

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011922\
 Data File : VX026512.D
 Acq On : 19 Jan 2022 12:28
 Operator : JC/MD
 Sample : N1187-01 50X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 20904

Quant Time: Jan 20 05:04:13 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011122W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 11 14:45:13 2022
 Response via : Initial Calibration

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

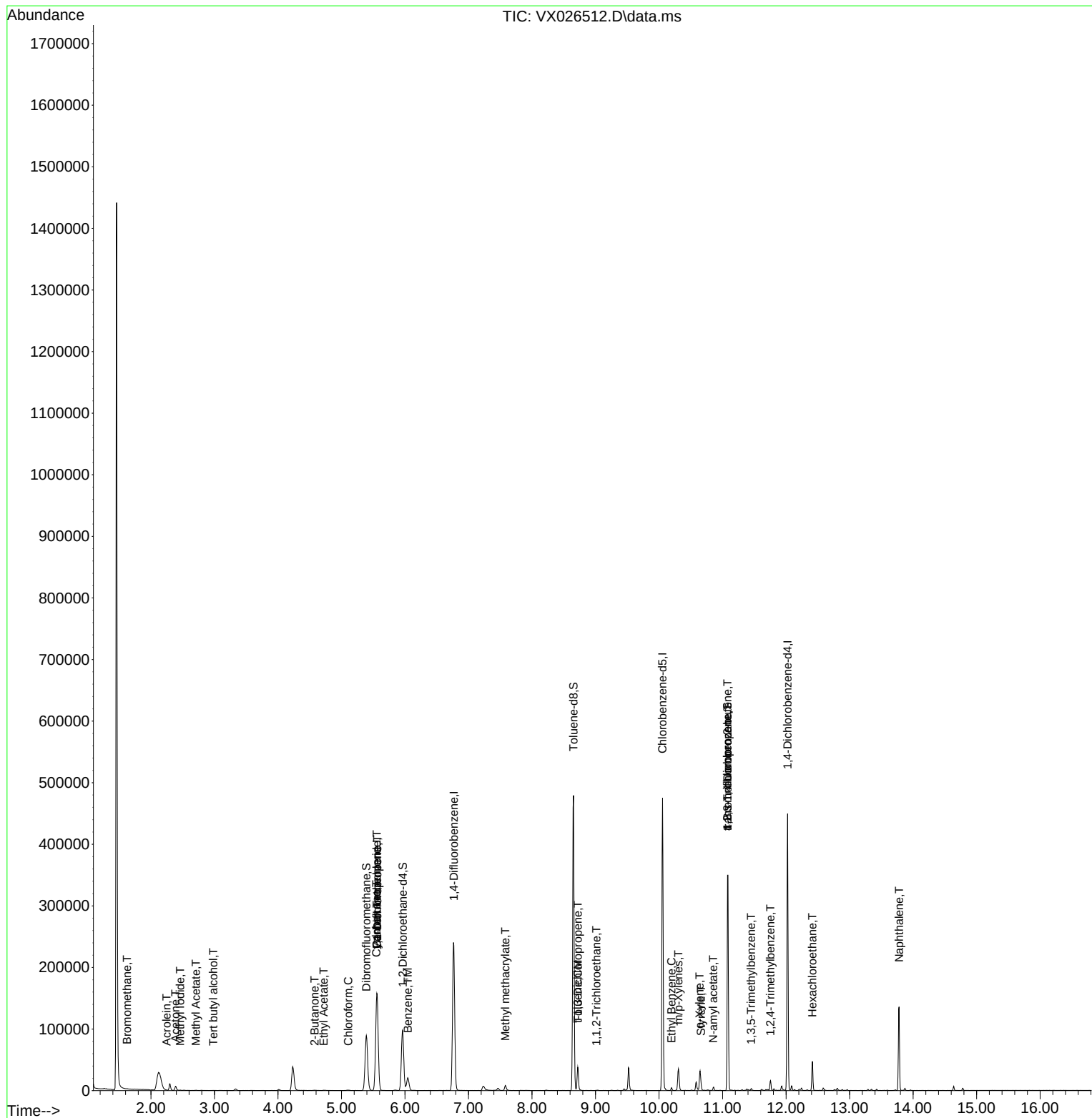
Internal Standards						
1) Pentafluorobenzene	5.556	168	146631	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	245592	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	209102	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	87879	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	97073	47.391	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	94.780%		
35) Dibromofluoromethane	5.391	113	77741	49.018	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.040%		
50) Toluene-d8	8.653	98	281155	49.195	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	98.400%		
62) 4-Bromofluorobenzene	11.079	95	99043	48.784	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	97.560%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.624	94	162	0.211	ug/l	84
10) Methyl Iodide	2.459	142	566	4.744	ug/l #	83
11) Tert butyl alcohol	2.983	59	242	0.849	ug/l #	75
13) Acrolein	2.245	56	102	0.337	ug/l #	71
16) Acetone	2.386	43	7893	7.556	ug/l	95
18) Methyl Acetate	2.709	43	556	0.268	ug/l #	72
25) 2-Butanone	4.574	43	1113	0.819	ug/l	97
30) Chloroform	5.105	83	1048	0.326	ug/l	95
31) Cyclohexane	5.550	56	3111	1.030	ug/l #	1
36) 1,1-Dichloropropene	5.562	75	11758	4.696	ug/l #	51
37) Ethyl Acetate	4.721	43	1287	0.508	ug/l #	69
38) Carbon Tetrachloride	5.556	117	15184	5.896	ug/l #	17
40) Benzene	6.043	78	24212	3.499	ug/l	97
48) Methyl methacrylate	7.580	41	2610	1.287	ug/l #	44
52) Toluene	8.720	92	14245	3.357	ug/l	99
53) t-1,3-Dichloropropene	8.720	75	97	1.914	ug/l #	1
55) 1,1,2-Trichloroethane	9.012	97	339	0.205	ug/l #	15
67) Ethyl Benzene	10.195	91	2694	0.337	ug/l	94
68) m/p-Xylenes	10.305	106	6258	2.090	ug/l	96
69) o-Xylene	10.640	106	5894	2.040	ug/l	100
70) Styrene	10.658	104	4979	1.056	ug/l	92
74) N-amyl acetate	10.854	43	745	0.268	ug/l #	6
76) 1,2,3-Trichloropropane	11.079	75	49950	25.815	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.451	105	1491	0.251	ug/l	94
81) trans-1,4-Dichloro-2-b...	11.079	75	49950	78.306	ug/l #	3
84) 1,2,4-Trimethylbenzene	11.756	105	7149	1.204	ug/l	90
90) Hexachloroethane	12.414	117	1783	3.876	ug/l #	14
95) Naphthalene	13.780	128	83676	13.386	ug/l	100

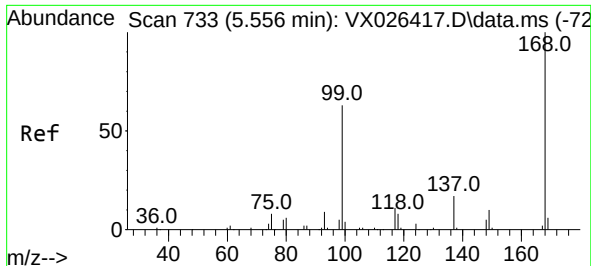
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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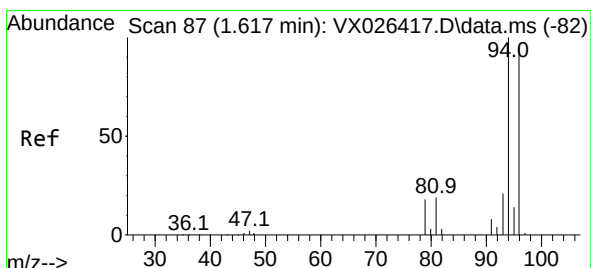
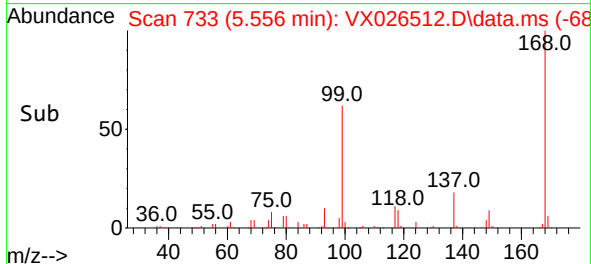
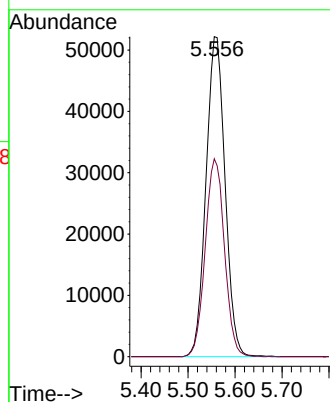
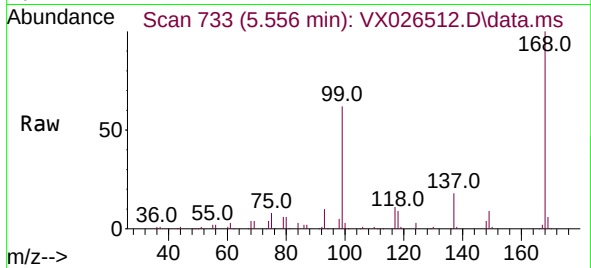




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

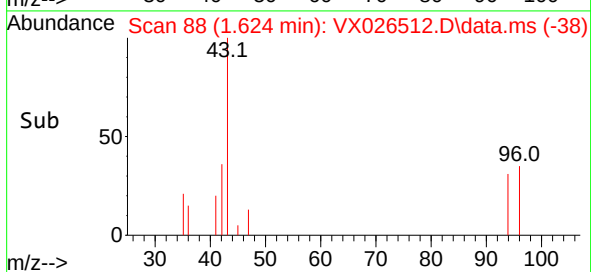
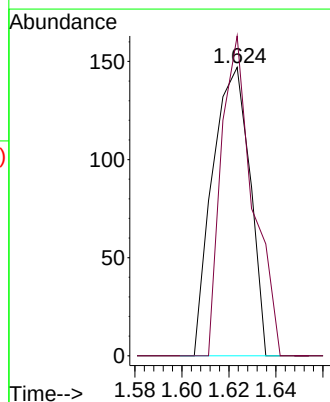
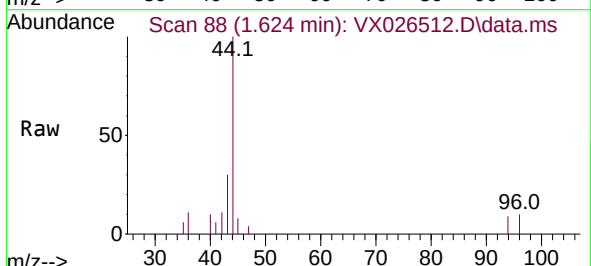
Instrument :
MSVOA_X
ClientSampleId :
20904

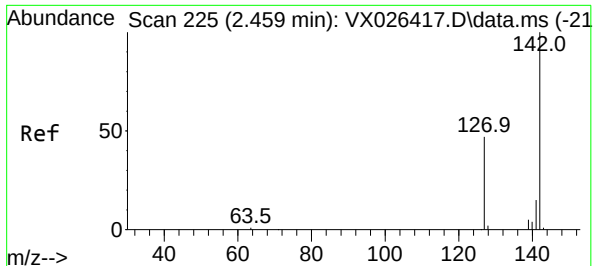
Tgt Ion:168 Resp: 146631
Ion Ratio Lower Upper
168 100
99 61.8 50.3 75.5



