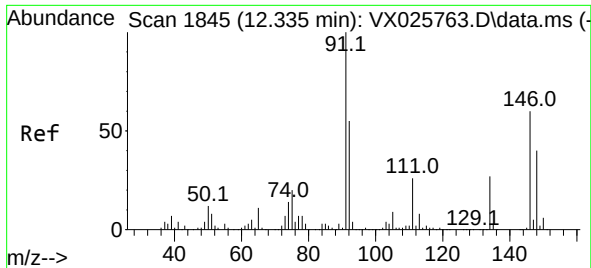
Tgt Ion: 75 Resp: 53369
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 38.3 57.5#



#84
1,2,4-Trimethylbenzene
Concen: 0.755 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. -0.000 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

Tgt Ion: 105 Resp: 3982
Ion Ratio Lower Upper
105 100
120 40.7 22.9 68.7

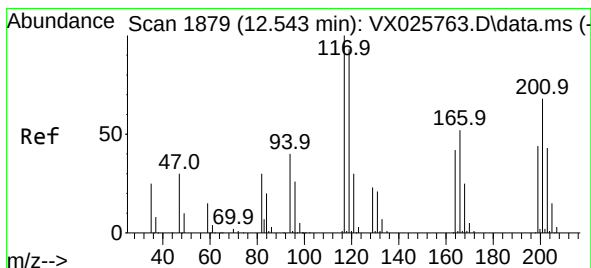
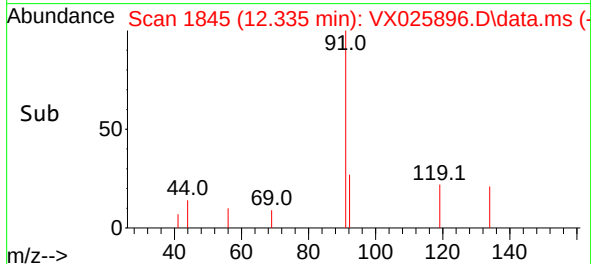
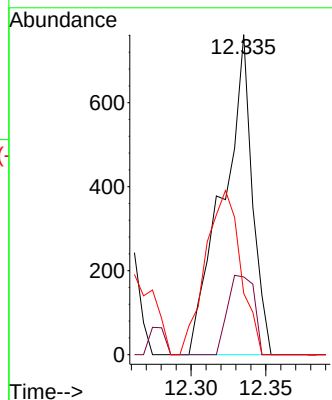
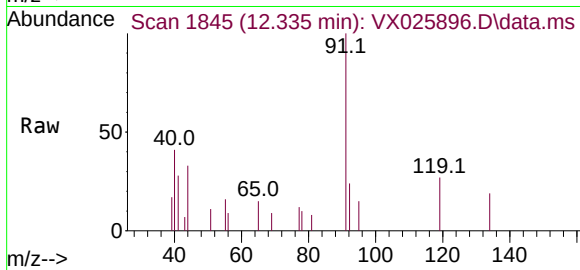




#89
n-Butylbenzene
Concen: 0.238 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. -0.000 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

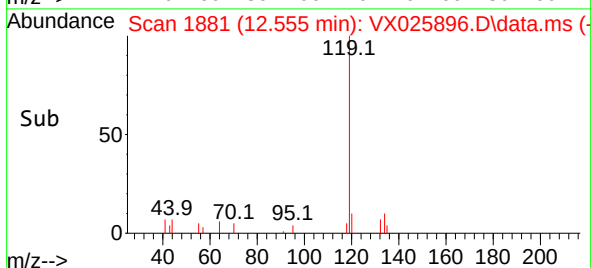
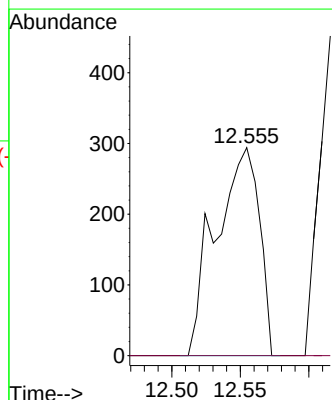
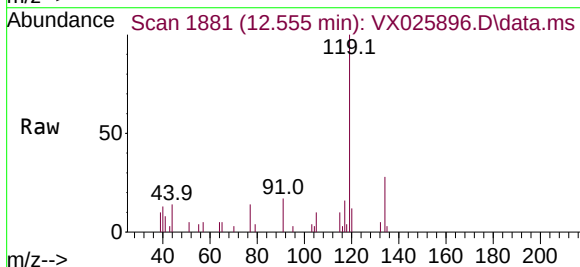
Instrument :
MSVOA_X
ClientSampleId :

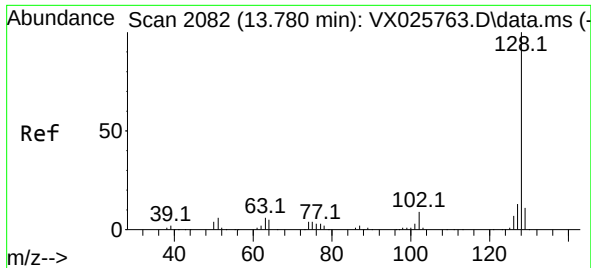
Tgt Ion: 91 Resp: 1039
Ion Ratio Lower Upper
91 100
92 22.2 27.3 81.8#
134 61.6 13.5 40.4#



#90
Hexachloroethane
Concen: 0.633 ug/l
RT: 12.555 min Scan# 1881
Delta R.T. 0.012 min
Lab File: VX025896.D
Acq: 17 Dec 2021 19:25

Tgt Ion: 117 Resp: 650
Ion Ratio Lower Upper
117 100
201 0.0 35.4 106.3#





#95

Naphthalene

Concen: 3.008 ug/l

RT: 13.780 min Scan# 20

Delta R.T. 0.000 min

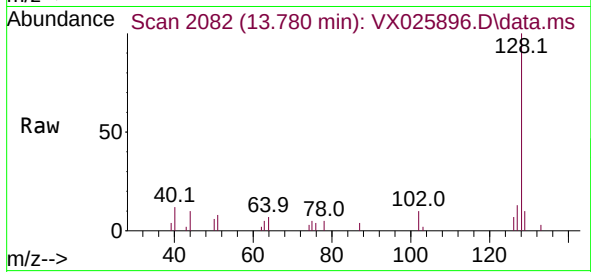
Lab File: VX025896.D

Acq: 17 Dec 2021 19:25

Instrument :

MSVOA_X

ClientSampleId :



Tgt Ion:128 Resp: 3757

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

129 13.5 8.8 13.2#

