

Data Path : Z:\voasrv\HPCHEM1\MSVOA X\Data\WX100418\
 Data File : VX005059.D
 Acq On : 05 Oct 2018 10:18
 Operator : JC/MD
 Sample : J5207-24
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 97 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW512-3135

Quant Time: Oct 05 11:35:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X092618W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 03 04:00:03 2018
 Response via : Initial Calibration

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

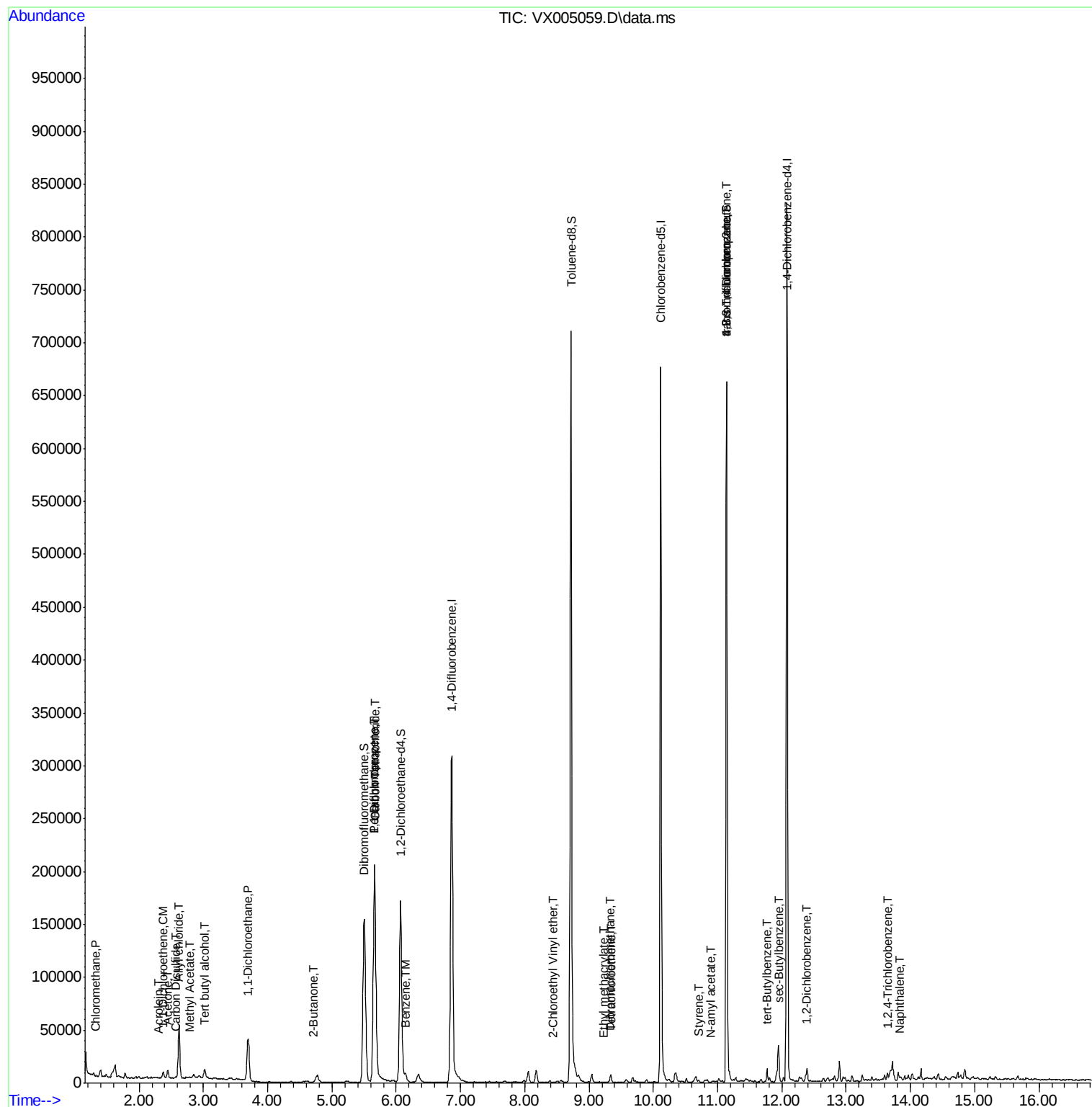
Internal Standards						
1) Pentafluorobenzene	5.659	168	205092	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.866	114	326478	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.115	117	314540	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.079	152	172569	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.067	65	161037	54.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	109.94%	
35) Dibromofluoromethane	5.500	113	135405	48.94	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.88%	
50) Toluene-d8	8.719	98	470825	51.18	ug/l	0.00
Spiked Amount 50.000			Recovery	=	102.36%	
62) 4-Bromofluorobenzene	11.140	95	166490	50.24	ug/l	0.00
Spiked Amount 50.000			Recovery	=	100.48%	
Target Compounds						Qvalue
3) Chloromethane	1.324	50	730	0.22	ug/l	96
6) Chloroethane	1.708	64	105	Below	Cal	# 45
11) Tert butyl alcohol	3.019	59	6092	7.44	ug/l	# 75
12) 1,1-Dichloroethene	2.373	96	1828	0.82	ug/l	93
13) Acrolein	2.300	56	143	0.25	ug/l	# 69
14) Allyl chloride	2.617	41	5285	1.09	ug/l	# 56
16) Acetone	2.446	43	8610	5.03	ug/l	# 87
17) Carbon Disulfide	2.574	76	1402	0.21	ug/l	# 91
18) Methyl Acetate	2.781	43	1039	0.24	ug/l	# 78
20) Methylene Chloride	2.848	84	813	Below	Cal	92
24) 1,1-Dichloroethane	3.690	63	47303	9.71	ug/l	98
25) 2-Butanone	4.708	43	1036	0.41	ug/l	# 49
36) 1,1-Dichloropropene	5.659	75	13971	3.70	ug/l	# 46
38) Carbon Tetrachloride	5.665	117	18681	4.71	ug/l	# 18
40) Benzene	6.141	78	8182	0.69	ug/l	96
56) Ethyl methacrylate	9.225	69	116	2.89	ug/l	# 38
58) 2-Chloroethyl Vinyl ether	8.439	63	21	14.25	ug/l	# 49
60) Dibromochloromethane	9.335	129	1369	0.48	ug/l	# 10
64) Tetrachloroethene	9.341	164	1363	0.44	ug/l	85
70) Styrene	10.707	104	19	2.14	ug/l	# 1
74) N-amyl acetate	10.890	43	90	1.76	ug/l	# 33
76) 1,2,3-Trichloropropane	11.140	75	82166	21.24	ug/l	# 35
80) 1,3,5-Trimethylbenzene	11.512	105	472	Below	Cal	85
81) trans-1,4-Dichloro-2-b...	11.140	75	82166	57.62	ug/l	# 10
83) tert-Butylbenzene	11.768	119	4129	0.46	ug/l	83
84) 1,2,4-Trimethylbenzene	11.810	105	1370	Below	Cal	97
85) sec-Butylbenzene	11.951	105	17386	1.59	ug/l	88
91) 1,2-Dichlorobenzene	12.389	146	3212	0.52	ug/l	94
93) 1,2,4-Trichlorobenzene	13.645	180	1208	0.28	ug/l	# 74
95) Naphthalene	13.834	128	1739	0.84	ug/l	# 75

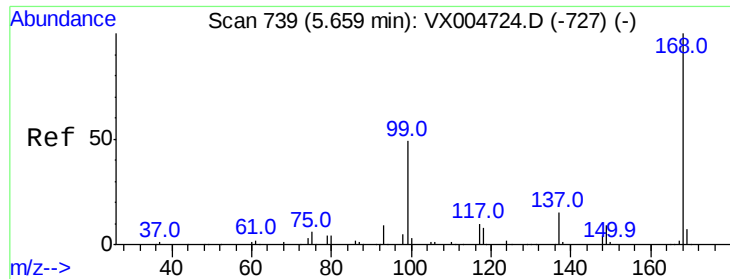
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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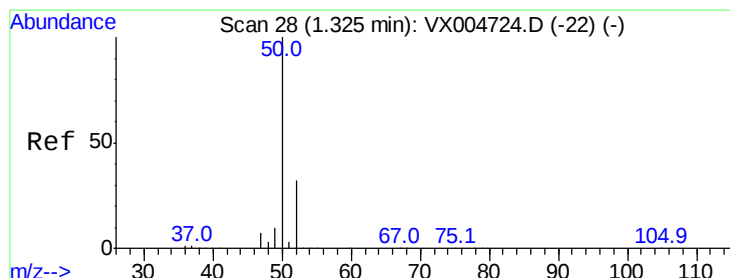
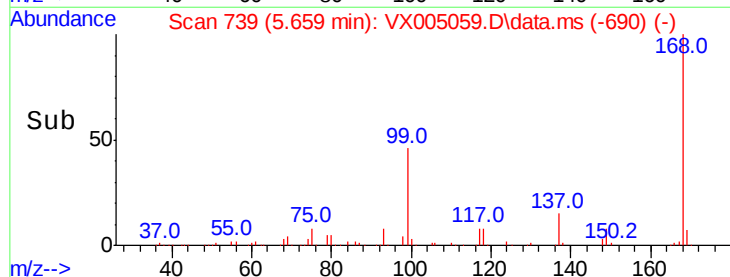
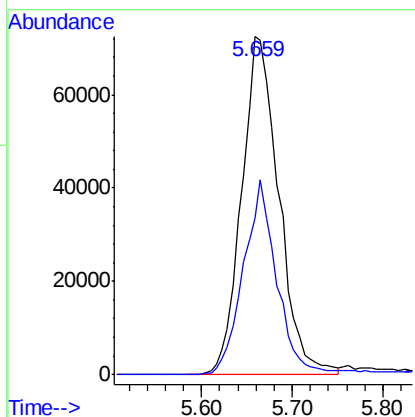
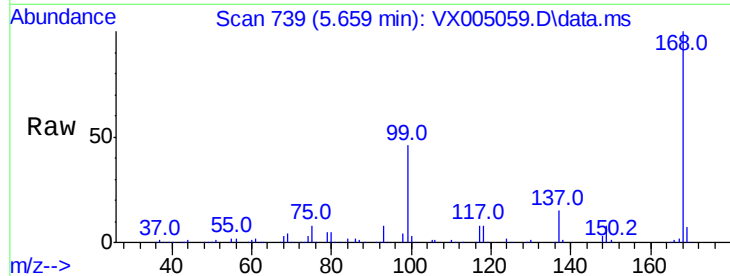




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.659 min Scan# 739
Delta R.T. -0.000 min
Lab File: VX005059.D
Acq: 05 Oct 2018 10:18

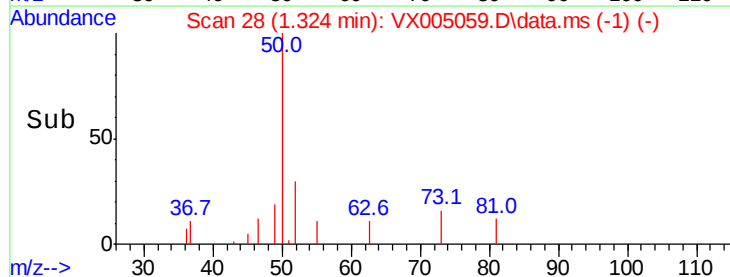
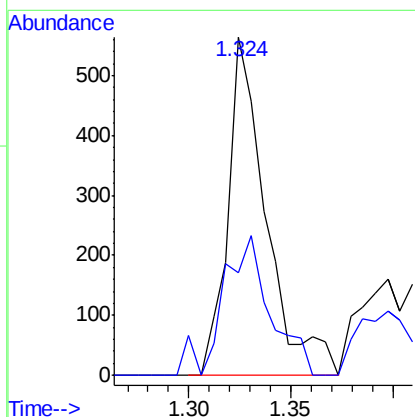
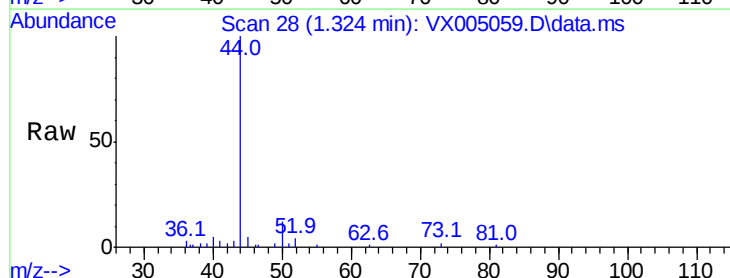
Instrument :
MSVOA_X
ClientSampleId :
SA-TW512-3135

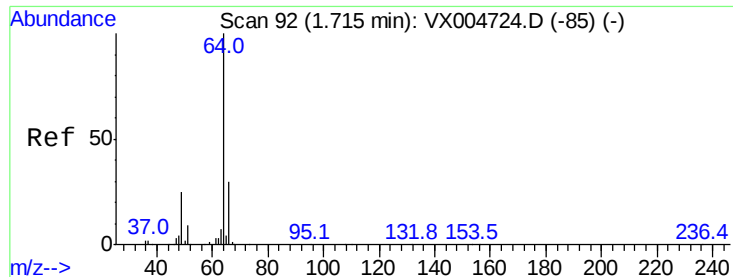
Tot Ion:168 Resp: 205092
Ion Ratio Lower Upper
168 100
99 46.3 39.3 58.9



#3
Chloromethane
Concen: 0.22 ug/l
RT: 1.324 min Scan# 28
Delta R.T. -0.000 min
Lab File: VX005059.D
Acq: 05 Oct 2018 10:18

Tgt Ion: 50 Resp: 730
Ion Ratio Lower Upper
50 100
52 30.1 25.8 38.6





#6

Chloroethane

Concen: Below Cal

RT: 1.708 min Scan# 91

Delta R.T. -0.006 min

Lab File: VX005059.D

Acq: 05 Oct 2018 10:18

Instrument :