#5
Bromomethane
Concen: 0.211 ug/l
RT: 1.624 min Scan# 88
Delta R.T. 0.006 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

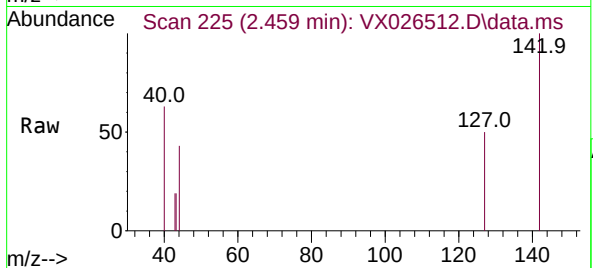
Tgt Ion: 94 Resp: 162
Ion Ratio Lower Upper
94 100
96 110.9 75.9 113.9



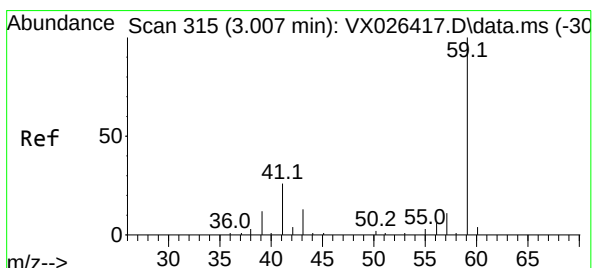
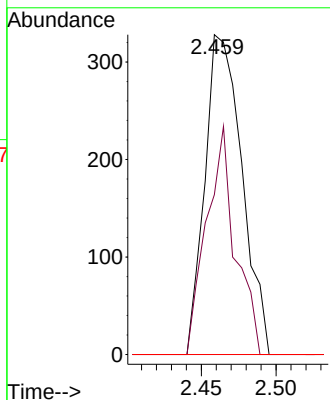
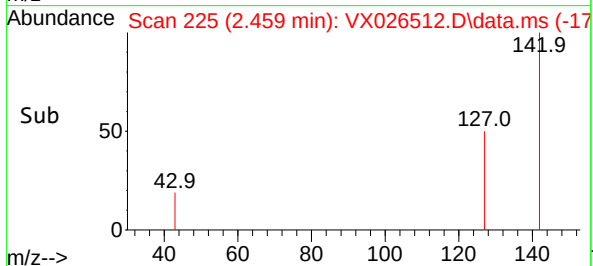


#10
Methyl Iodide
Concen: 4.744 ug/l
RT: 2.459 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

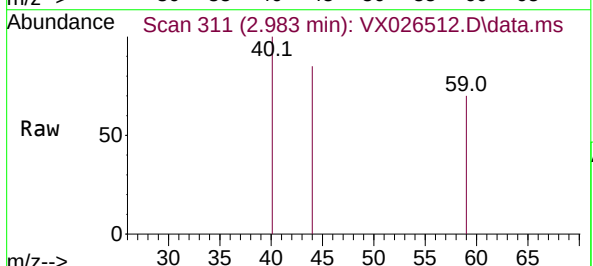
Instrument :
MSVOA_X
ClientSampleId :
20904



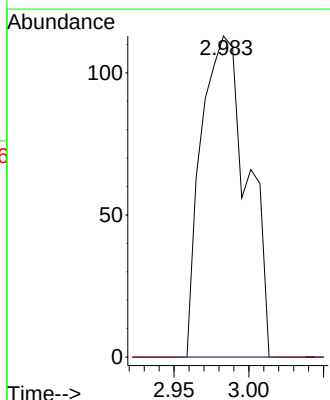
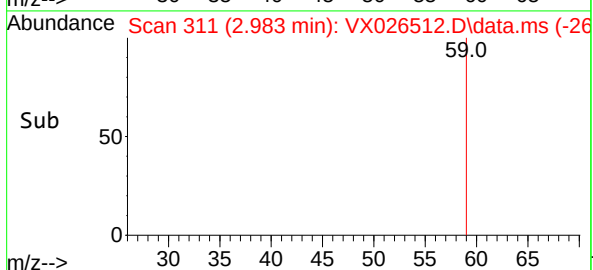
Tgt Ion:142 Resp: 566
Ion Ratio Lower Upper
142 100
127 55.5 38.1 57.1
141 0.0 11.2 16.8#

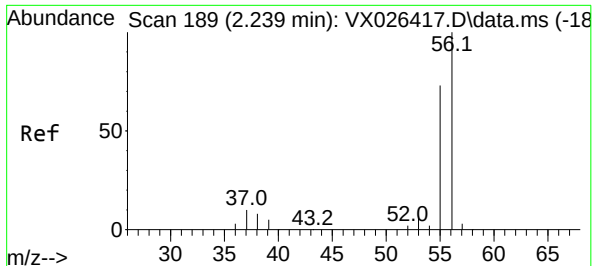


#11
Tert butyl alcohol
Concen: 0.849 ug/l
RT: 2.983 min Scan# 311
Delta R.T. -0.024 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28



Tgt Ion: 59 Resp: 242
Ion Ratio Lower Upper
59 100
57 0.0 7.2 10.8#





#13

Acrolein

Concen: 0.337 ug/l

RT: 2.245 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

Instrument :

MSVOA_X

ClientSampleId :

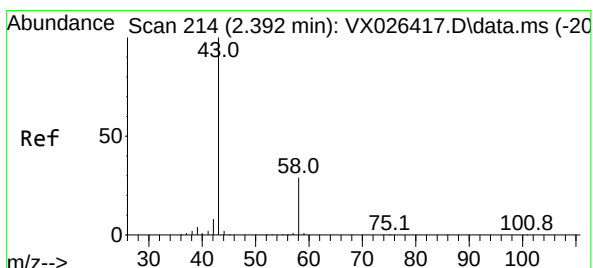
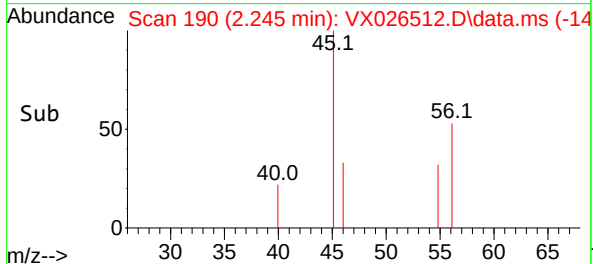
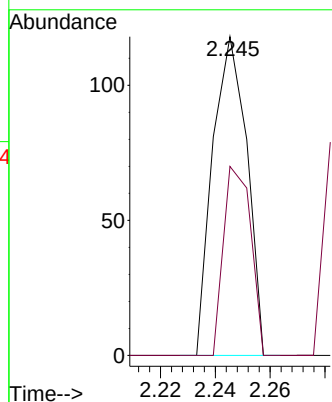
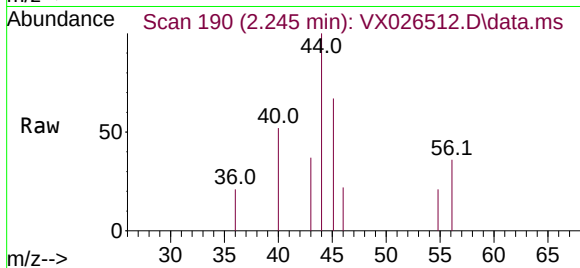
20904

Tgt Ion: 56 Resp: 102

Ion Ratio Lower Upper

56 100

55 47.1 56.9 85.3#



#16

Acetone

Concen: 7.556 ug/l

RT: 2.386 min Scan# 213

Delta R.T. -0.006 min

Lab File: VX026512.D

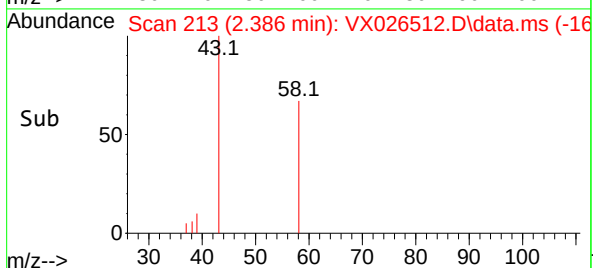
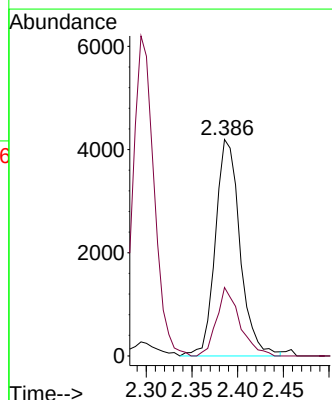
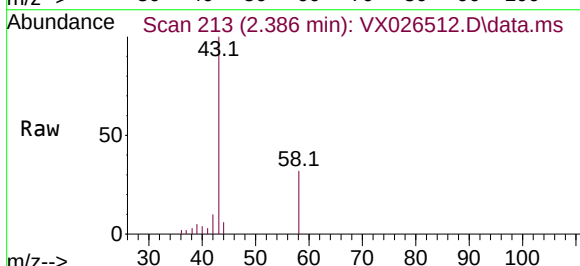
Acq: 19 Jan 2022 12:28

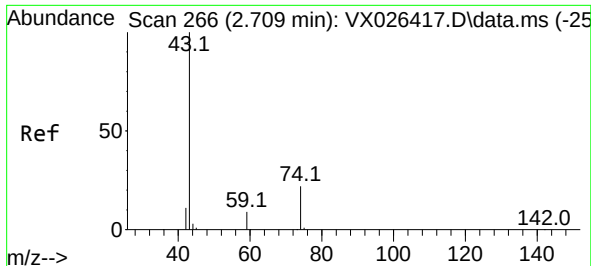
Tgt Ion: 43 Resp: 7893

Ion Ratio Lower Upper

43 100

58 31.7 23.0 34.6





#18

Methyl Acetate

Concen: 0.268 ug/l

RT: 2.709 min Scan# 2

Delta R.T. -0.000 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

Instrument :

MSVOA_X

ClientSampleId :

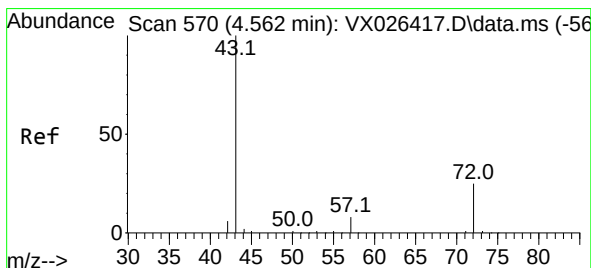
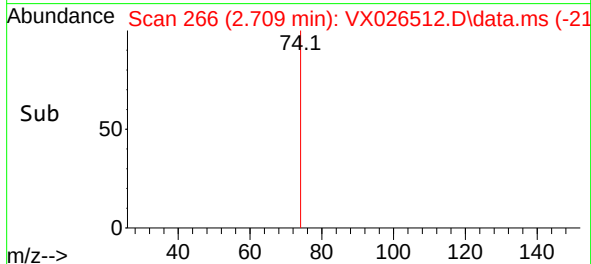
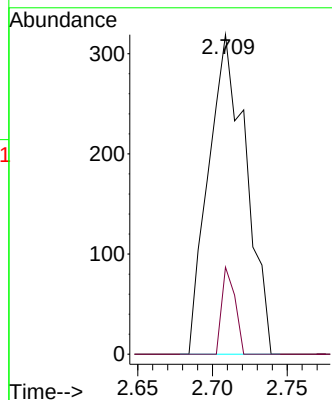
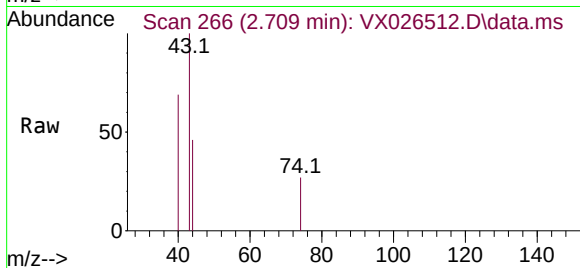
20904

