

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052219\
 Data File : VX009811.D
 Acq On : 22 May 2019 17:54
 Operator : JC/SP
 Sample : K2977-11 40X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 EP1-PZ-E1-6

Quant Time: May 23 07:18:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	176495	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	280603	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	252654	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	111456	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	119093	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
35) Dibromofluoromethane	5.50	113	86443	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
50) Toluene-d8	8.71	98	356100	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
62) 4-Bromofluorobenzene	11.13	95	122629	47.39	ug/l	0.00
Spiked Amount			Recovery	=	94.78%	

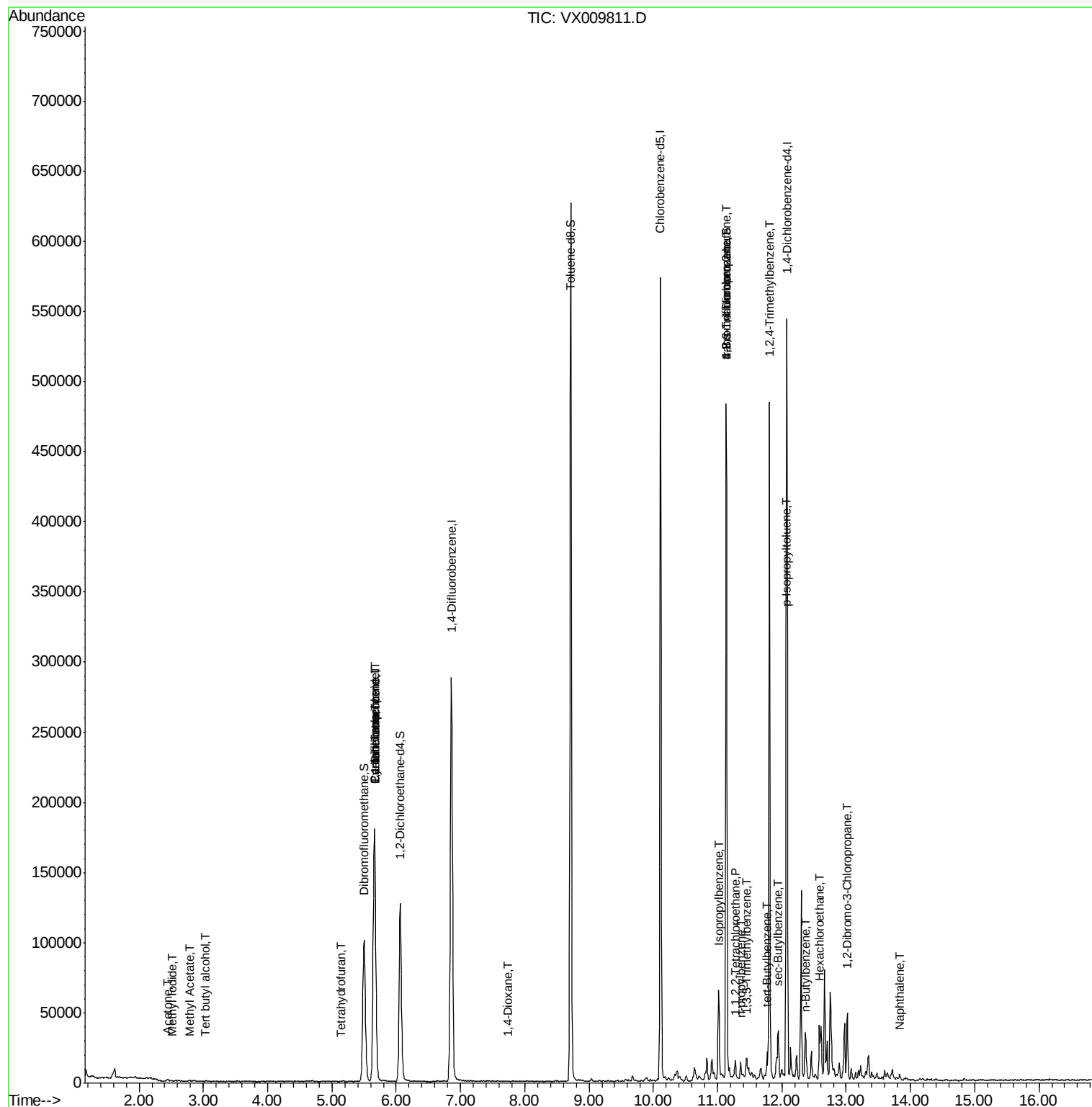
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	2.52	142	19	4.603	ug/l #	42
11) Tert butyl alcohol	3.04	59	207	0.371	ug/l	100
16) Acetone	2.44	43	1833	1.417	ug/l	90
18) Methyl Acetate	2.78	43	1248	0.406	ug/l #	90
28) Bromochloromethane	5.02	49	38	Below Cal	#	20
29) Tetrahydrofuran	5.15	42	272	0.210	ug/l #	44
31) Cyclohexane	5.66	56	3938	1.106	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	13662	5.239	ug/l #	50
38) Carbon Tetrachloride	5.67	117	16182	6.830	ug/l #	18
49) 1,4-Dioxane	7.73	88	42	0.718	ug/l #	1
73) Isopropylbenzene	11.02	105	31512	3.888	ug/l	99
75) 1,1,2,2-Tetrachloroethane	11.28	83	914	0.303	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	63547	24.579	ug/l #	34
78) n-propylbenzene	11.36	91	6744	0.729	ug/l	98
80) 1,3,5-Trimethylbenzene	11.46	105	5167	0.757	ug/l #	28
81) trans-1,4-Dichloro-2-buten	11.13	75	63547	62.890	ug/l #	11
83) tert-Butylbenzene	11.77	119	3742	0.564	ug/l	93
84) 1,2,4-Trimethylbenzene	11.80	105	202158	29.512	ug/l	99
85) sec-Butylbenzene	11.94	105	15761	2.002	ug/l	97
86) p-Isopropyltoluene	12.06	119	4716	0.667	ug/l	83
89) n-Butylbenzene	12.38	91	4368	0.683	ug/l #	52
90) Hexachloroethane	12.58	117	1600	1.327	ug/l #	7
92) 1,2-Dibromo-3-Chloropropan	13.01	75	225	0.332	ug/l #	2
95) Naphthalene	13.83	128	1800	0.221	ug/l #	88