MSVOA_X

ClientSampleId :

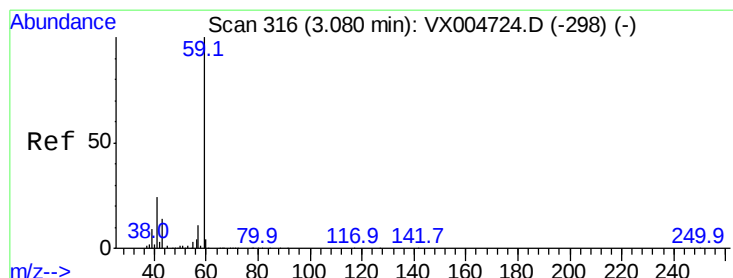
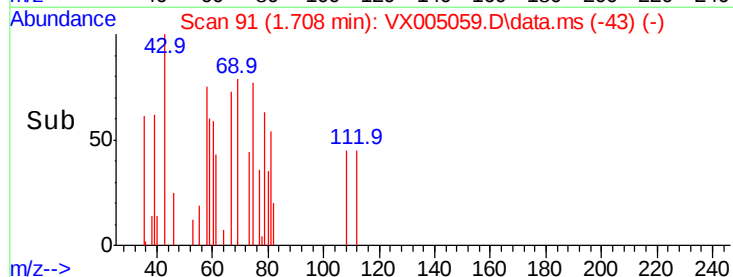
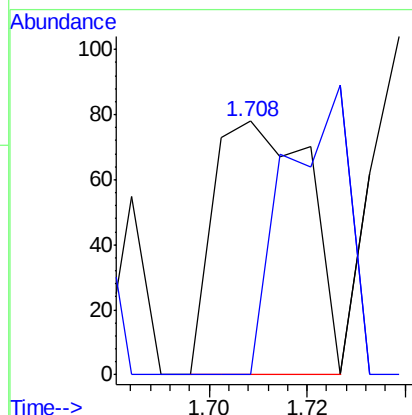
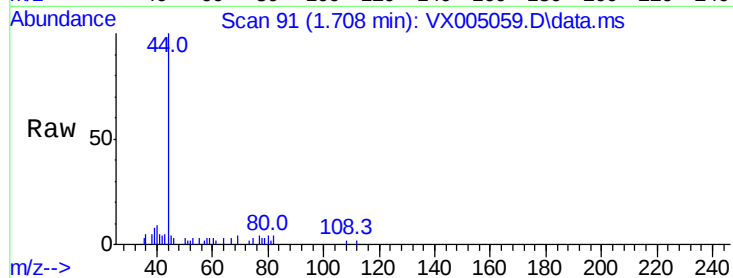
SA-TW512-3135

Tot Ion: 64 Resp: 105

Ion Ratio Lower Upper

64 100

66 0.0 23.8 35.6#



#11

Tert butyl alcohol

Concen: 7.44 ug/l

RT: 3.019 min Scan# 306

Delta R.T. -0.061 min

Lab File: VX005059.D

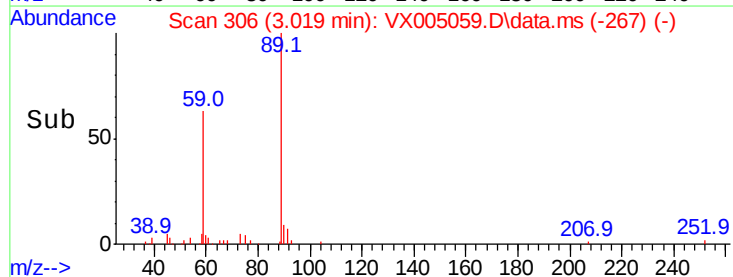
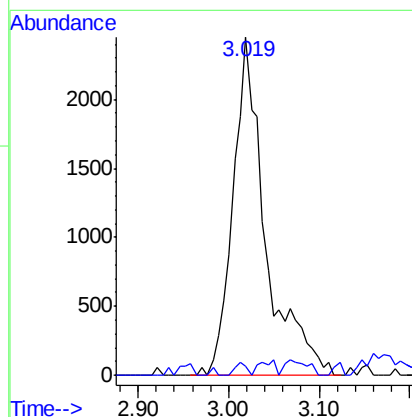
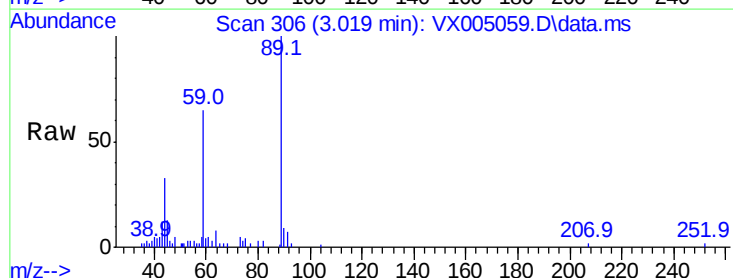
Acq: 05 Oct 2018 10:18

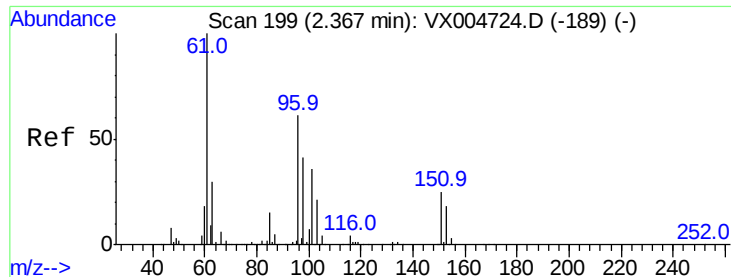
Tgt Ion: 59 Resp: 6092

Ion Ratio Lower Upper

59 100

57 1.3 8.6 12.8#

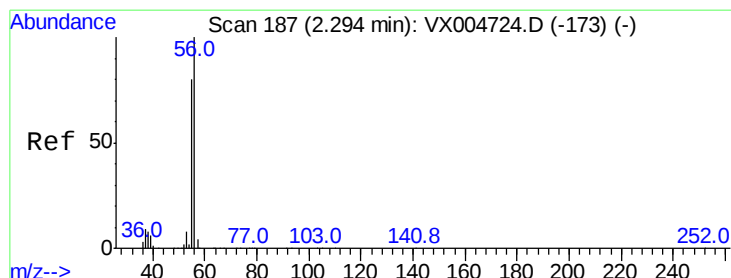
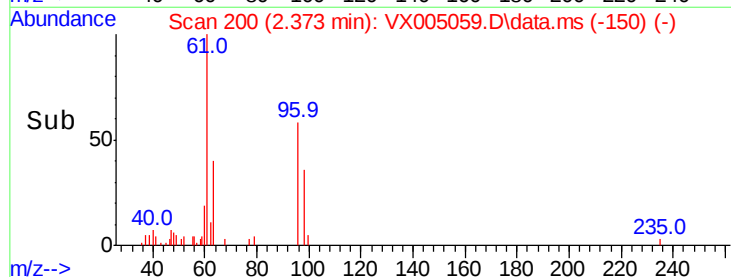
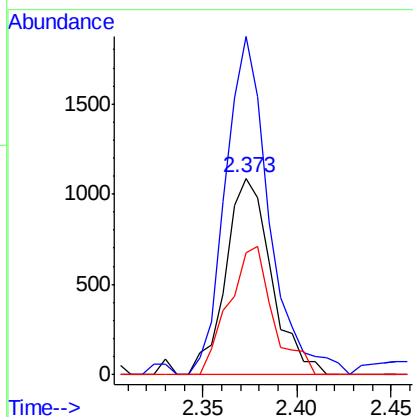
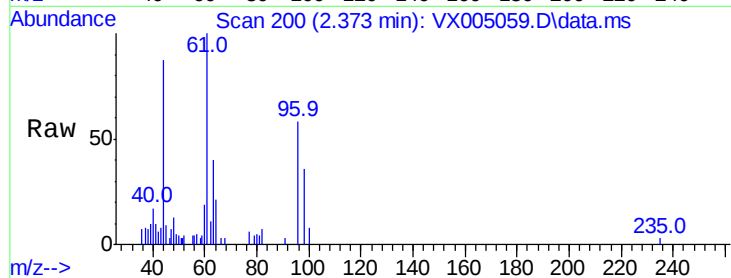




#12
 1,1-Dichloroethene
 Concen: 0.82 ug/l
 RT: 2.373 min Scan# 20
 Delta R.T. 0.006 min
 Lab File: VX005059.D
 Acq: 05 Oct 2018 10:18

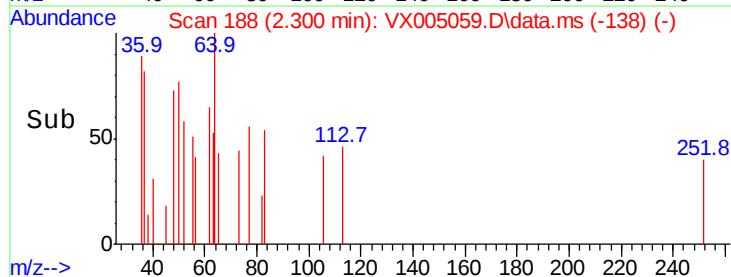
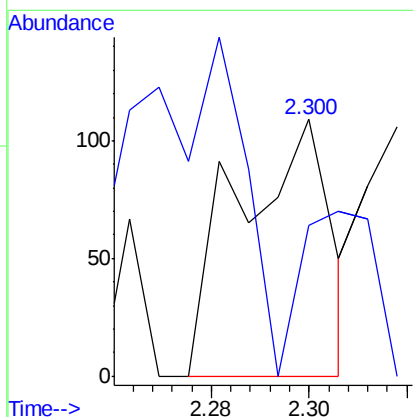
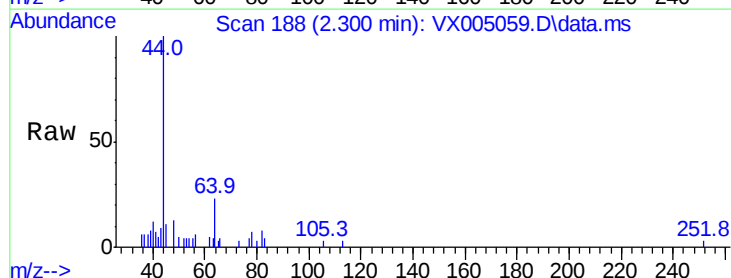
Instrument :
 MSVOA_X
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 SA-TW512-3135

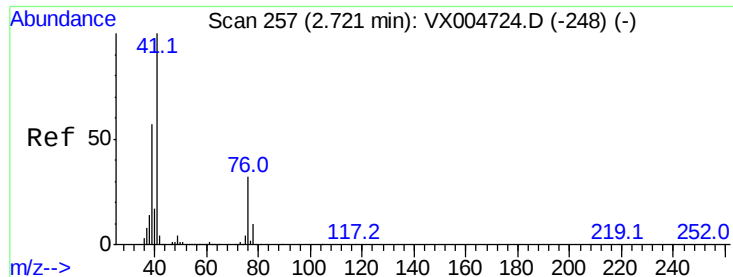
Tot Ion: 96 Resp: 1828
 Ion Ratio Lower Upper
 96 100
 61 172.2 130.2 195.4
 98 62.0 53.4 80.0



#13
 Acrolein
 Concen: 0.25 ug/l
 RT: 2.300 min Scan# 188
 Delta R.T. 0.006 min
 Lab File: VX005059.D
 Acq: 05 Oct 2018 10:18

Tgt Ion: 56 Resp: 143
 Ion Ratio Lower Upper
 56 100
 55 51.7 63.4 95.2#

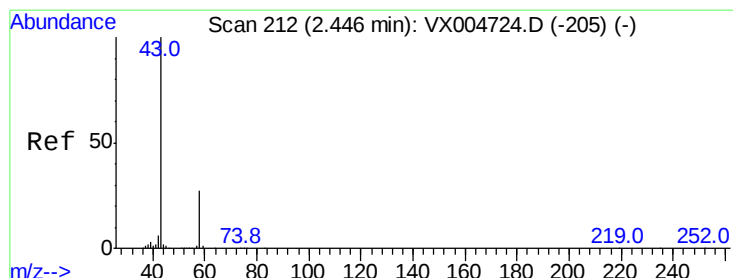
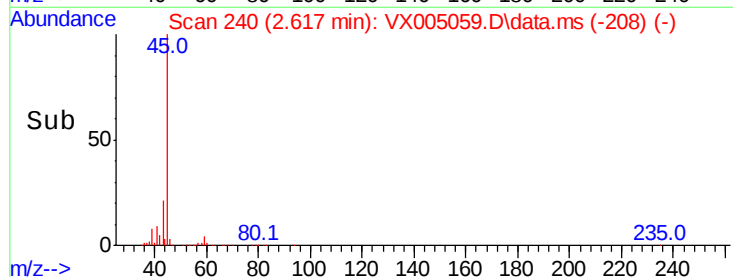
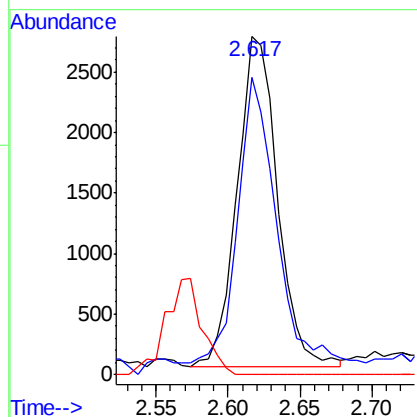
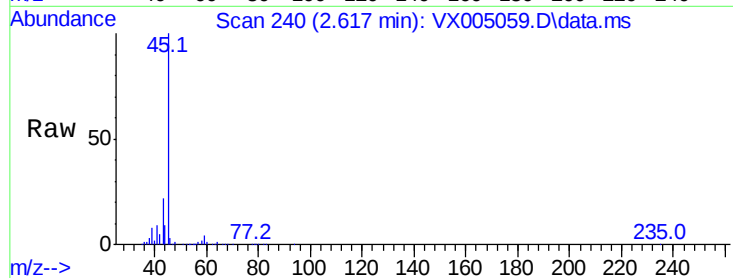