Tgt Ion: 43 Resp: 556

Ion Ratio Lower Upper

43 100

74 9.5 18.3 27.5#



#25

2-Butanone

Concen: 0.819 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.012 min

Lab File: VX026512.D

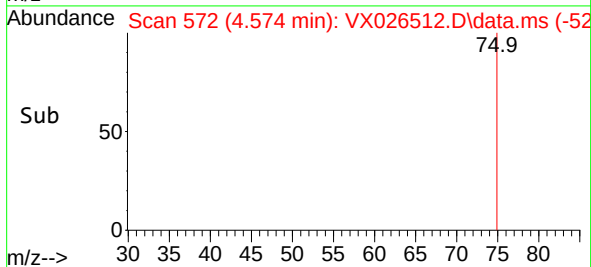
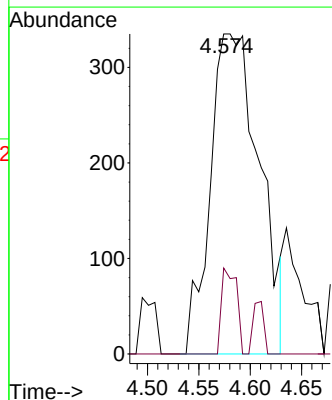
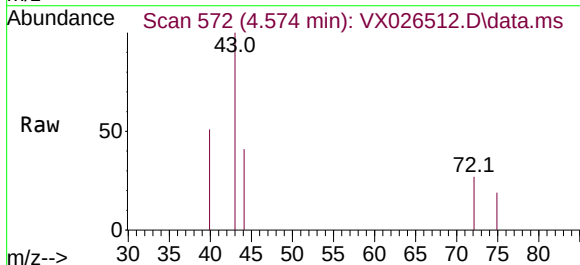
Acq: 19 Jan 2022 12:28

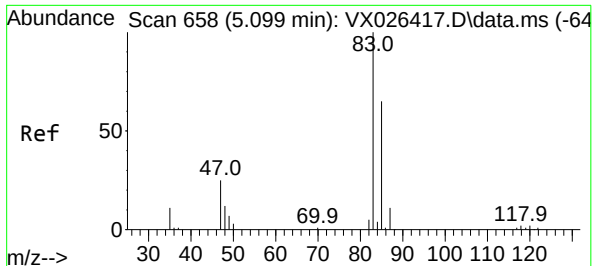
Tgt Ion: 43 Resp: 1113

Ion Ratio Lower Upper

43 100

72 26.9 20.4 30.6





#30

Chloroform

Concen: 0.326 ug/l

RT: 5.105 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

Instrument :

MSVOA_X

ClientSampleId :

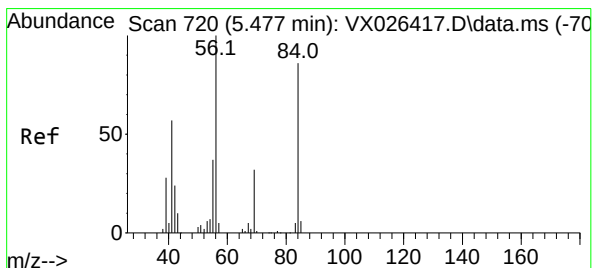
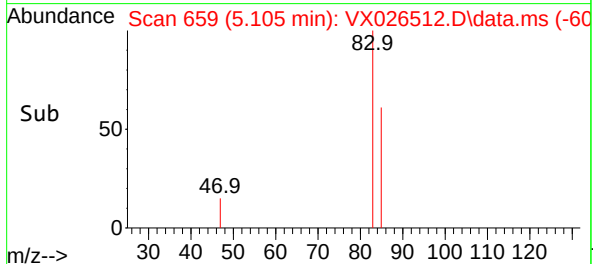
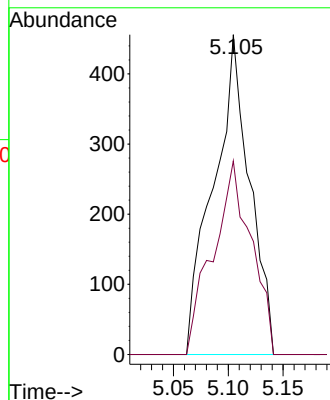
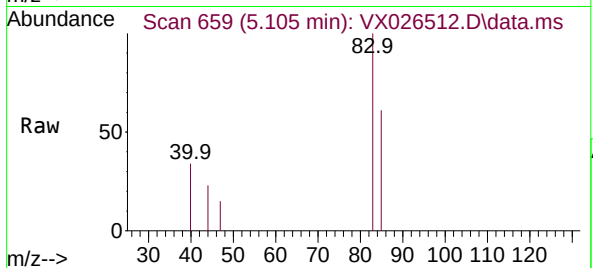
20904

Tgt Ion: 83 Resp: 1048

Ion Ratio Lower Upper

83 100

85 60.5 51.6 77.4



#31

Cyclohexane

Concen: 1.030 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.073 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

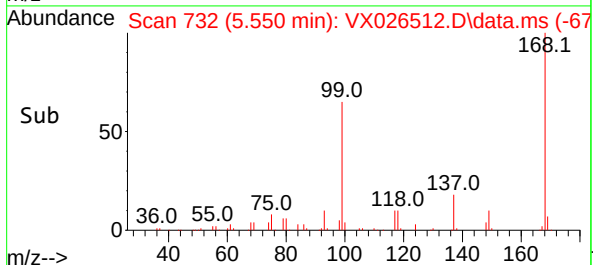
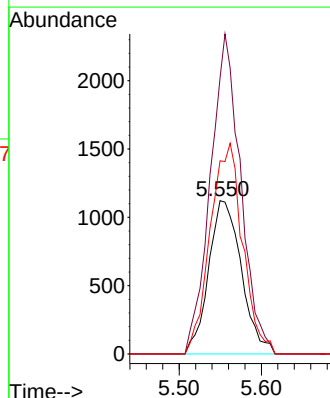
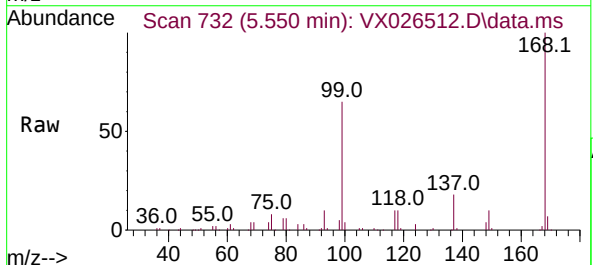
Tgt Ion: 56 Resp: 3111

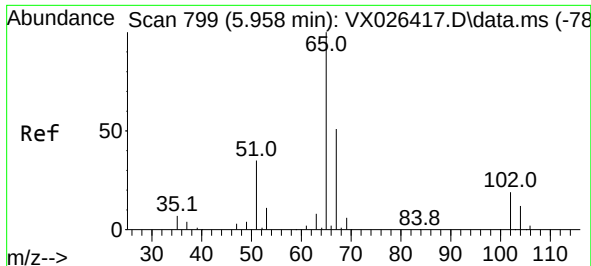
Ion Ratio Lower Upper

56 100

69 180.0 25.8 38.6#

84 125.9 68.9 103.3#

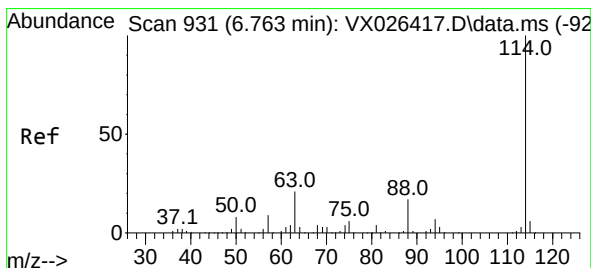
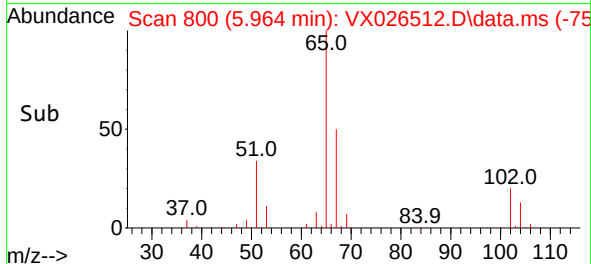
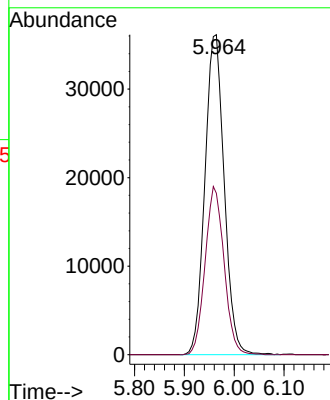
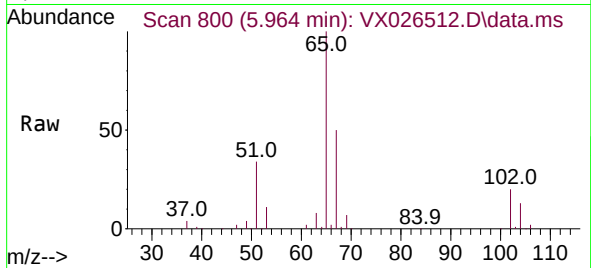




#33
 1,2-Dichloroethane-d4
 Concen: 47.391 ug/l
 RT: 5.964 min Scan# 800
 Delta R.T. 0.006 min
 Lab File: VX026512.D
 Acq: 19 Jan 2022 12:28

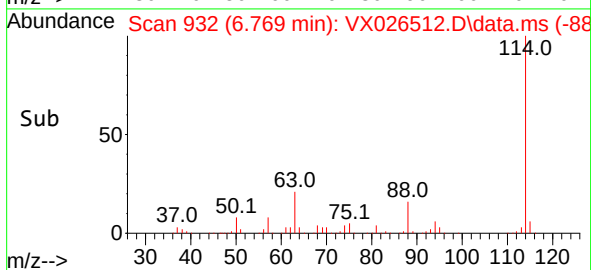
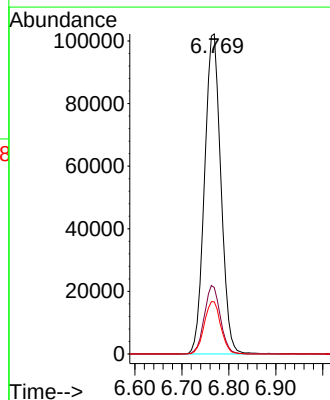
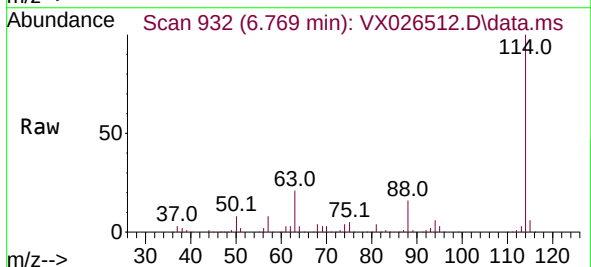
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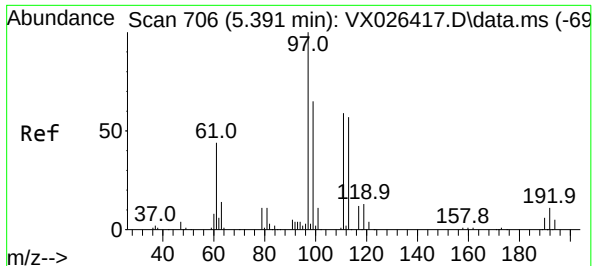
Tgt Ion: 65 Resp: 97073
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 100.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.769 min Scan# 932
 Delta R.T. 0.006 min
 Lab File: VX026512.D
 Acq: 19 Jan 2022 12:28

Tgt Ion: 114 Resp: 245592
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 42.8
 88 16.3 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.018 ug/l

RT: 5.391 min Scan# 706

Delta R.T. -0.000 min

Lab File: VX026512.D

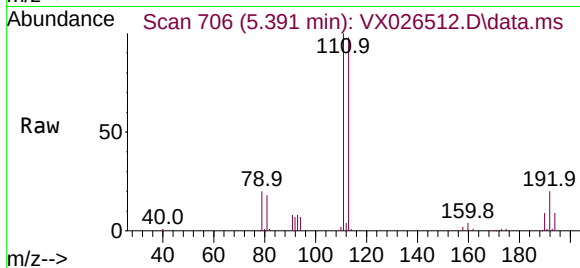
Acq: 19 Jan 2022 12:28

Instrument :

MSVOA_X

ClientSampleId :

20904



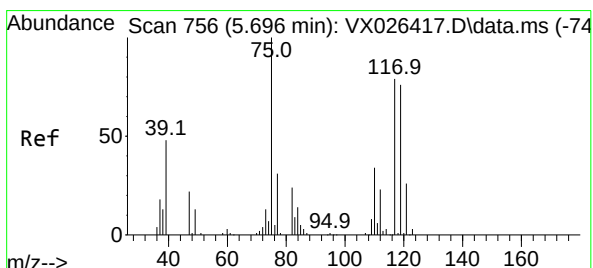
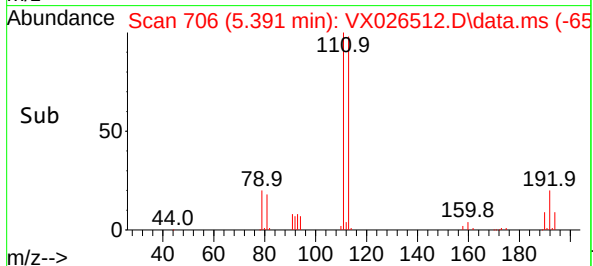
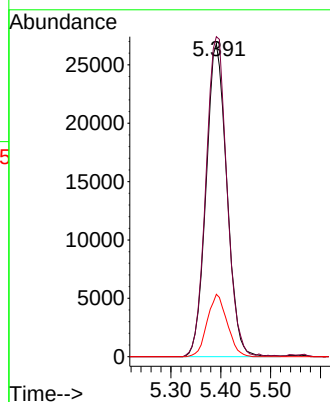
Tgt Ion:113 Resp: 77741

Ion Ratio Lower Upper

113 100

111 103.2 81.2 121.8

192 19.1 15.0 22.4



#36

1,1-Dichloropropene

Concen: 4.696 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.134 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

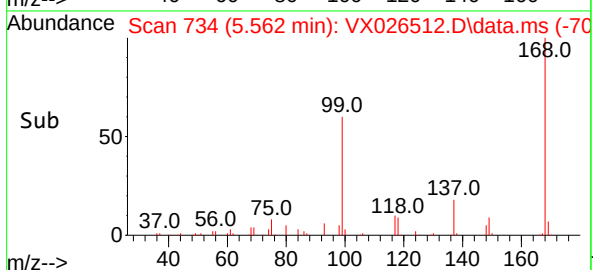
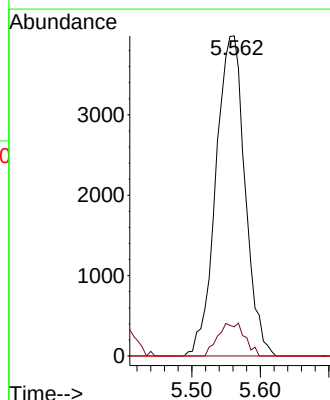
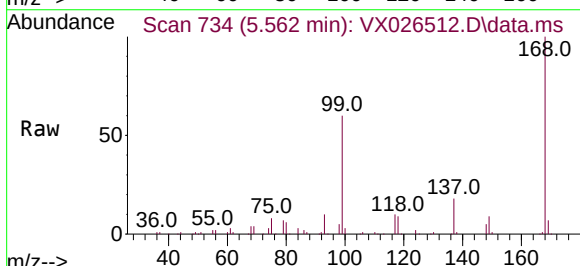
Tgt Ion: 75 Resp: 11758

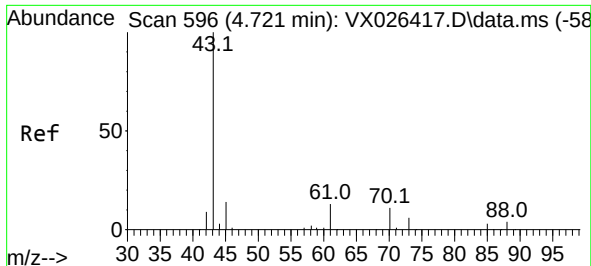
Ion Ratio Lower Upper

75 100

110 9.4 17.2 51.6#

77 0.0 24.6 36.8#





#37

Ethyl Acetate

Concen: 0.508 ug/l

RT: 4.721 min Scan# 596

Delta R.T. -0.000 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

Instrument :

MSVOA_X

ClientSampleId :

20904

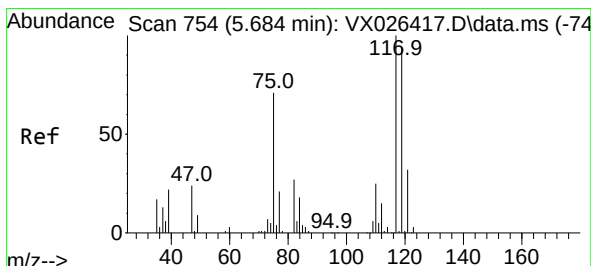
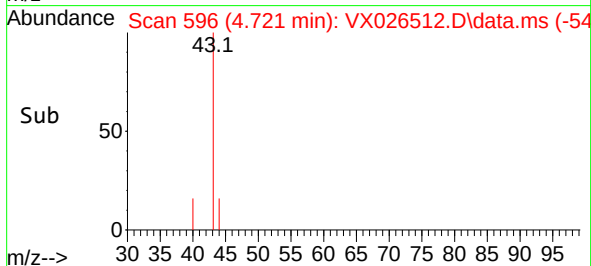
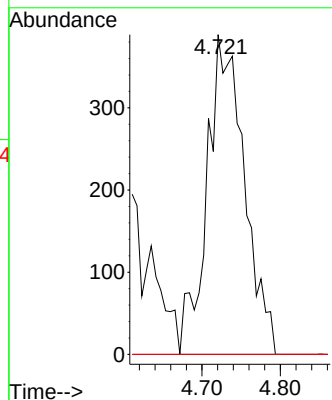
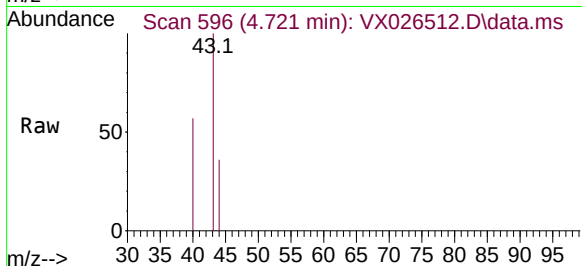
Tgt Ion: 43 Resp: 1287

Ion Ratio Lower Upper

43 100

61 0.0 10.6 16.0#

70 0.0 8.5 12.7#



#38

Carbon Tetrachloride

Concen: 5.896 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.128 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

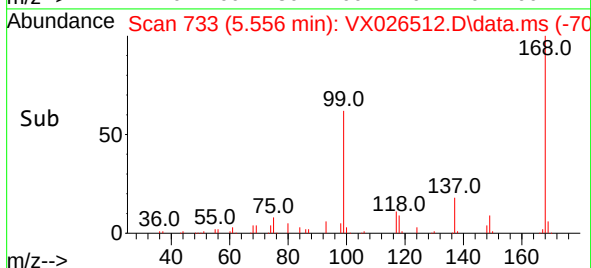
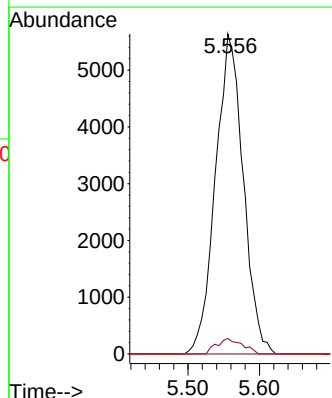
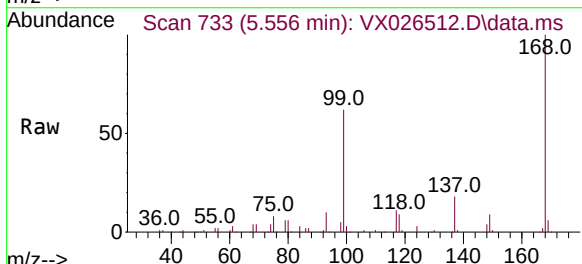
Tgt Ion: 117 Resp: 15184

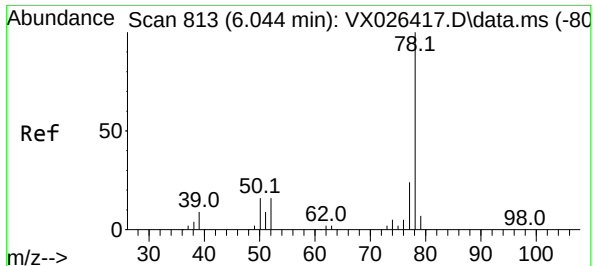
Ion Ratio Lower Upper

117 100

119 4.9 74.7 112.1#

121 0.0 25.4 38.0#





#40

Benzene

Concen: 3.499 ug/l

RT: 6.043 min Scan# 81

Delta R.T. -0.000 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

Instrument :

MSVOA_X

ClientSampleId :