#14
Allvl chloride
Concen: 1.09 ug/l
RT: 2.617 min Scan# 241
Delta R.T. -0.104 min
Lab File: VX005059.D
Acq: 05 Oct 2018 10:18

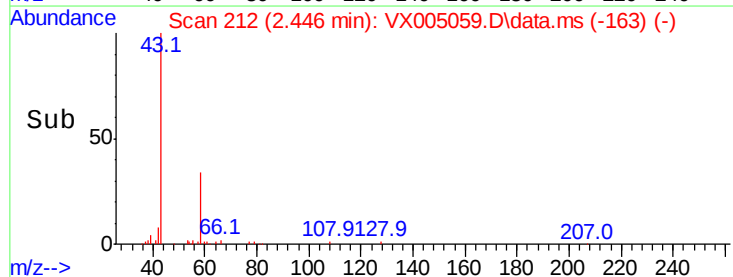
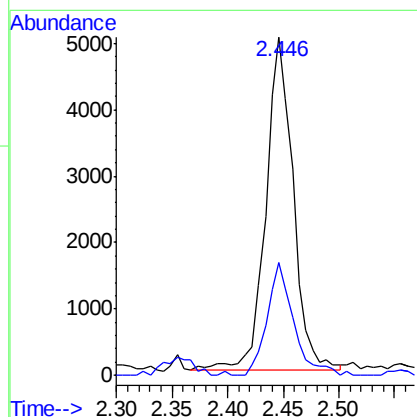
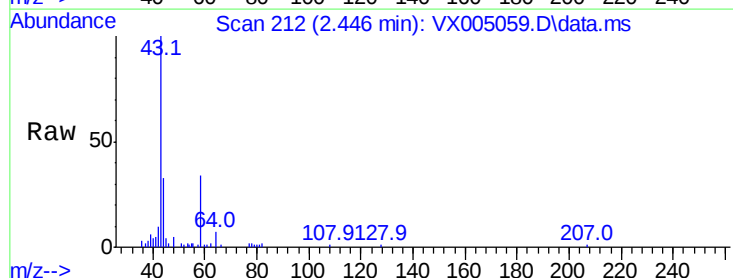
Instrument :
MSVOA_X
ClientSampleId :
SA-TW512-3135

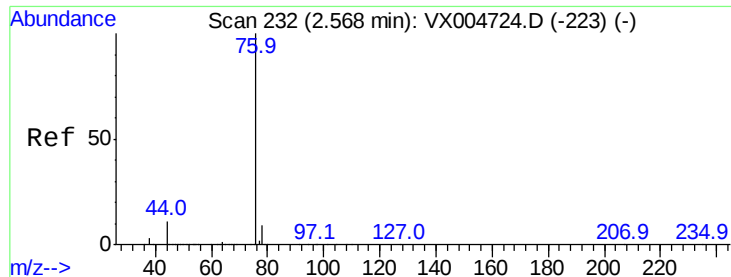
Tot Ion: 41 Resp: 5285
Ion Ratio Lower Upper
41 100
39 81.5 44.1 66.1#
76 0.0 25.0 37.4#



#16
Acetone
Concen: 5.03 ug/l
RT: 2.446 min Scan# 212
Delta R.T. -0.000 min
Lab File: VX005059.D
Acq: 05 Oct 2018 10:18

Tgt Ion: 43 Resp: 8610
Ion Ratio Lower Upper
43 100
58 34.1 21.8 32.6#

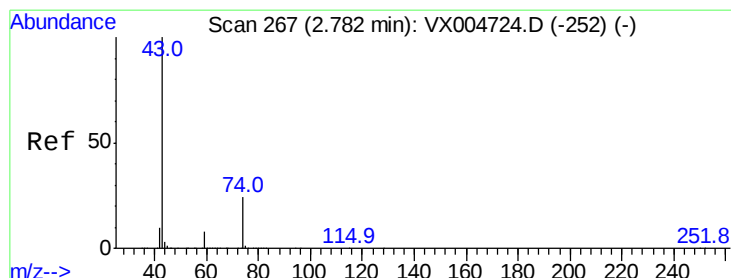
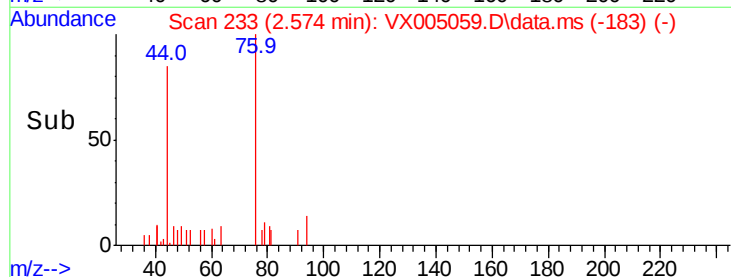
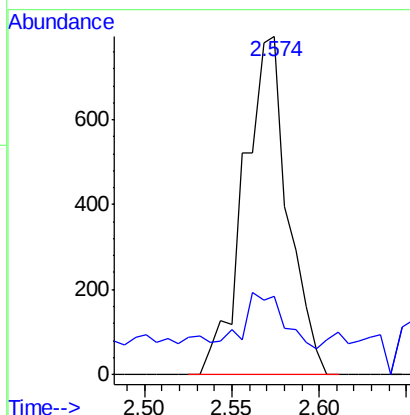
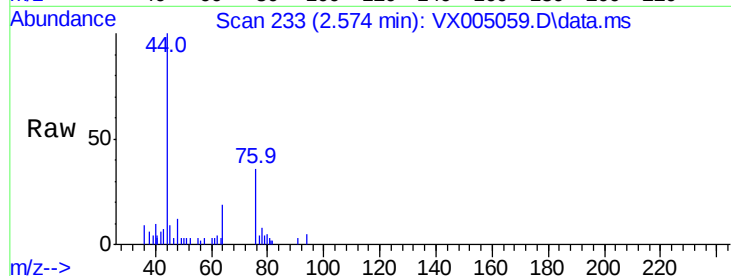




#17
Carbon Disulfide
Concen: 0.21 ug/l
RT: 2.574 min Scan# 231
Delta R.T. 0.006 min
Lab File: VX005059.D
Acq: 05 Oct 2018 10:18

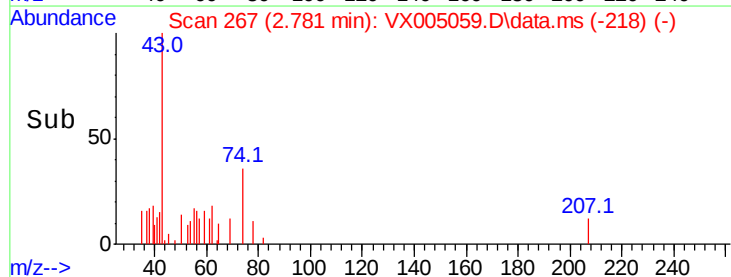
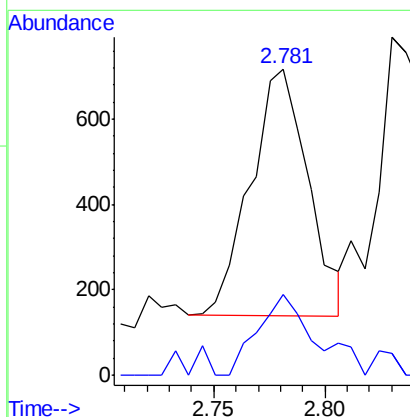
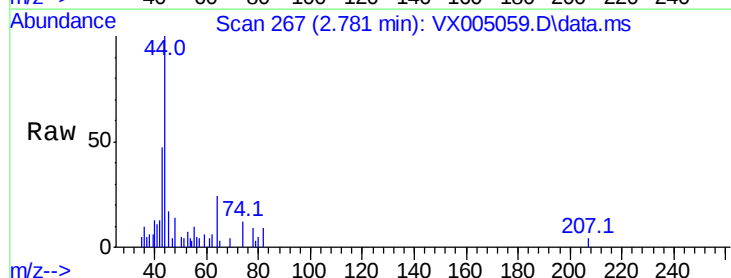
Instrument :
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SA-TW512-3135

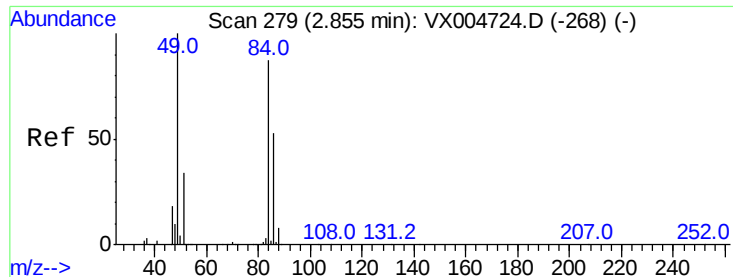
Tot Ion: 76 Resp: 1402
Ion Ratio Lower Upper
76 100
78 12.1 7.0 10.6#



#18
Methyl Acetate
Concen: 0.24 ug/l
RT: 2.781 min Scan# 267
Delta R.T. -0.000 min
Lab File: VX005059.D
Acq: 05 Oct 2018 10:18

Tgt Ion: 43 Resp: 1039
Ion Ratio Lower Upper
43 100
74 32.8 17.8 26.8#

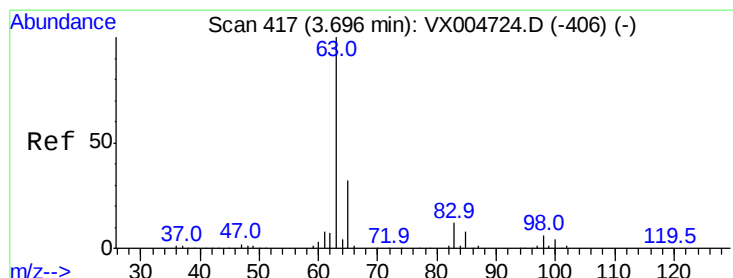
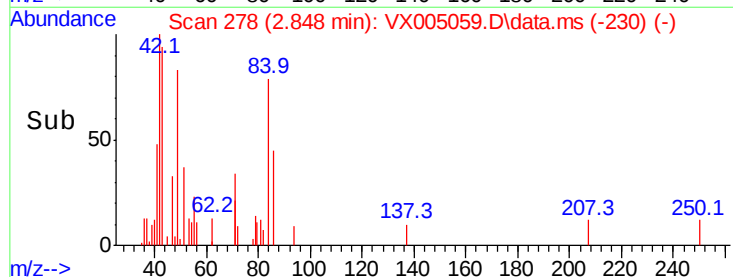
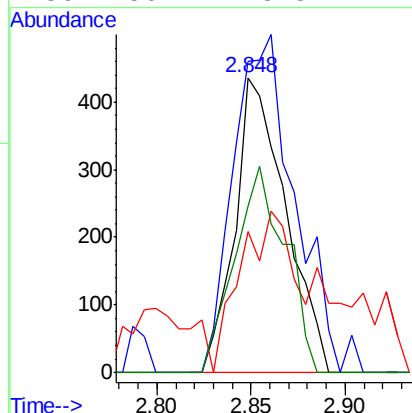
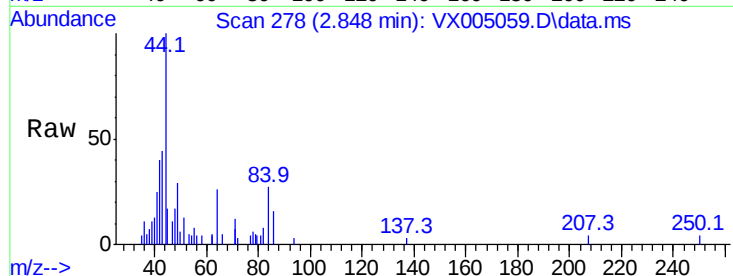




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.848 min Scan# 27
Delta R.T. -0.006 min
Lab File: VX005059.D
Acq: 05 Oct 2018 10:18

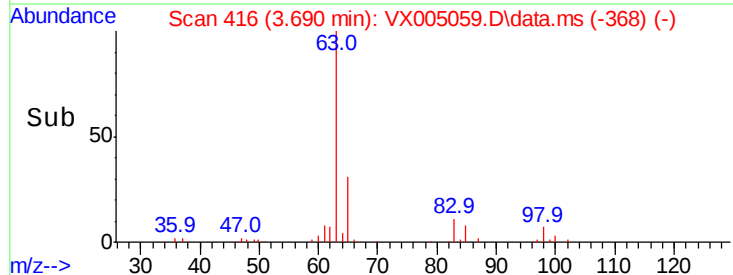
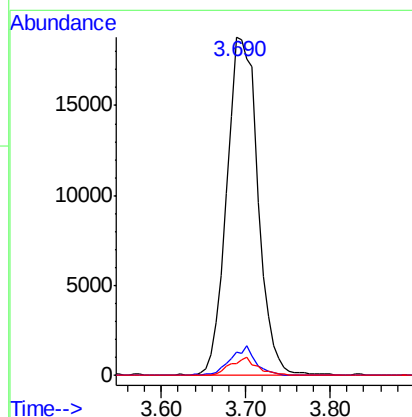
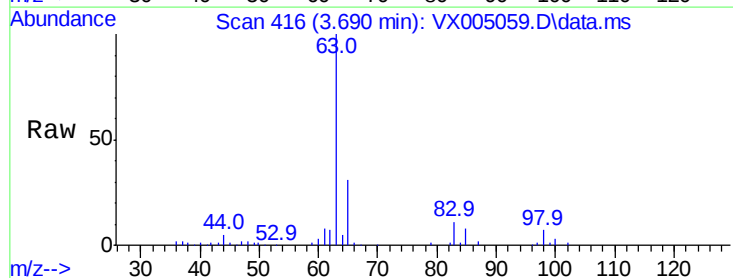
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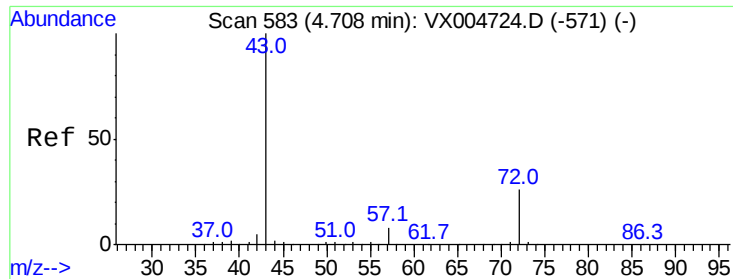
Tot Ion: 84 Resp: 813
Ion Ratio Lower Upper
84 100
49 105.5 92.3 138.5
51 33.0 31.8 47.6
86 56.7 48.5 72.7