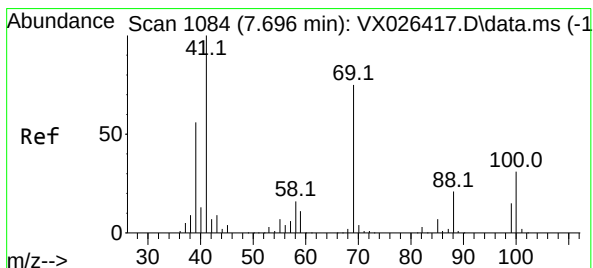
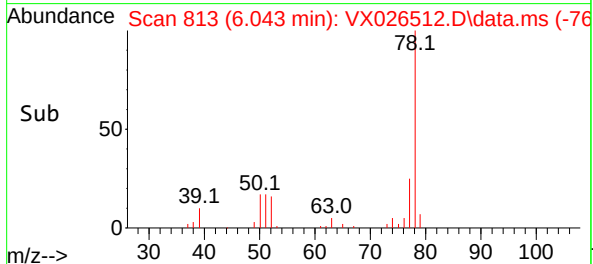
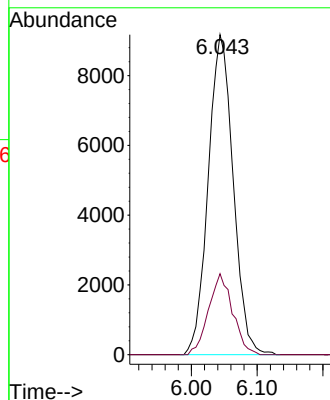
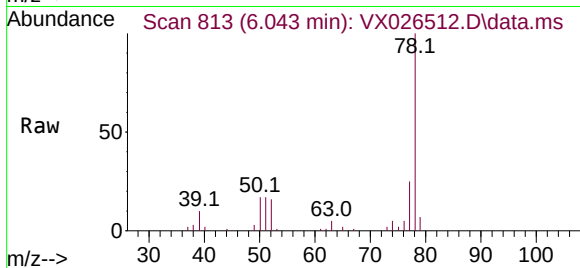
20904

Tgt Ion: 78 Resp: 24212

Ion Ratio Lower Upper

78 100

77 25.3 18.9 28.3



#48

Methyl methacrylate

Concen: 1.287 ug/l

RT: 7.580 min Scan# 1065

Delta R.T. -0.116 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

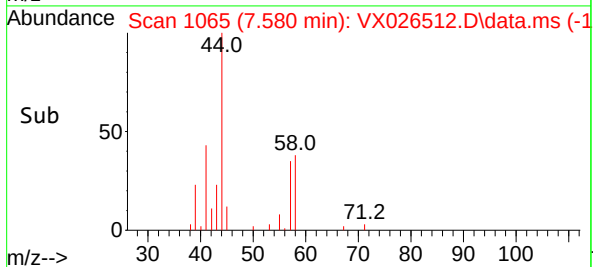
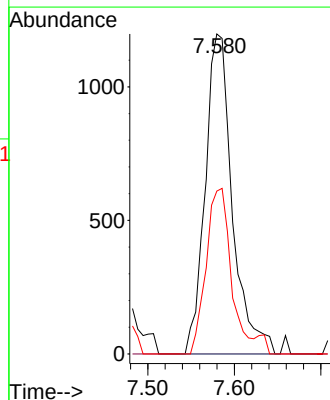
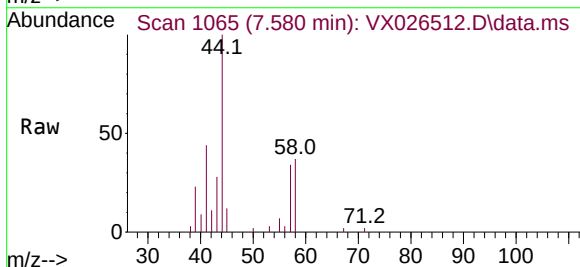
Tgt Ion: 41 Resp: 2610

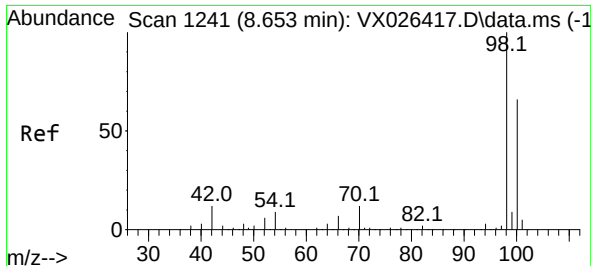
Ion Ratio Lower Upper

41 100

69 0.0 62.2 93.4#

39 49.5 45.4 68.0

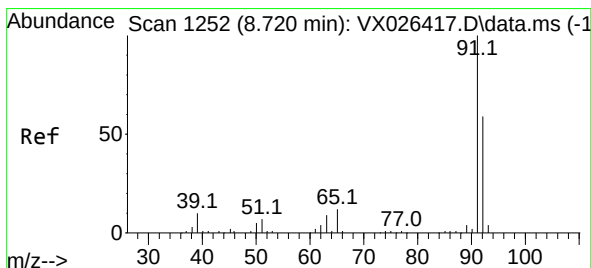
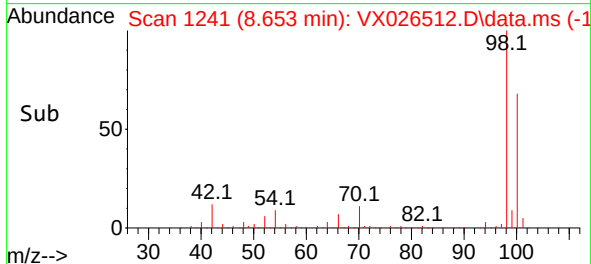
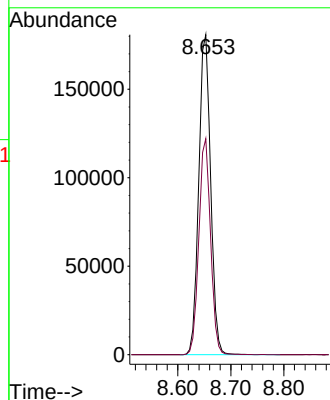
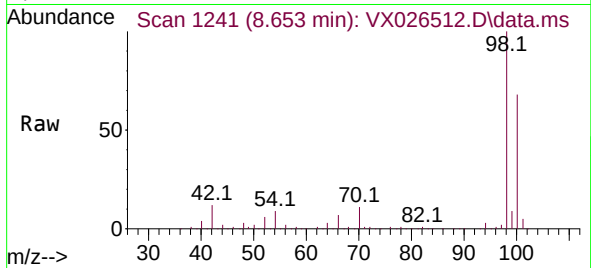




#50
Toluene-d8
Concen: 49.195 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

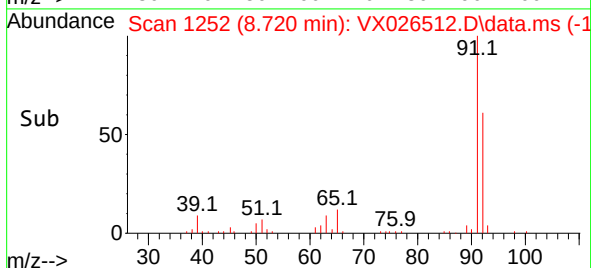
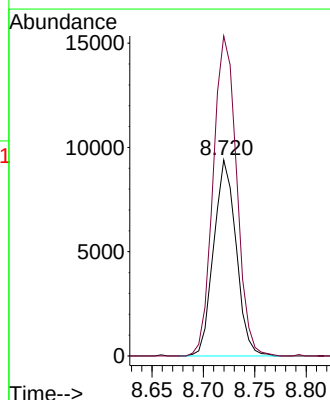
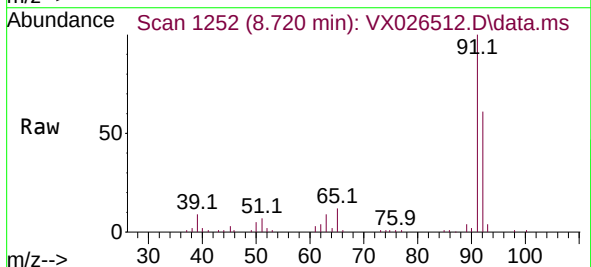
Instrument :
MSVOA_X
ClientSampleId :
20904

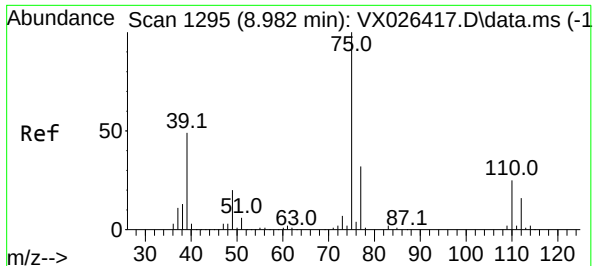
Tgt Ion: 98 Resp: 281155
Ion Ratio Lower Upper
98 100
100 66.5 53.2 79.8



#52
Toluene
Concen: 3.357 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

Tgt Ion: 92 Resp: 14245
Ion Ratio Lower Upper
92 100
91 171.0 135.7 203.5





#53

t-1,3-Dichloropropene

Concen: 1.914 ug/l

RT: 8.720 min Scan# 11

Delta R.T. -0.262 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

Instrument :

MSVOA_X

ClientSampleId :

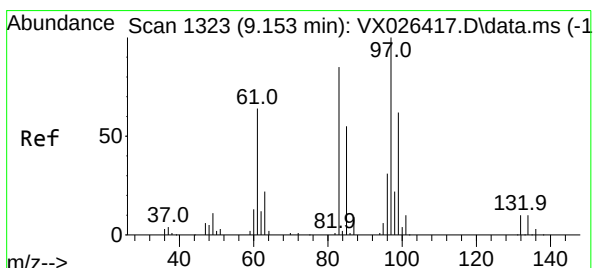
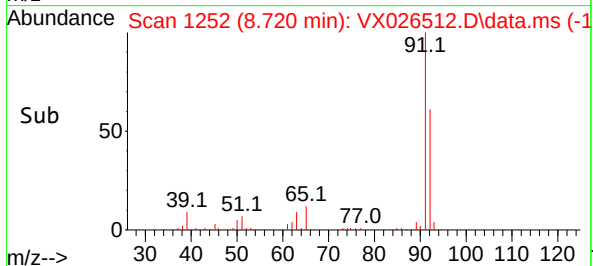
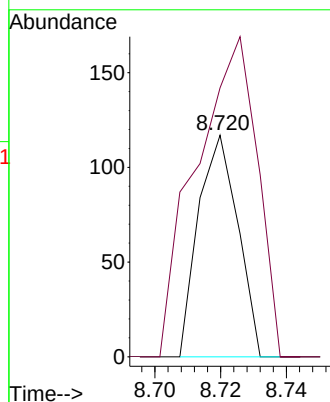
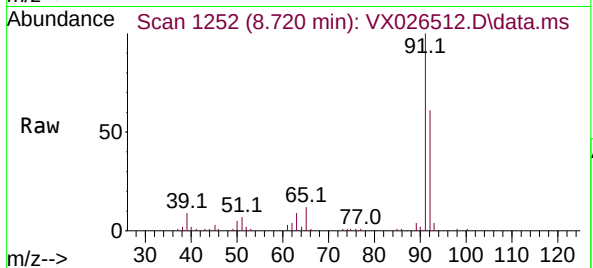
20904

Tgt Ion: 75 Resp: 97

Ion Ratio Lower Upper

75 100

77 121.4 25.7 38.5#



#55

1,1,2-Trichloroethane

Concen: 0.205 ug/l

RT: 9.012 min Scan# 1300

Delta R.T. -0.140 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

Tgt Ion: 97 Resp: 339

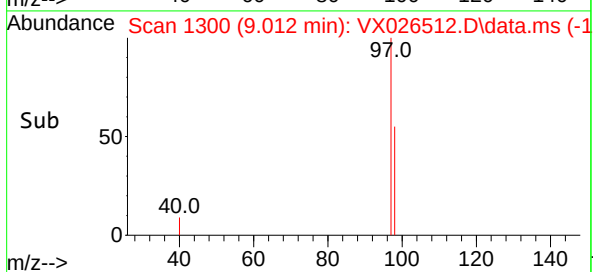
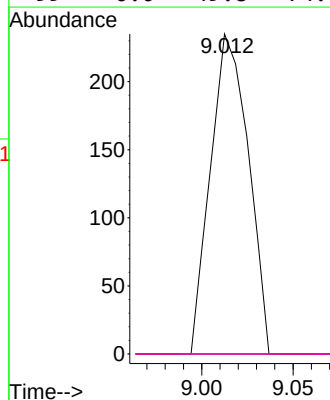
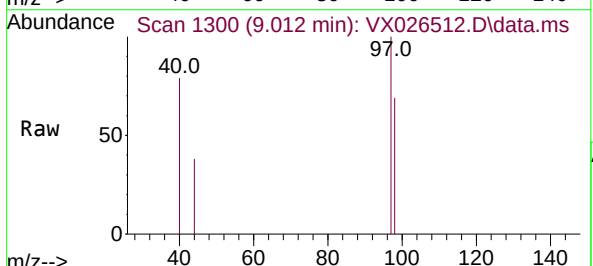
Ion Ratio Lower Upper

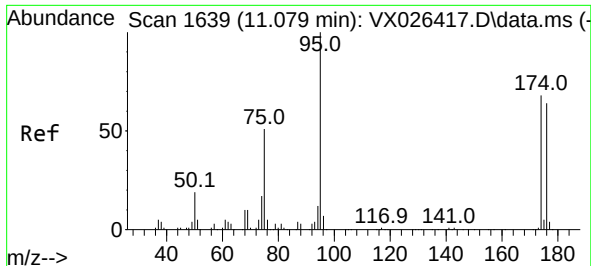
97 100

83 0.0 68.4 102.6#

85 0.0 44.0 66.0#

99 0.0 49.8 74.6#

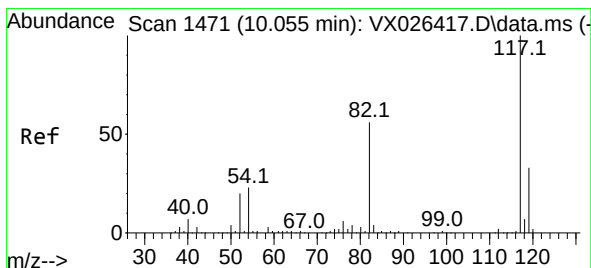
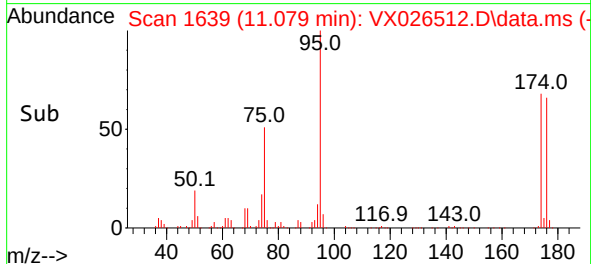
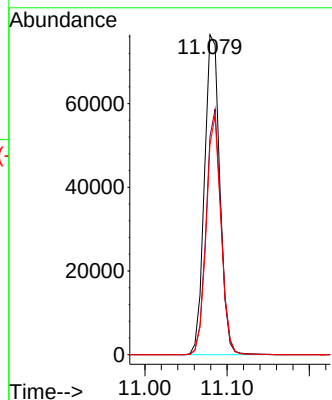
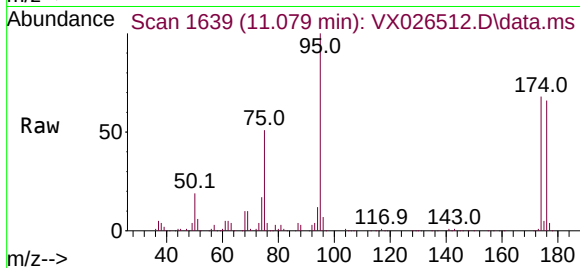




#62
4-Bromofluorobenzene
Concen: 48.784 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

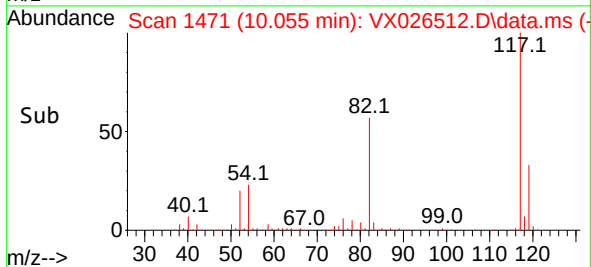
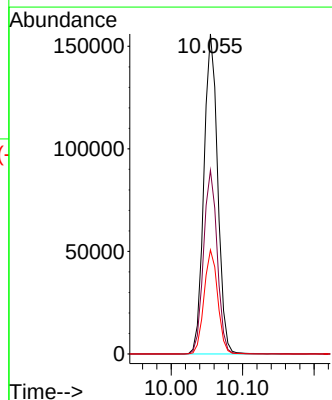
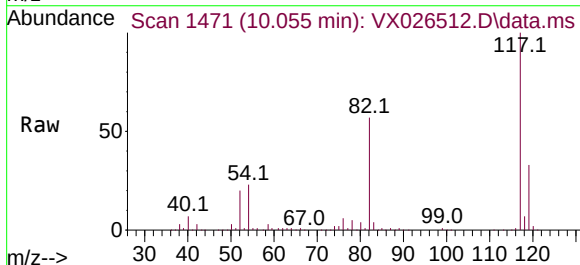
Instrument :
MSVOA_X
ClientSampleId :
20904

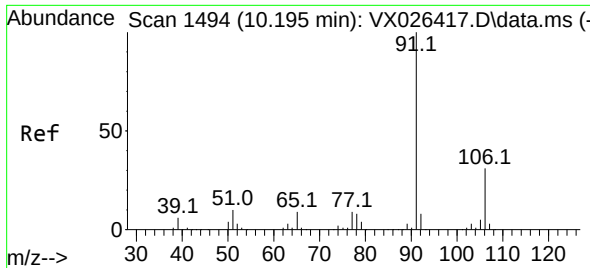
Tgt Ion: 95 Resp: 99043
Ion Ratio Lower Upper
95 100
174 74.4 0.0 148.6
176 71.6 0.0 141.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

Tgt Ion: 117 Resp: 209102
Ion Ratio Lower Upper
117 100
82 57.4 45.2 67.8
119 32.5 26.2 39.2

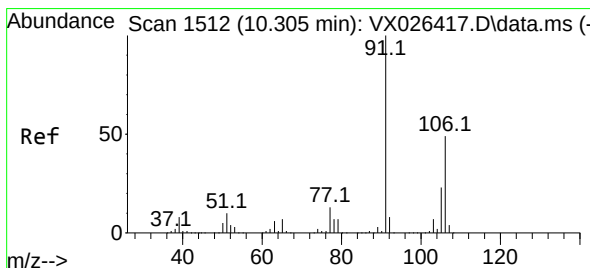
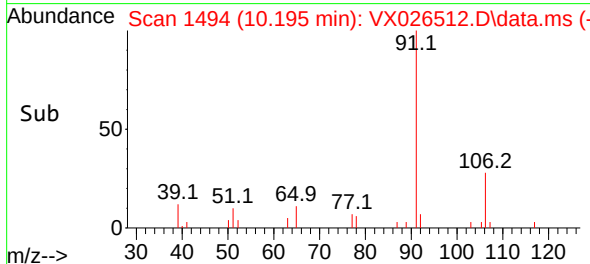
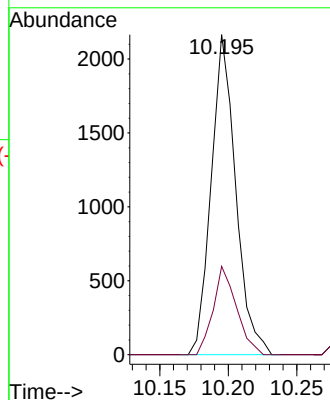
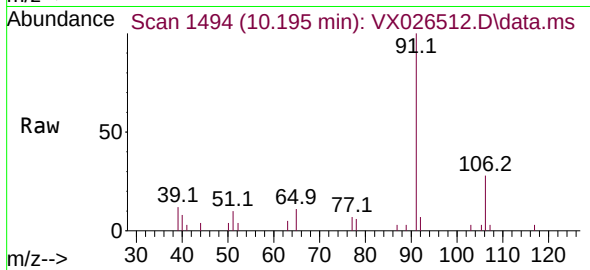




#67
Ethyl Benzene
Concen: 0.337 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

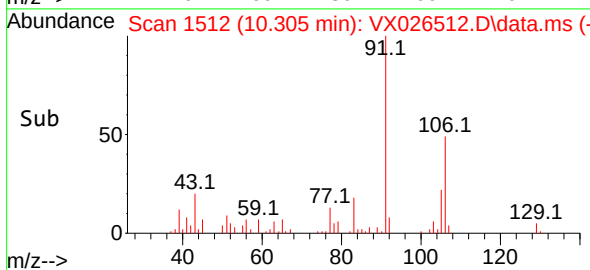
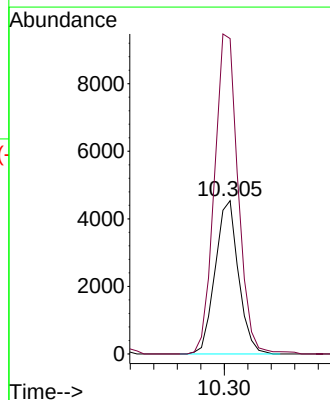
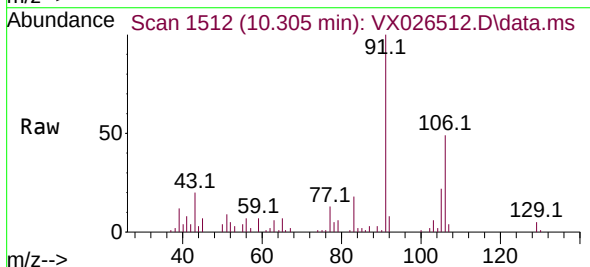
Instrument :
MSVOA_X
ClientSampleId :
20904