#24
1,1-Dichloroethane
Concen: 9.71 ug/l
RT: 3.690 min Scan# 416
Delta R.T. -0.006 min
Lab File: VX005059.D
Acq: 05 Oct 2018 10:18

Tgt Ion: 63 Resp: 47303
Ion Ratio Lower Upper
63 100
98 6.8 3.0 9.2
100 3.4 2.0 5.8





#25

2-Butanone

Concen: 0.41 ug/l

RT: 4.708 min Scan# 58

Delta R.T. -0.000 min

Lab File: VX005059.D

Acq: 05 Oct 2018 10:18

Instrument :

MSVOA_X

ClientSampled :

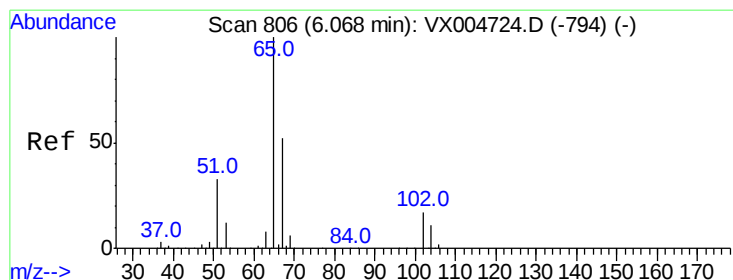
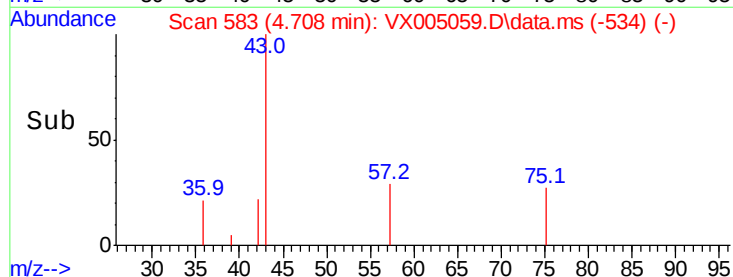
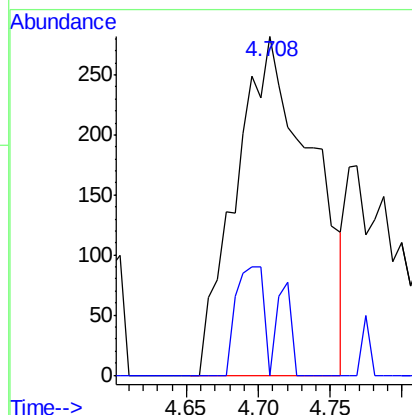
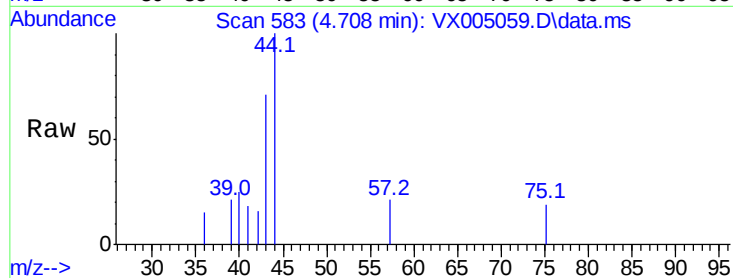
SA-TW512-3135

Tot Ion: 43 Resp: 1036

Ion Ratio Lower Upper

43 100

72 0.0 20.8 31.2#



#33

1,2-Dichloroethane-d4

Concen: 54.97 ug/l

RT: 6.067 min Scan# 806

Delta R.T. -0.000 min

Lab File: VX005059.D

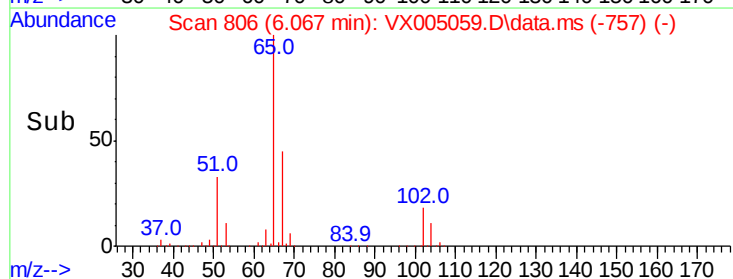
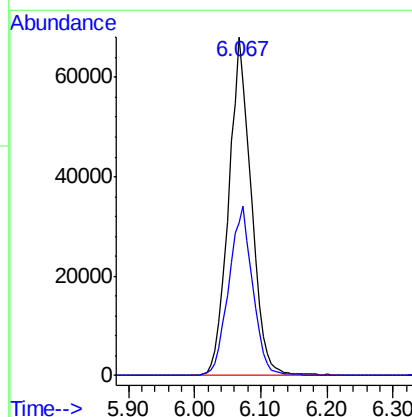
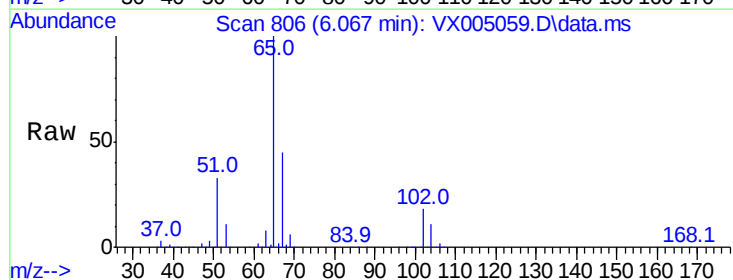
Acq: 05 Oct 2018 10:18

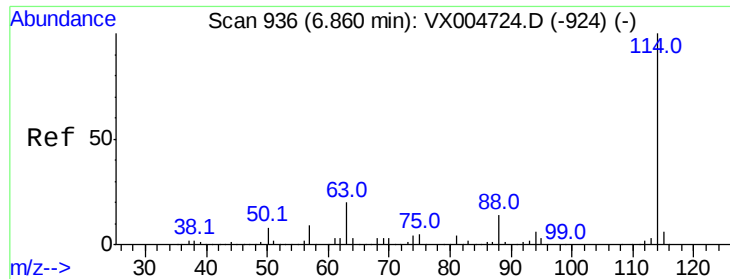
Tgt Ion: 65 Resp: 161037

Ion Ratio Lower Upper

65 100

67 52.5 0.0 107.4

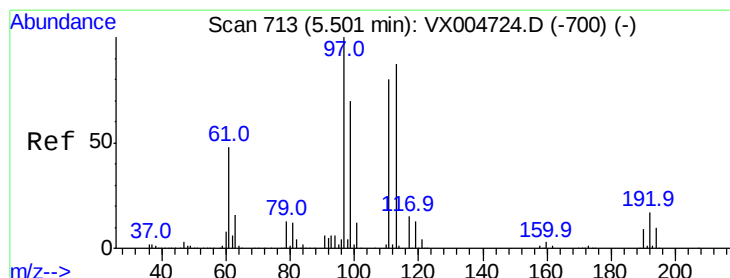
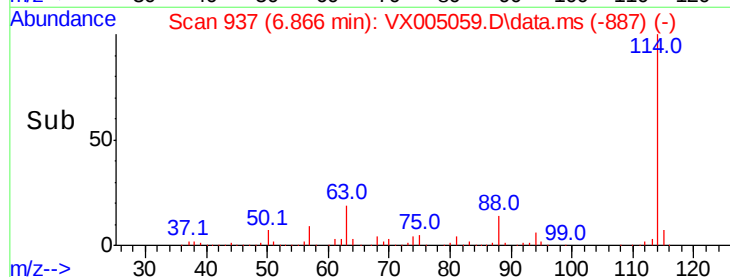
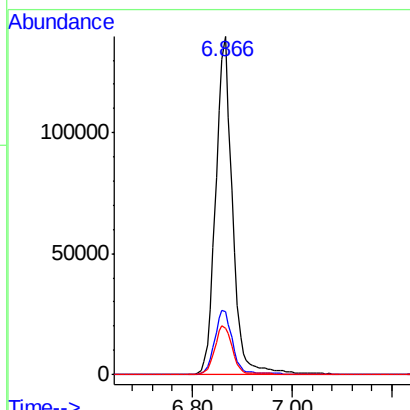
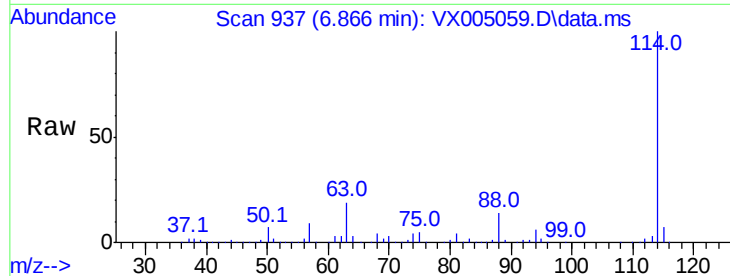




#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.866 min Scan# 936
 Delta R.T. 0.006 min
 Lab File: VX005059.D
 Acq: 05 Oct 2018 10:18

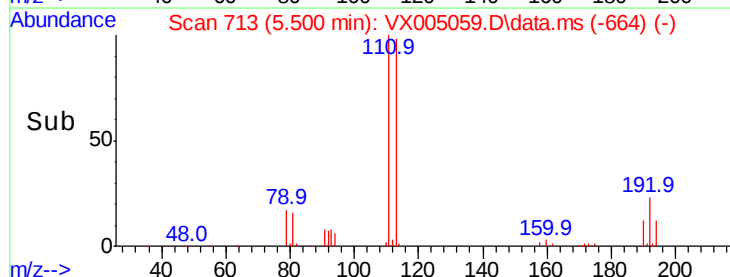
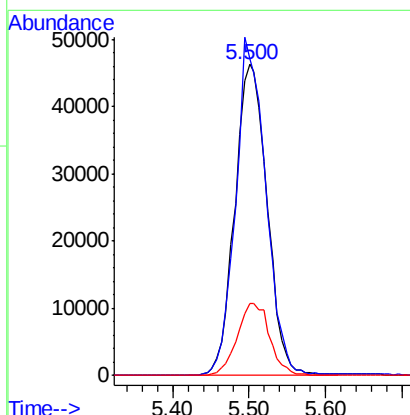
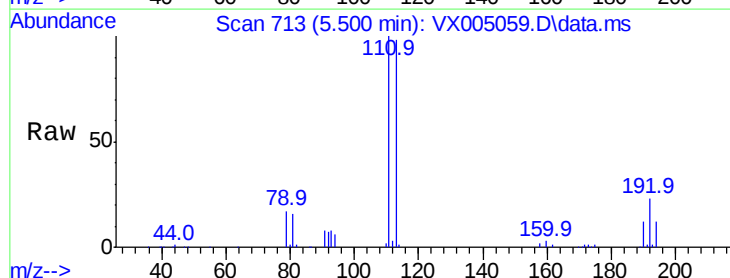
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW512-3135

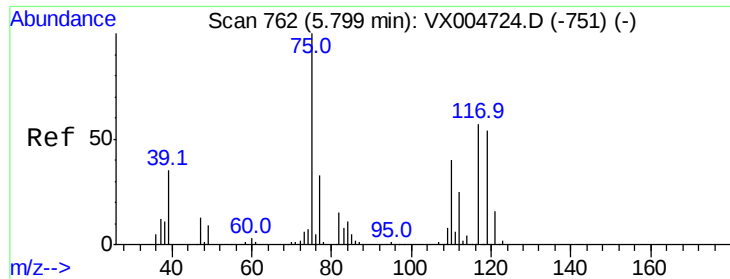
Tot Ion	Ratio	Lower	Upper
114	100		
63	18.6	0.0	39.8
88	13.6	0.0	27.0



#35
 Dibromofluoromethane
 Concen: 48.94 ug/l
 RT: 5.500 min Scan# 713
 Delta R.T. -0.000 min
 Lab File: VX005059.D
 Acq: 05 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.3	77.0	115.4
192	23.1	17.0	25.6