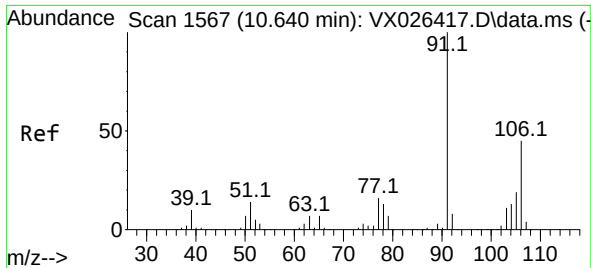
Tgt Ion: 91 Resp: 2694
Ion Ratio Lower Upper
91 100
106 27.6 24.7 37.1



#68
m/p-Xylenes
Concen: 2.090 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. -0.000 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

Tgt Ion: 106 Resp: 6258
Ion Ratio Lower Upper
106 100
91 212.0 165.3 247.9

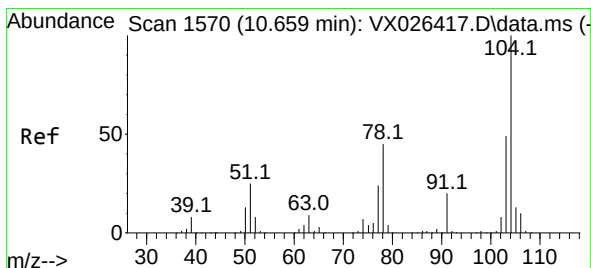
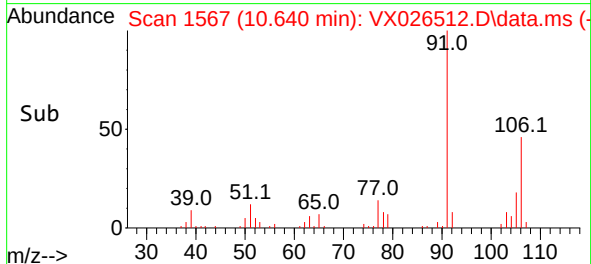
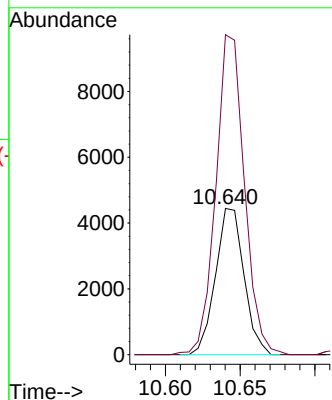
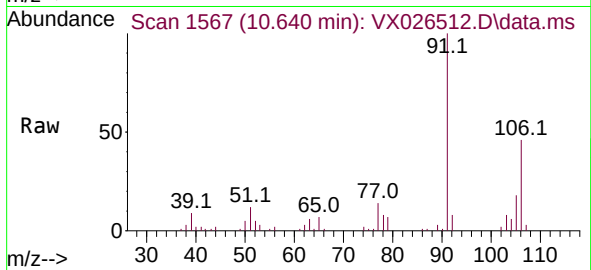




#69
o-Xylene
Concen: 2.040 ug/l
RT: 10.640 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

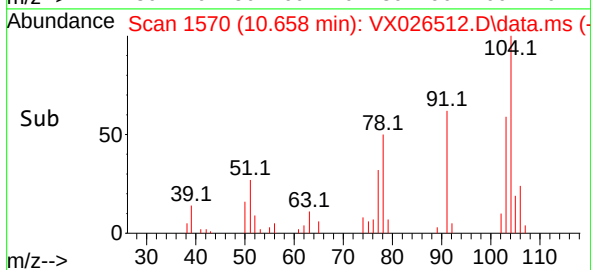
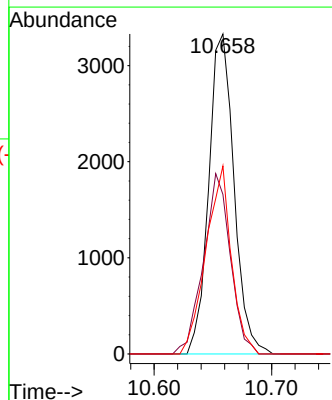
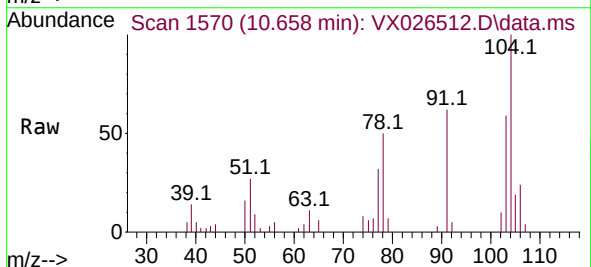
Instrument :
MSVOA_X
ClientSampleId :
20904

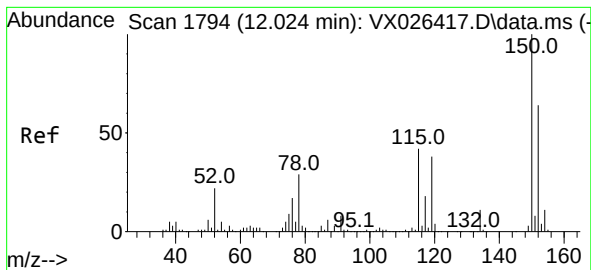
Tgt Ion:106 Resp: 5894
Ion Ratio Lower Upper
106 100
91 219.8 109.7 329.0



#70
Styrene
Concen: 1.056 ug/l
RT: 10.658 min Scan# 1570
Delta R.T. -0.000 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

Tgt Ion:104 Resp: 4979
Ion Ratio Lower Upper
104 100
78 59.9 42.5 63.7
103 59.1 43.3 64.9

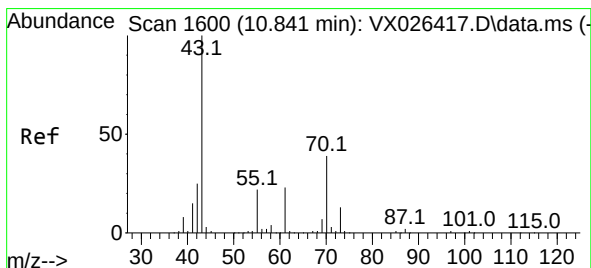
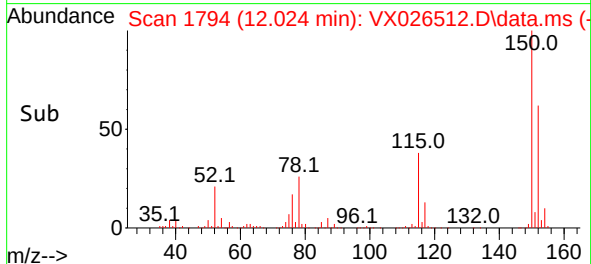
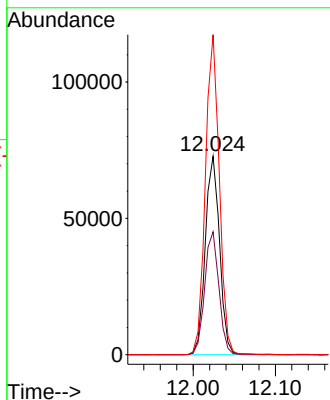
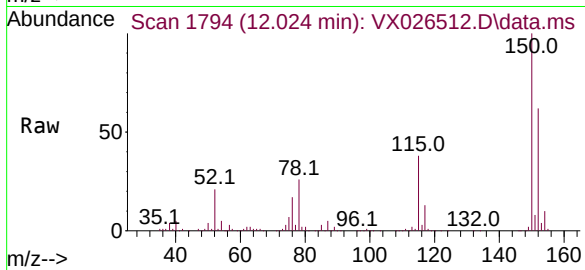




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.024 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX026512.D
 Acq: 19 Jan 2022 12:28

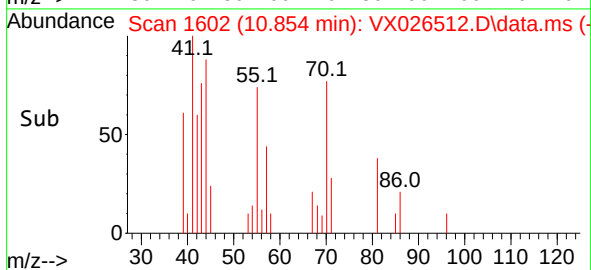
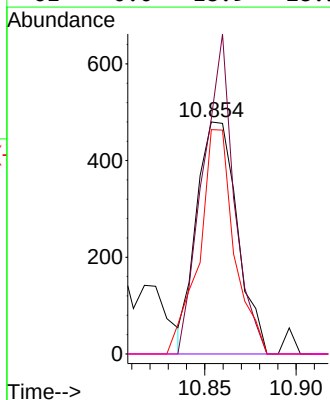
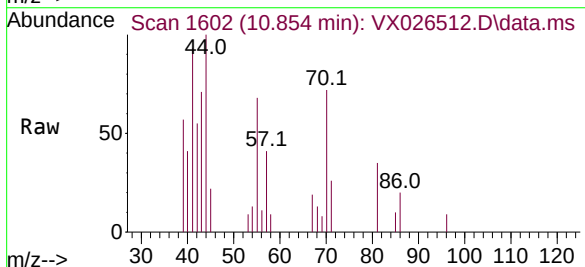
Instrument :
 MSVOA_X
 ClientSampleId :
 20904

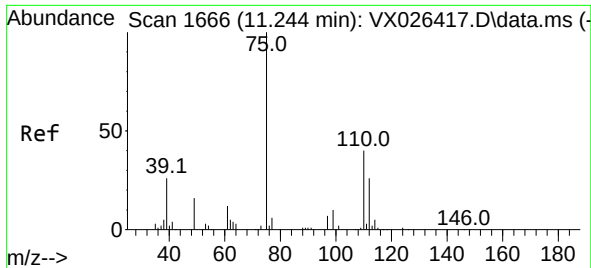
Tgt Ion:152 Resp: 87879
 Ion Ratio Lower Upper
 152 100
 115 61.6 44.2 132.6
 150 157.0 0.0 348.2



#74
 N-ethyl acetate
 Concen: 0.268 ug/l
 RT: 10.854 min Scan# 1602
 Delta R.T. 0.012 min
 Lab File: VX026512.D
 Acq: 19 Jan 2022 12:28

Tgt Ion: 43 Resp: 745
 Ion Ratio Lower Upper
 43 100
 70 105.8 32.9 49.3#
 55 83.2 18.3 27.5#
 61 0.0 18.9 28.3#