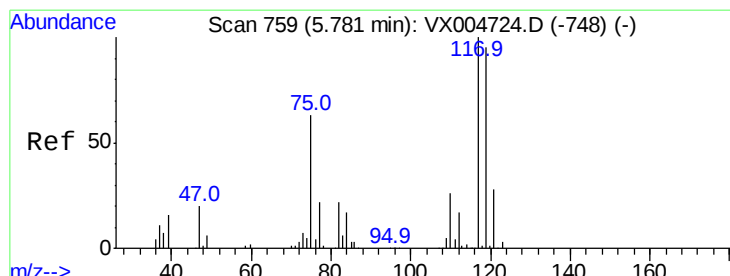
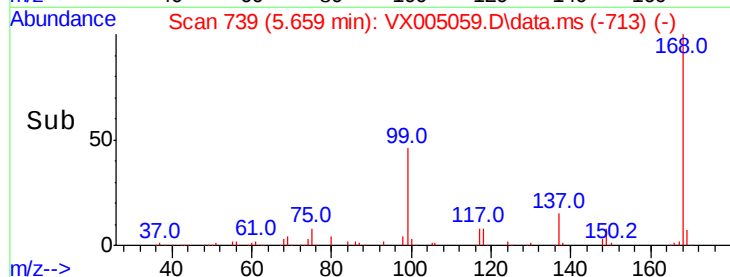
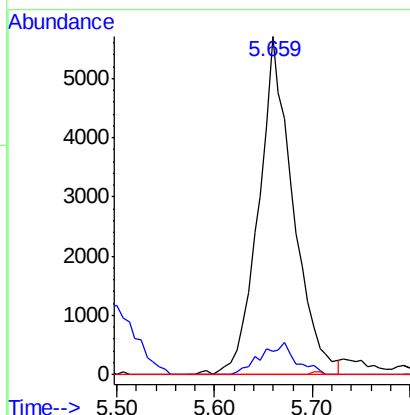
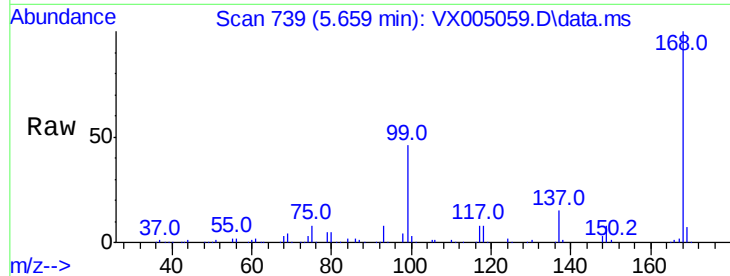




#36
 1,1-Dichloropropene
 Concen: 3.70 ug/l
 RT: 5.659 min Scan# 731
 Delta R.T. -0.140 min
 Lab File: VX005059.D
 Acq: 05 Oct 2018 10:18

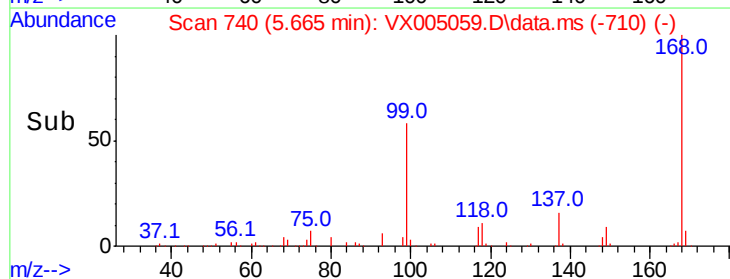
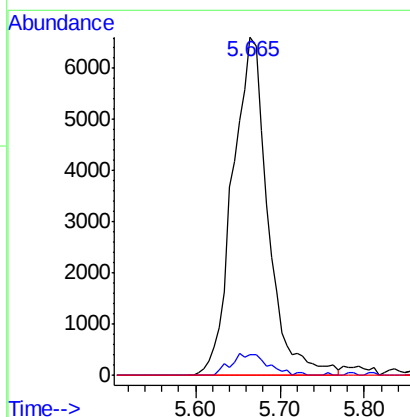
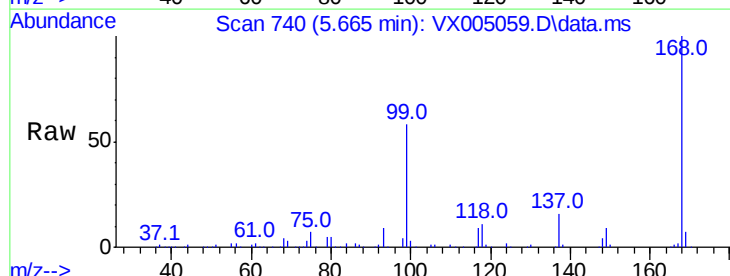
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW512-3135

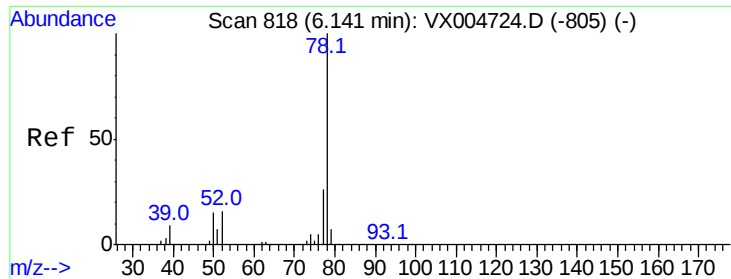
Tot Ion: 75 Resp: 13971
 Ion Ratio Lower Upper
 75 100
 110 9.5 20.0 59.9#
 77 0.0 27.1 40.7#



#38
 Carbon Tetrachloride
 Concen: 4.71 ug/l
 RT: 5.665 min Scan# 740
 Delta R.T. -0.116 min
 Lab File: VX005059.D
 Acq: 05 Oct 2018 10:18

Tgt Ion: 117 Resp: 18681
 Ion Ratio Lower Upper
 117 100
 119 6.2 75.2 112.8#
 121 0.0 22.5 33.7#





#40

Benzene

Concen: 0.69 ug/l

RT: 6.141 min Scan# 81

Delta R.T. -0.000 min

Lab File: VX005059.D

Acq: 05 Oct 2018 10:18

Instrument :

MSVOA_X

ClientSampleId :

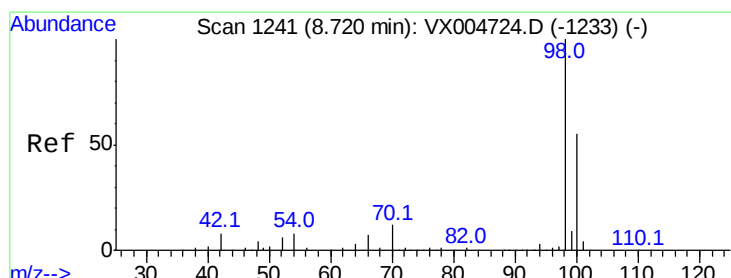
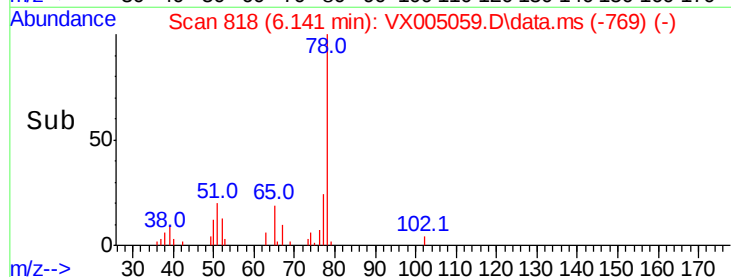
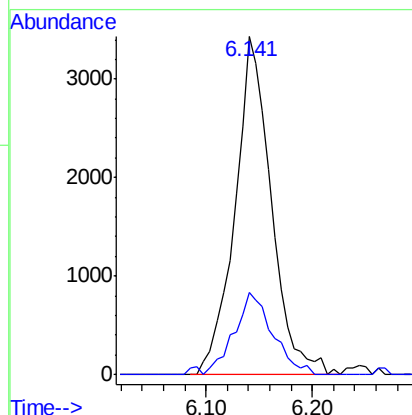
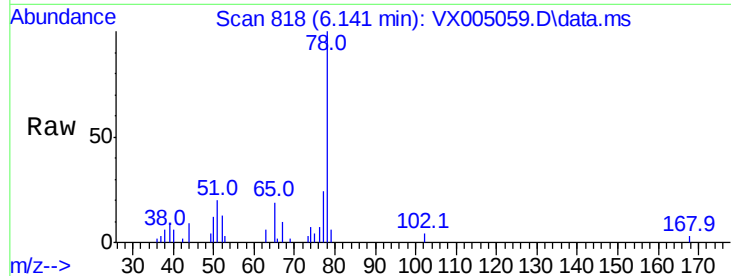
SA-TW512-3135

Tot Ion: 78 Resp: 8182

Ion Ratio Lower Upper

78 100

77 24.1 21.0 31.4



#50

Toluene-d8

Concen: 51.18 ug/l

RT: 8.719 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX005059.D

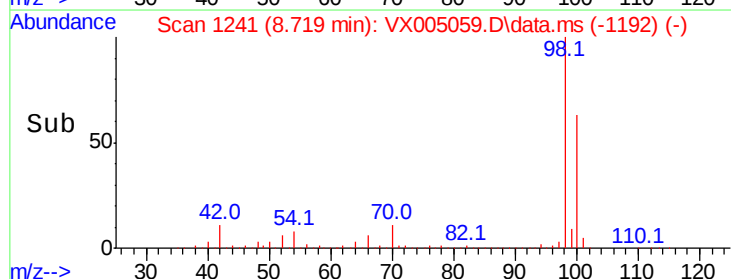
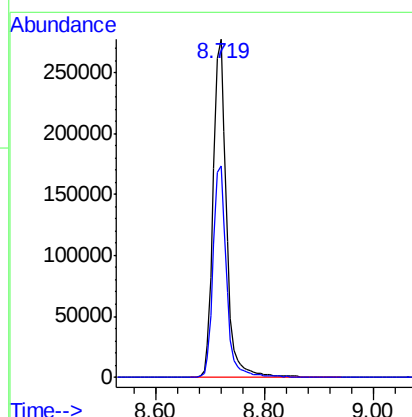
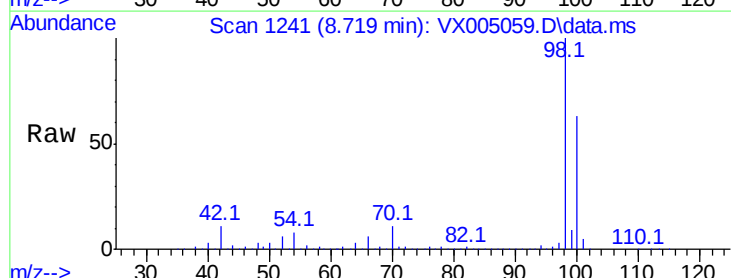
Acq: 05 Oct 2018 10:18

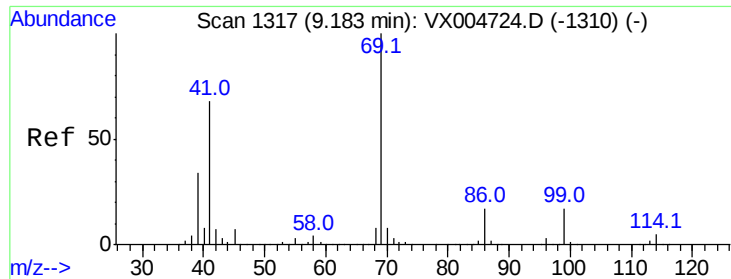
Tgt Ion: 98 Resp: 470825

Ion Ratio Lower Upper

98 100

100 62.8 51.9 77.9





#56

Ethyl methacrylate

Concen: 2.89 ug/l

RT: 9.225 min Scan# 1317

Delta R.T. 0.043 min

Lab File: VX005059.D

Acq: 05 Oct 2018 10:18

Instrument :

MSVOA_X

ClientSampled :

SA-TW512-3135

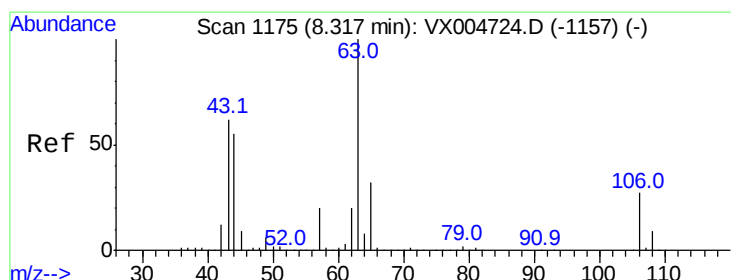
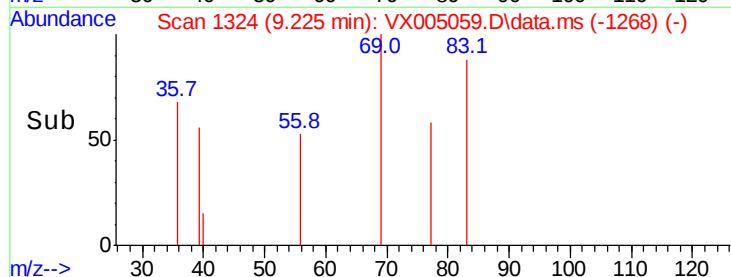
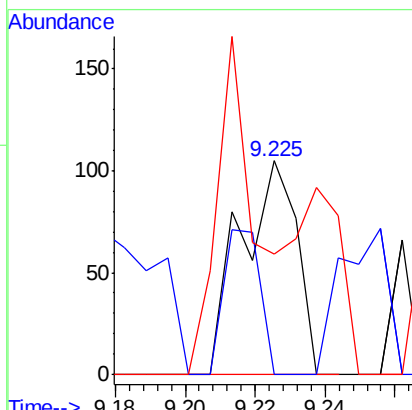
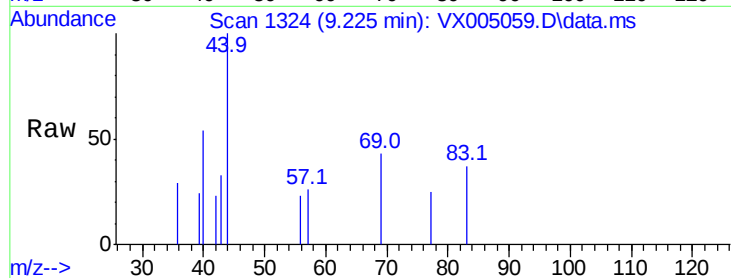
Tot Ion: 69 Resp: 116