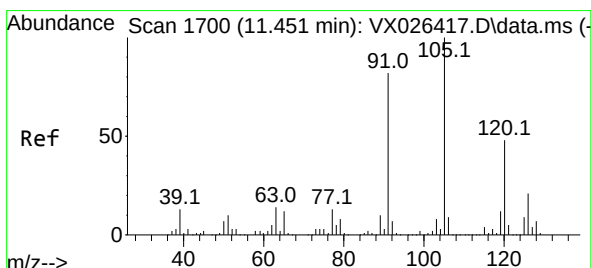
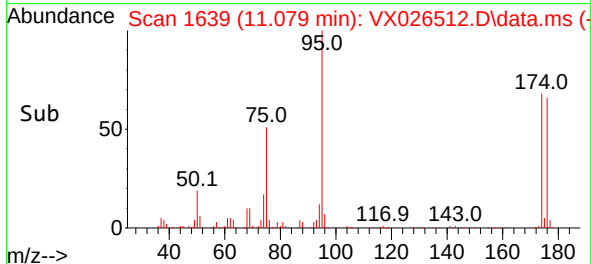
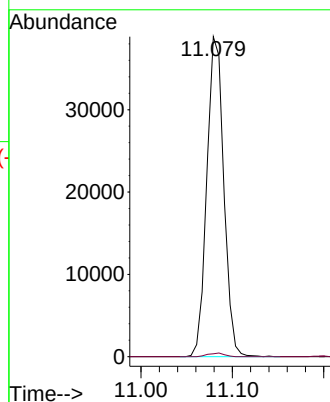
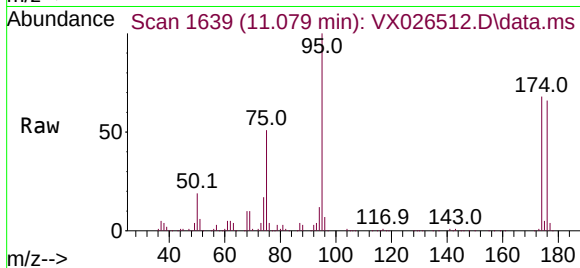




#76
 1,2,3-Trichloropropane
 Concen: 25.815 ug/l
 RT: 11.079 min Scan# 11
 Delta R.T. -0.165 min
 Lab File: VX026512.D
 Acq: 19 Jan 2022 12:28

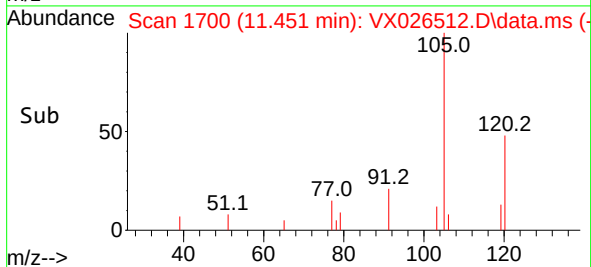
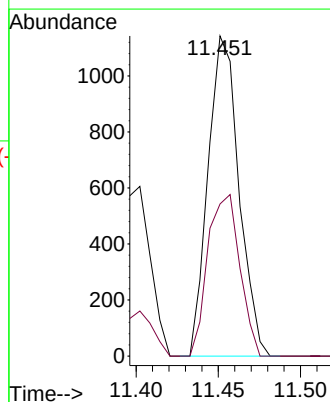
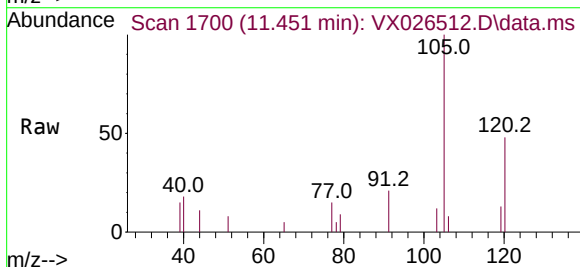
Instrument :
 MSVOA_X
 ClientSampleId :
 20904

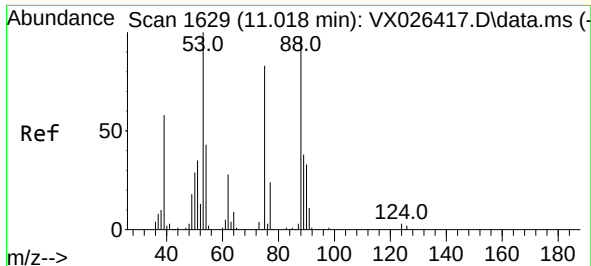
Tgt Ion: 75 Resp: 49950
 Ion Ratio Lower Upper
 75 100
 77 1.1 18.3 54.8#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.251 ug/l
 RT: 11.451 min Scan# 1700
 Delta R.T. -0.000 min
 Lab File: VX026512.D
 Acq: 19 Jan 2022 12:28

Tgt Ion: 105 Resp: 1491
 Ion Ratio Lower Upper
 105 100
 120 52.2 24.0 72.0

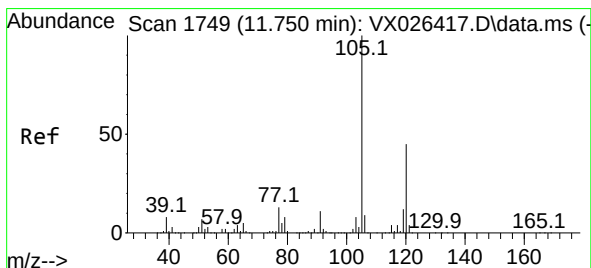
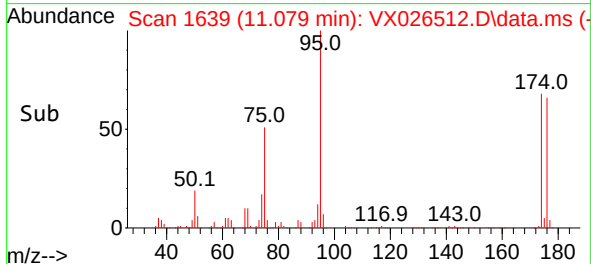
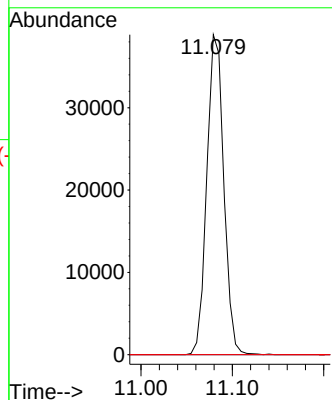
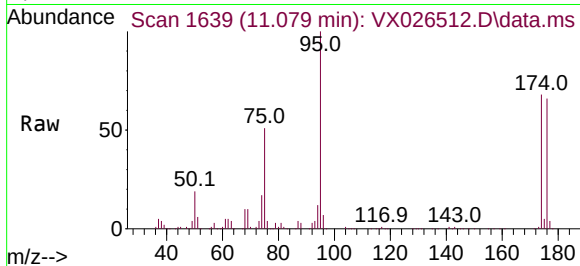




#81
trans-1,4-Dichloro-2-butene
Concen: 78.306 ug/l
RT: 11.079 min Scan# 1100
Delta R.T. 0.061 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

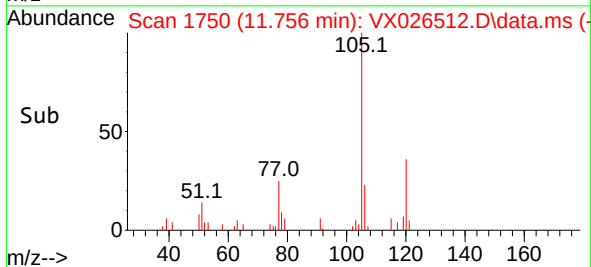
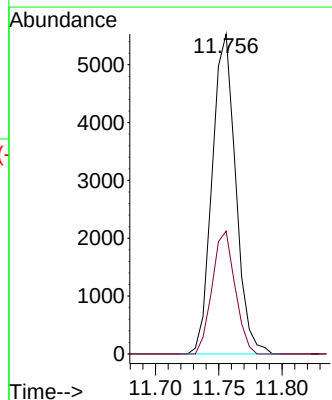
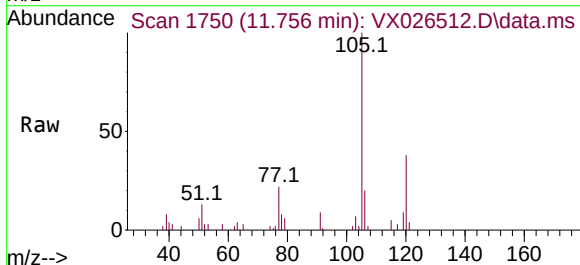
Instrument :
MSVOA_X
ClientSampleId :
20904

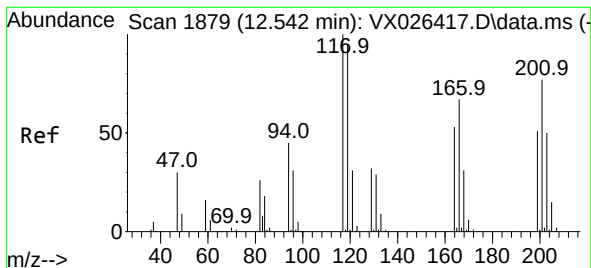
Tgt Ion: 75 Resp: 49950
Ion Ratio Lower Upper
75 100
53 0.0 94.0 141.0#
89 0.0 37.0 55.4#



#84
1,2,4-Trimethylbenzene
Concen: 1.204 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX026512.D
Acq: 19 Jan 2022 12:28

Tgt Ion: 105 Resp: 7149
Ion Ratio Lower Upper
105 100
120 37.3 21.9 65.5





#90

Hexachloroethane

Concen: 3.876 ug/l

RT: 12.414 min Scan# 1879

Delta R.T. -0.128 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

Instrument :

MSVOA_X

ClientSampleId :

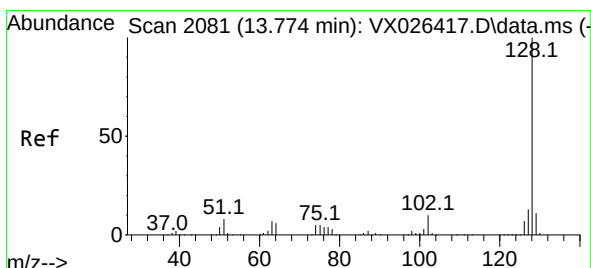
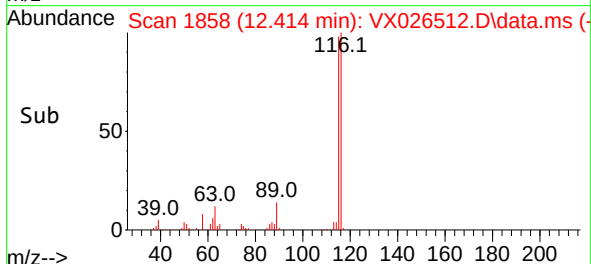
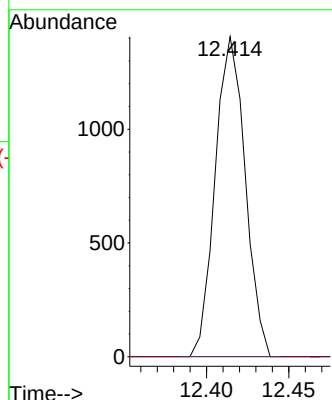
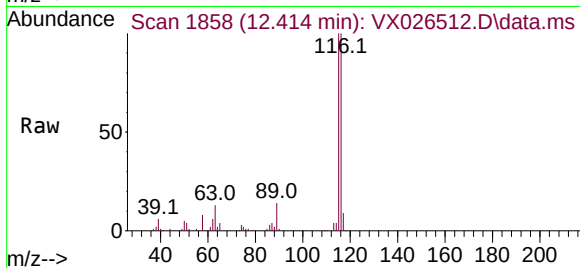
20904

Tgt Ion:117 Resp: 1783

Ion Ratio Lower Upper

117 100

201 0.0 35.6 106.8#



#95

Naphthalene

Concen: 13.386 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX026512.D

Acq: 19 Jan 2022 12:28

Tgt Ion:128 Resp: 83676

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

129 10.9 8.7 13.1