Ion Ratio Lower Upper

69 100

41 44.8 56.9 85.3#

39 107.8 28.4 42.6#



#58

2-Chloroethyl Vinyl ether

Concen: 14.25 ug/l

RT: 8.439 min Scan# 1195

Delta R.T. 0.122 min

Lab File: VX005059.D

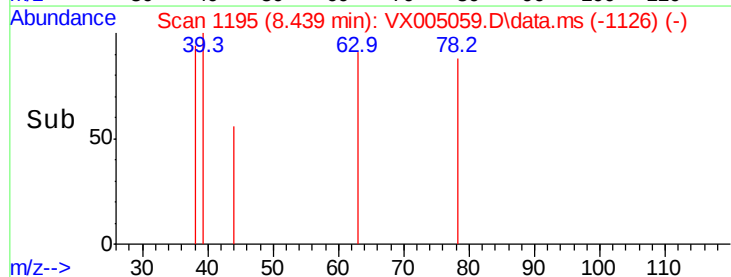
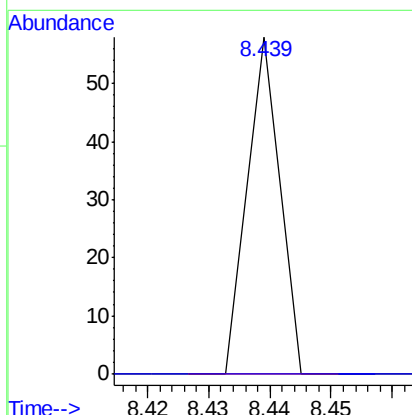
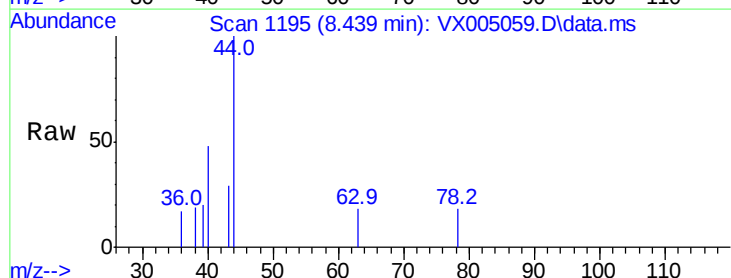
Acq: 05 Oct 2018 10:18

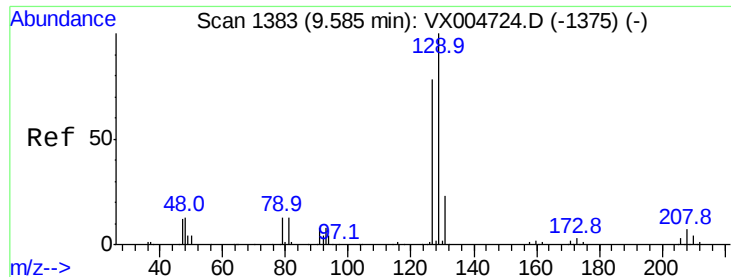
Tgt Ion: 63 Resp: 21

Ion Ratio Lower Upper

63 100

106 0.0 21.0 31.6#





#60

Dibromochloromethane

Concen: 0.48 ug/l

RT: 9.335 min Scan# 1383

Delta R.T. -0.250 min

Lab File: VX005059.D

Acq: 05 Oct 2018 10:18

Instrument :

MSVOA_X

ClientSampleId :

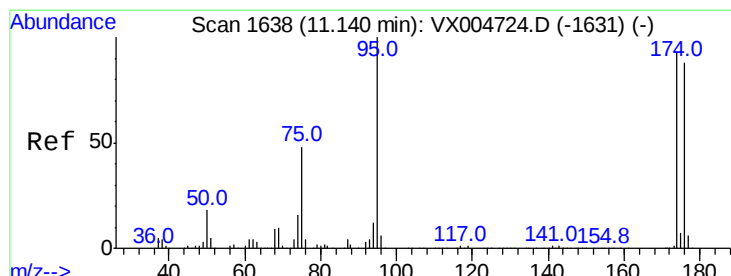
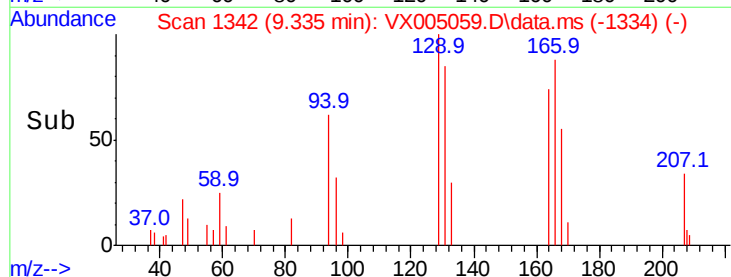
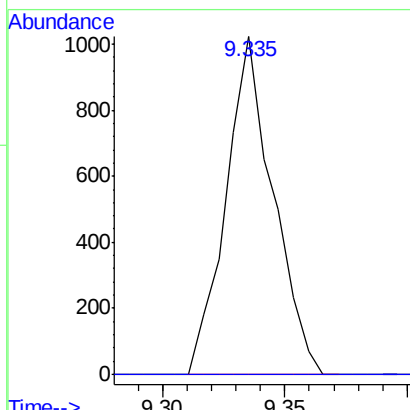
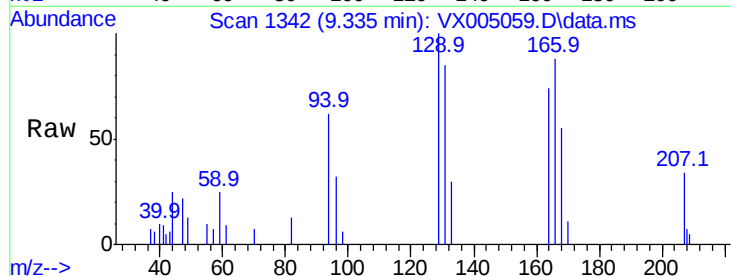
SA-TW512-3135

Tot Ion:129 Resp: 1369

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.2#



#62

4-Bromofluorobenzene

Concen: 50.24 ug/l

RT: 11.140 min Scan# 1638

Delta R.T. -0.000 min

Lab File: VX005059.D

Acq: 05 Oct 2018 10:18

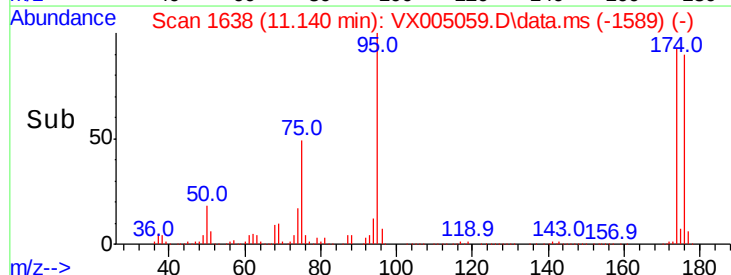
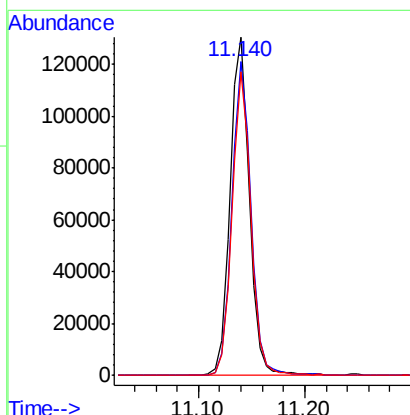
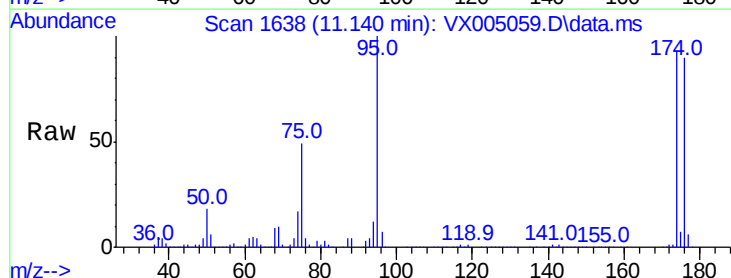
Tgt Ion: 95 Resp: 166490

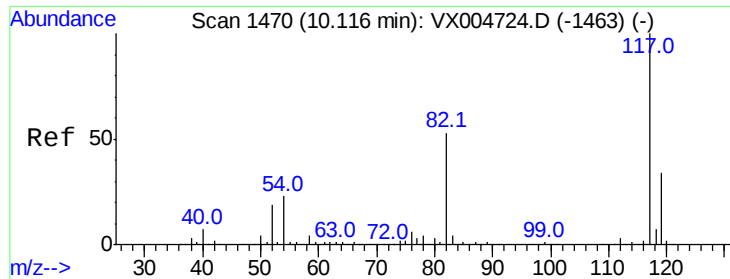
Ion Ratio Lower Upper

95 100

174 91.7 0.0 185.0

176 87.5 0.0 180.2

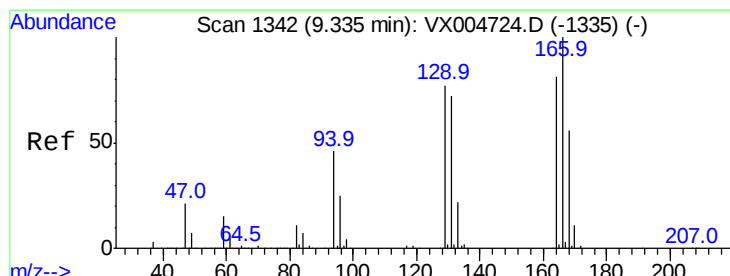
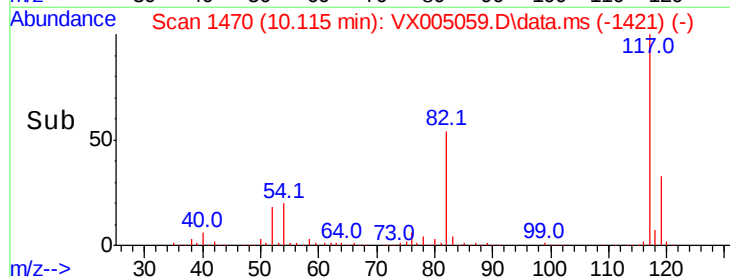
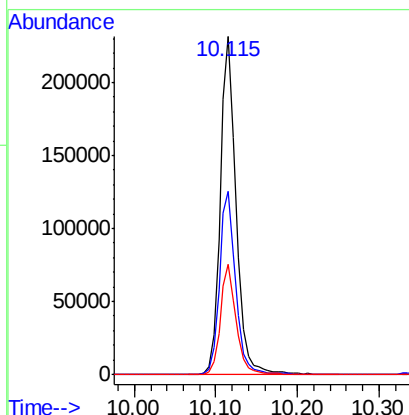
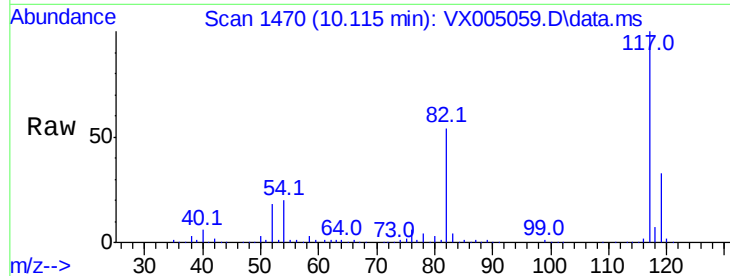




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.115 min Scan# 1470
Delta R.T. -0.000 min
Lab File: VX005059.D
Acq: 05 Oct 2018 10:18

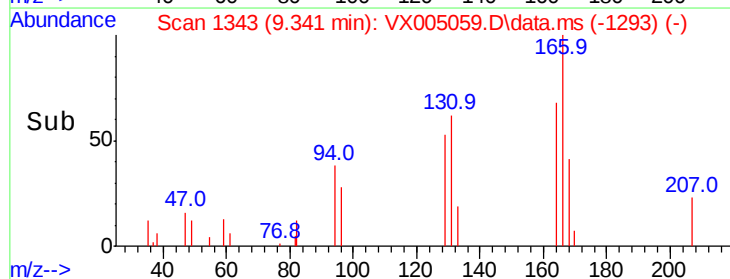
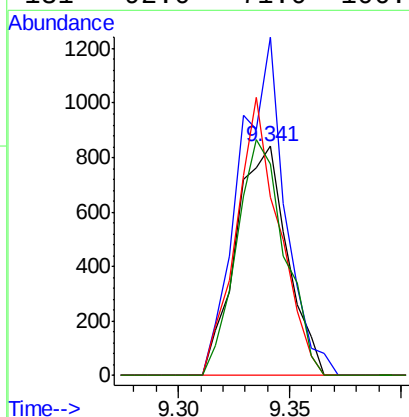
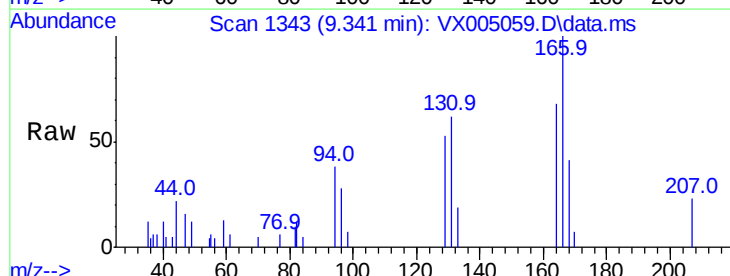
Instrument :
MSVOA_X
ClientSampleId :
SA-TW512-3135

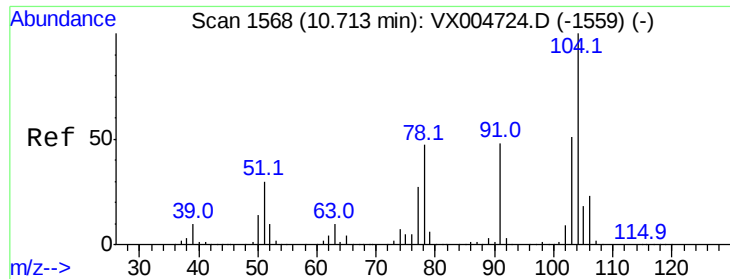
Tot Ion:117 Resp: 314540
Ion Ratio Lower Upper
117 100
82 54.4 42.2 63.4
119 32.6 27.4 41.0



#64
Tetrachloroethene
Concen: 0.44 ug/l
RT: 9.341 min Scan# 1343
Delta R.T. 0.006 min
Lab File: VX005059.D
Acq: 05 Oct 2018 10:18

Tgt Ion:164 Resp: 1363
Ion Ratio Lower Upper
164 100
166 147.5 98.4 147.6
129 77.6 76.1 114.1
131 92.0 71.0 106.4





#70

Stvrene

Concen: 2.14 ug/l

RT: 10.707 min Scan# 15

Delta R.T. -0.006 min

Lab File: VX005059.D

Acq: 05 Oct 2018 10:18

Instrument :

MSVOA_X

ClientSampleId :

SA-TW512-3135

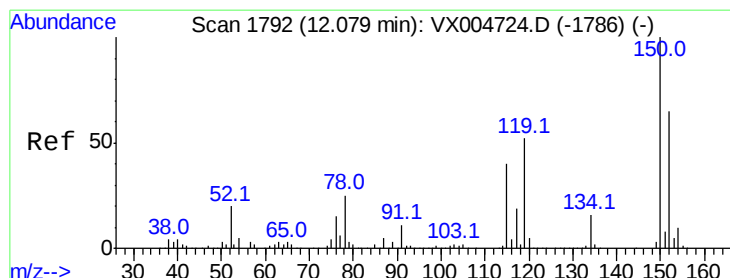
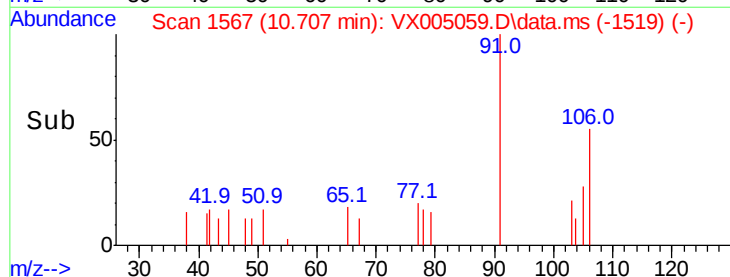
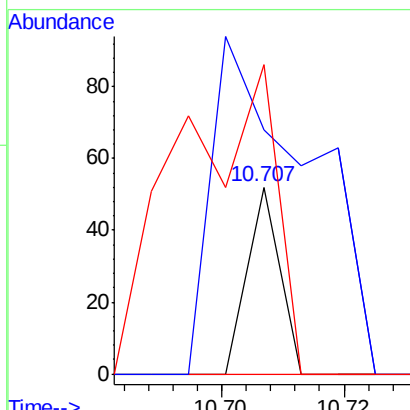
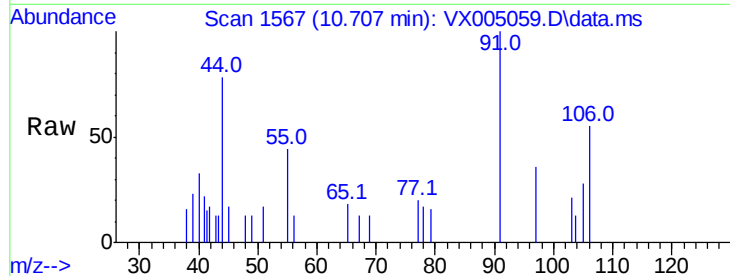
Tot Ion:104 Resp: 19

Ion Ratio Lower Upper

104 100

78 547.4 40.0 60.0#

103 500.0 44.3 66.5#



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.079 min Scan# 1792

Delta R.T. -0.000 min

Lab File: VX005059.D

Acq: 05 Oct 2018 10:18

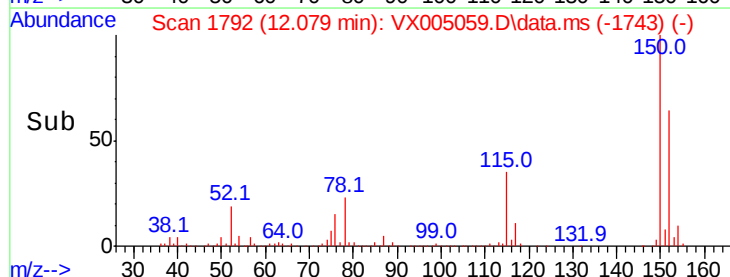
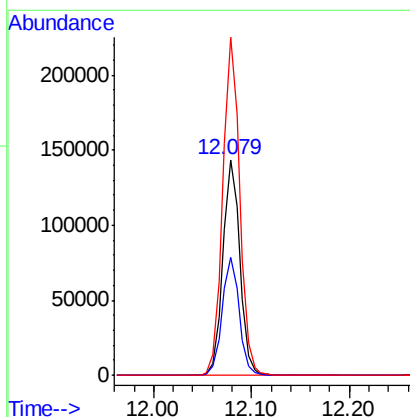
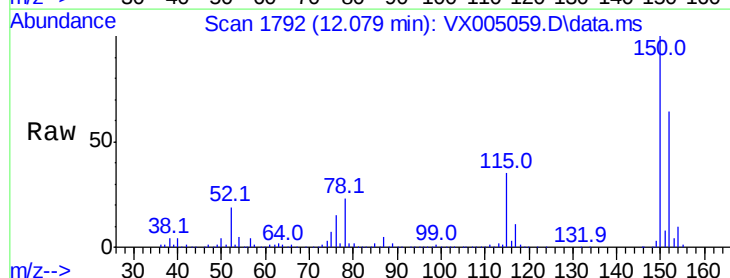
Tgt Ion:152 Resp: 172569

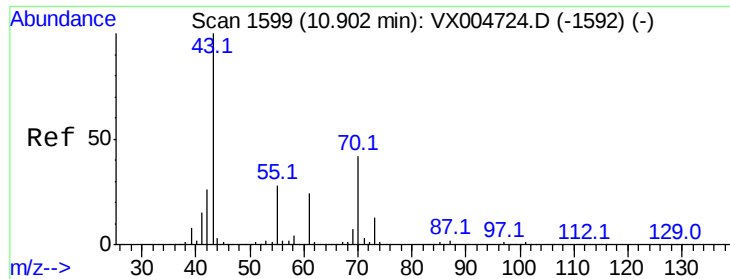
Ion Ratio Lower Upper

152 100

115 54.7 40.2 120.6

150 156.6 0.0 351.0





#74

N-amvl acetate

Concen: 1.76 ug/l

RT: 10.890 min Scan# 15

Delta R.T. -0.012 min

Lab File: VX005059.D

Acq: 05 Oct 2018 10:18

Instrument :

MSVOA_X

ClientSampleId :

SA-TW512-3135

Tot Ion: 43 Resp: 90

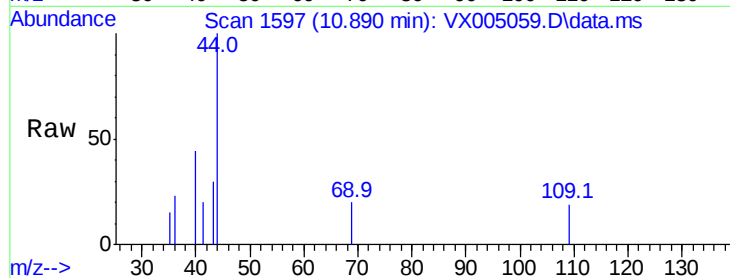
Ion Ratio Lower Upper

43 100

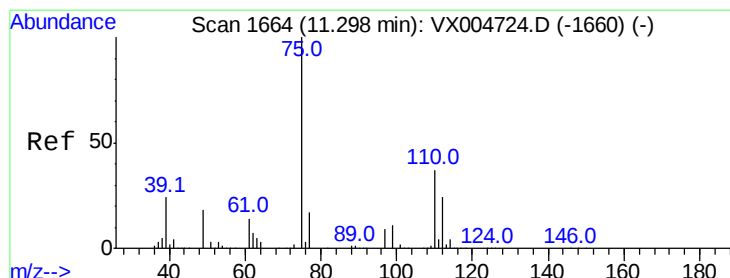
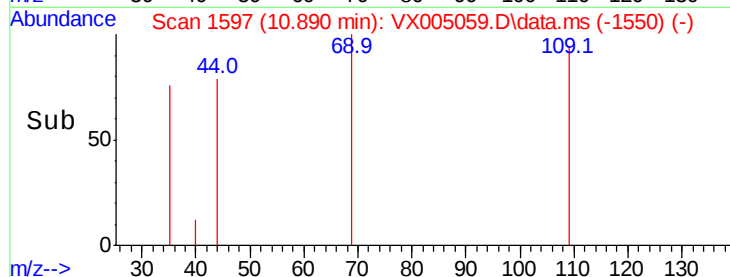
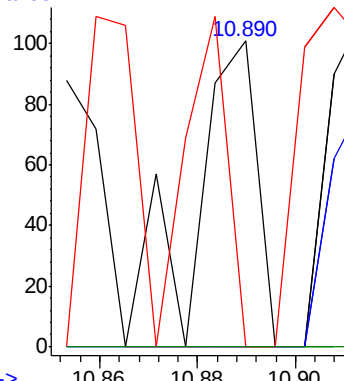
70 0.0 32.6 48.8#

55 72.2 21.6 32.4#

61 0.0 19.1 28.7#



Abundance



#76

1,2,3-Trichloropropane

Concen: 21.24 ug/l

RT: 11.140 min Scan# 1638

Delta R.T. -0.159 min

Lab File: VX005059.D

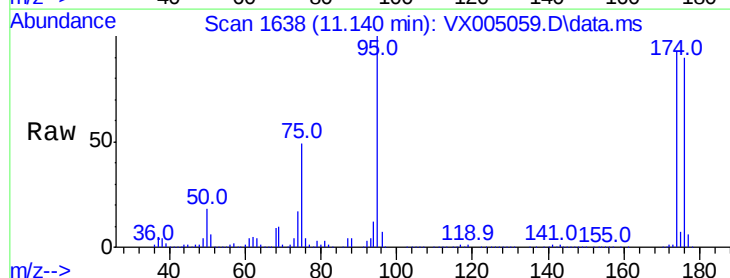
Acq: 05 Oct 2018 10:18

Tgt Ion: 75 Resp: 82166

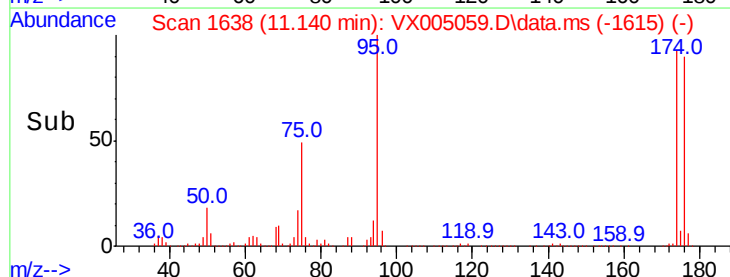
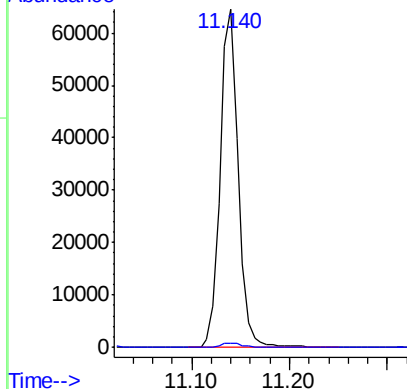
Ion Ratio Lower Upper

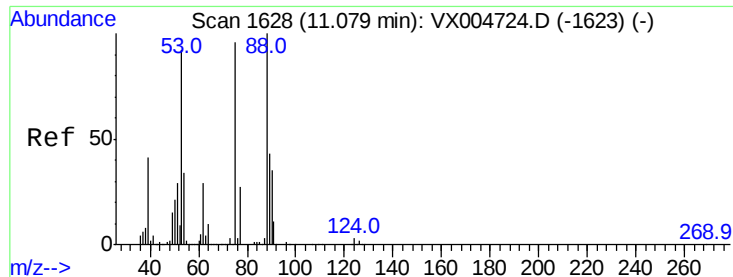
75 100

77 1.5 21.4 64.3#



Abundance





#81

trans-1,4-Dichloro-2-butene

Concen: 57.62 ug/l

RT: 11.140 min Scan# 16

Delta R.T. 0.061 min

Lab File: VX005059.D

Acq: 05 Oct 2018 10:18

Instrument :

MSVOA_X

ClientSampleId :

SA-TW512-3135

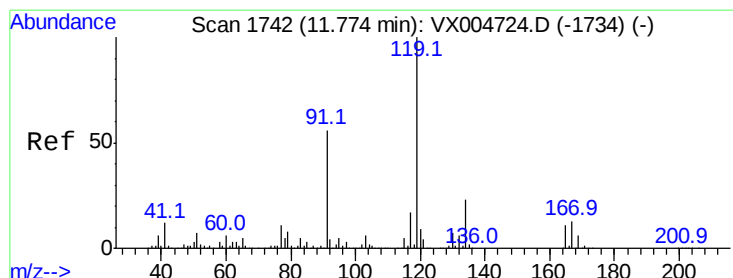
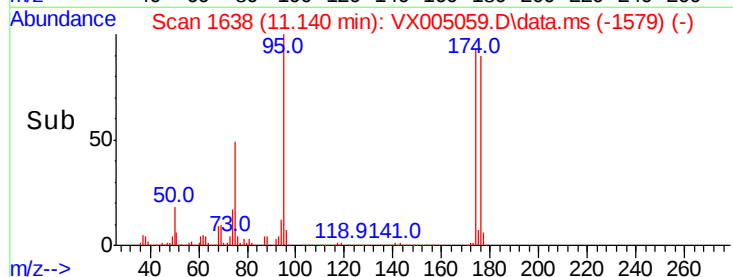
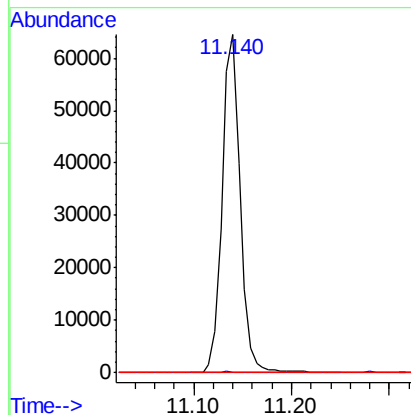
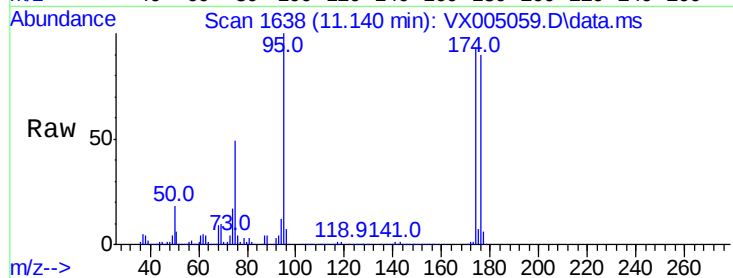
Tot Ion: 75 Resp: 82166

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.4#

89 0.1 37.1 55.7#



#83

tert-Butylbenzene

Concen: 0.46 ug/l

RT: 11.768 min Scan# 1741

Delta R.T. -0.006 min

Lab File: VX005059.D

Acq: 05 Oct 2018 10:18

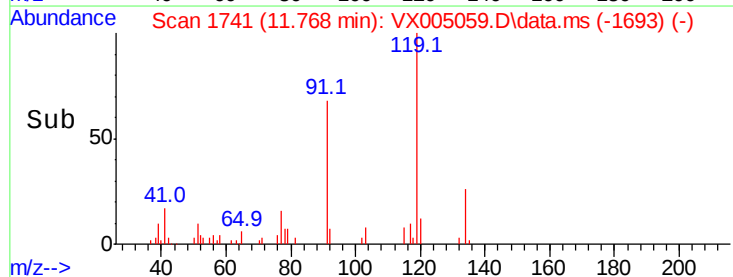
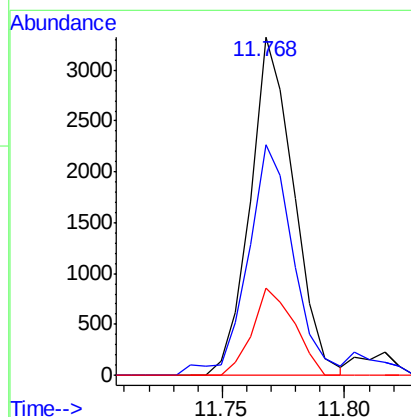
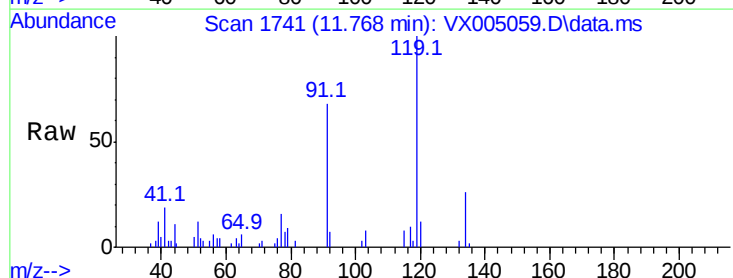
Tgt Ion: 119 Resp: 4129

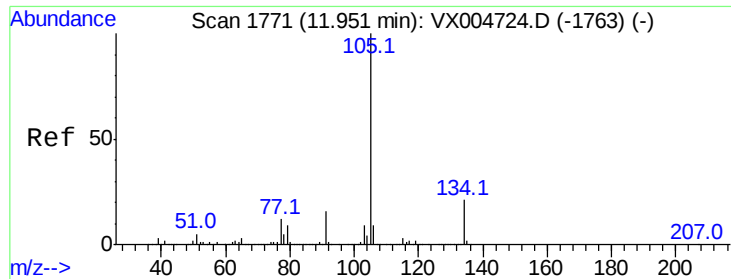
Ion Ratio Lower Upper

119 100

91 71.3 27.5 82.5

134 24.9 11.5 34.4

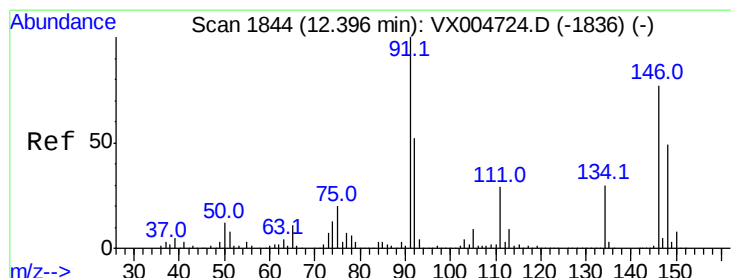
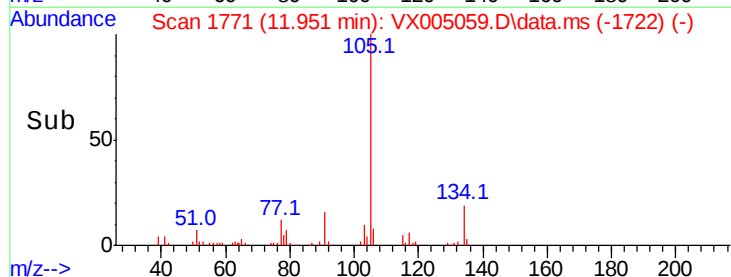
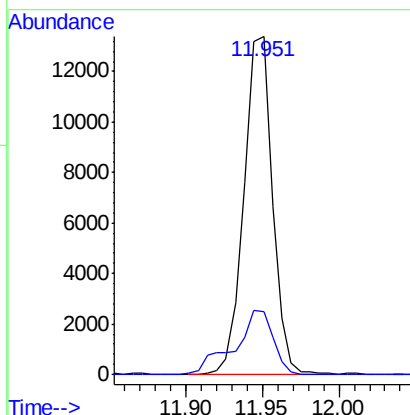
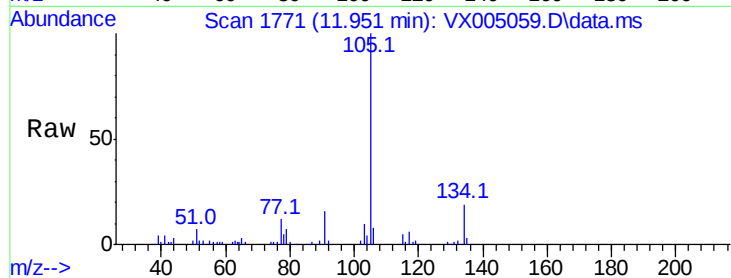




#85
 sec-Butylbenzene
 Concen: 1.59 ug/l
 RT: 11.951 min Scan# 1771
 Delta R.T. -0.000 min
 Lab File: VX005059.D
 Acq: 05 Oct 2018 10:18

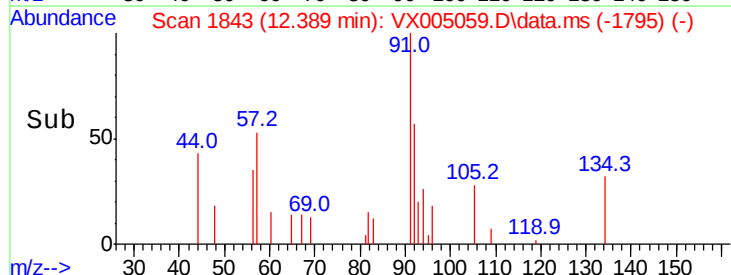
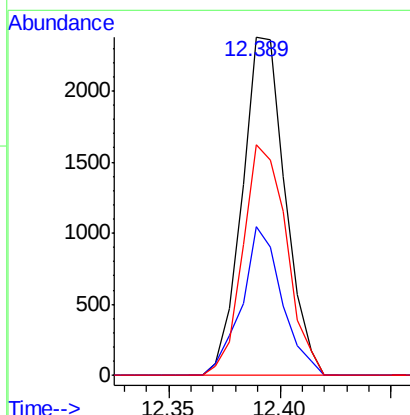
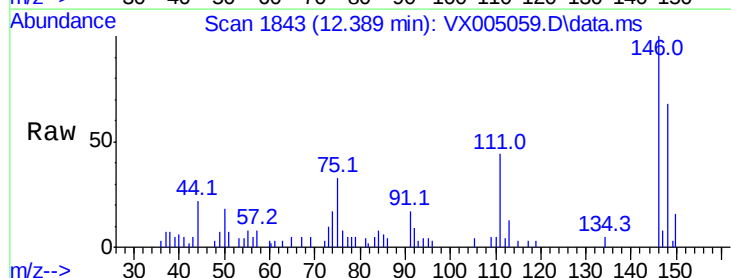
Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW512-3135

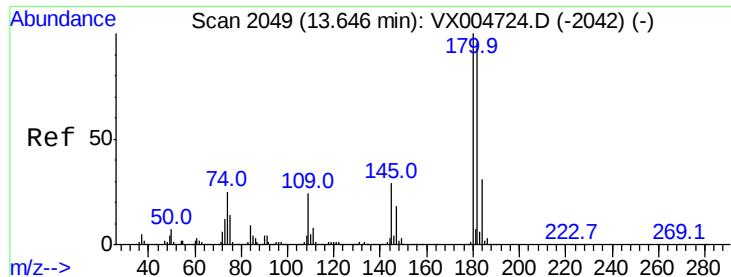
Tot Ion:105 Resp: 17386
 Ion Ratio Lower Upper
 105 100
 134 25.8 10.2 30.4



#91
 1,2-Dichlorobenzene
 Concen: 0.52 ug/l
 RT: 12.389 min Scan# 1843
 Delta R.T. -0.006 min
 Lab File: VX005059.D
 Acq: 05 Oct 2018 10:18

Tgt Ion:146 Resp: 3212
 Ion Ratio Lower Upper
 146 100
 111 41.1 19.6 58.7
 148 69.1 31.8 95.4

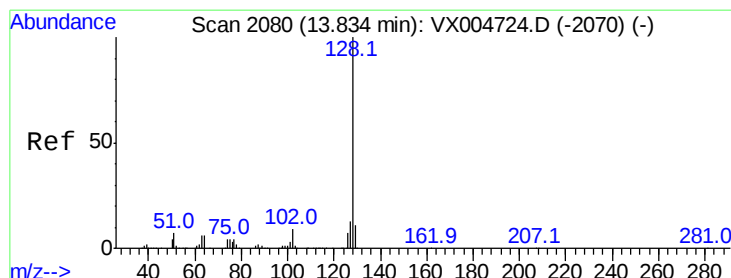
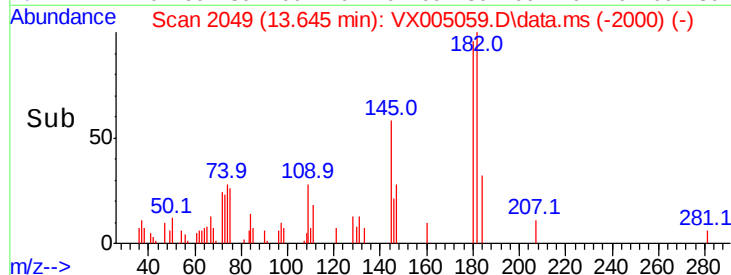
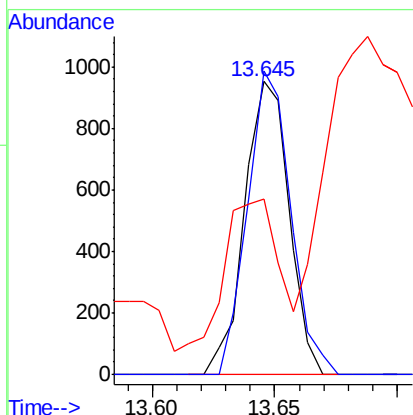
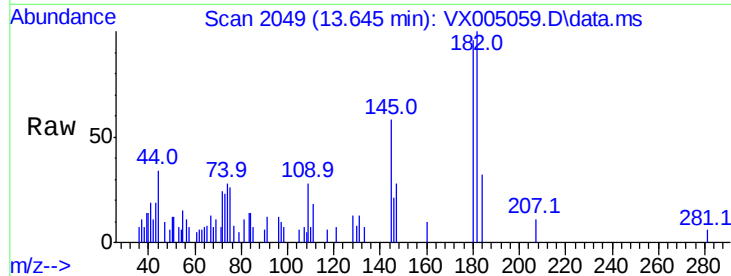




#93
 1,2,4-Trichlorobenzene
 Concen: 0.28 ug/l
 RT: 13.645 min Scan# 2049
 Delta R.T. -0.000 min
 Lab File: VX005059.D
 Acq: 05 Oct 2018 10:18

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW512-3135

Tot Ion	Ratio	Lower	Upper
180	100		
182	100.7	47.8	143.4
145	78.1	14.1	42.4#



#95
 Naphthalene
 Concen: 0.84 ug/l
 RT: 13.834 min Scan# 2080
 Delta R.T. -0.000 min
 Lab File: VX005059.D
 Acq: 05 Oct 2018 10:18

Tgt Ion	Ratio	Lower	Upper
128	100		
127	20.1	10.4	15.6#
129	23.6	8.7	13.1#