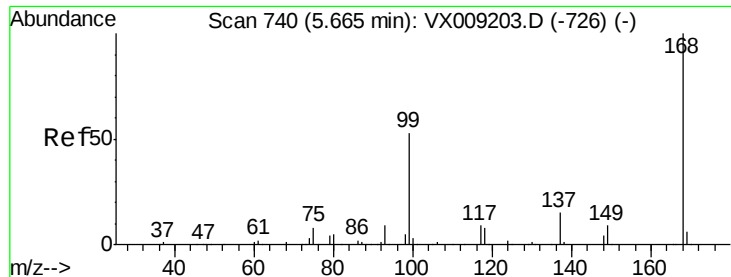
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 23 07:18:13 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
Quant Title : SW846 8260
QLast Update : Thu May 09 07:31:15 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

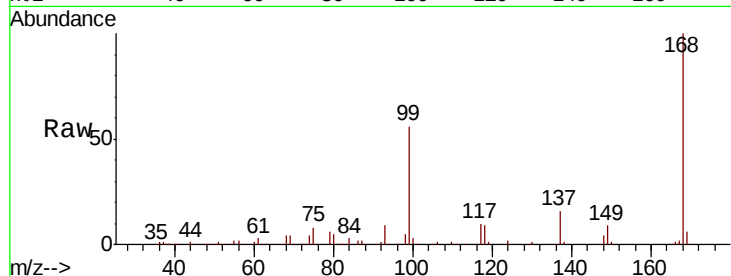
EP1-PZ-E1-6

Tot Ion:168 Resp: 176495

Ion Ratio Lower Upper

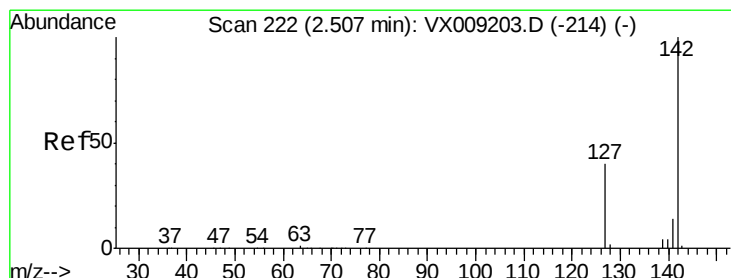
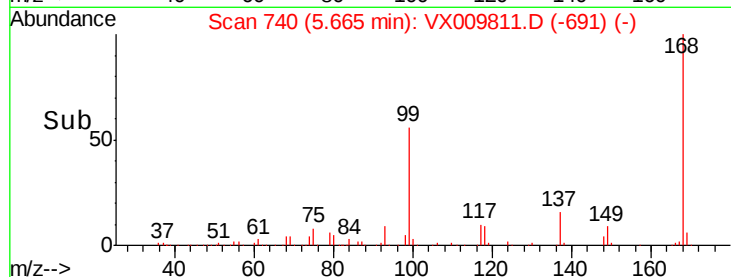
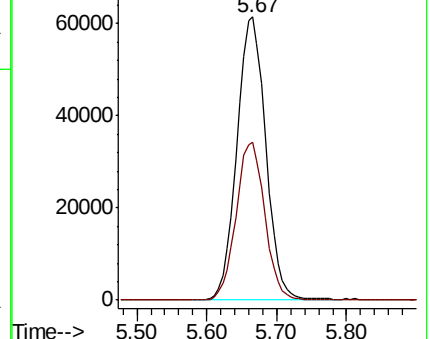
168 100

99 56.0 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#10

Methyl Iodide

Concen: 4.603 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

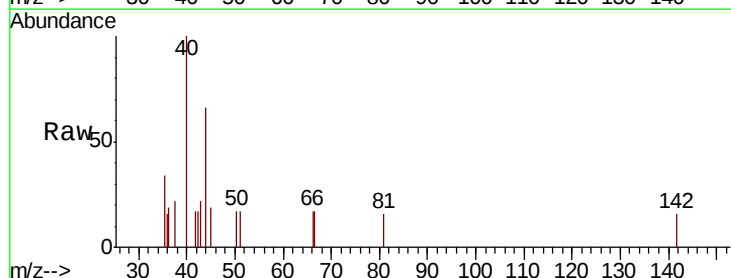
Tgt Ion:142 Resp: 19

Ion Ratio Lower Upper

142 100

127 0.0 32.7 49.1#

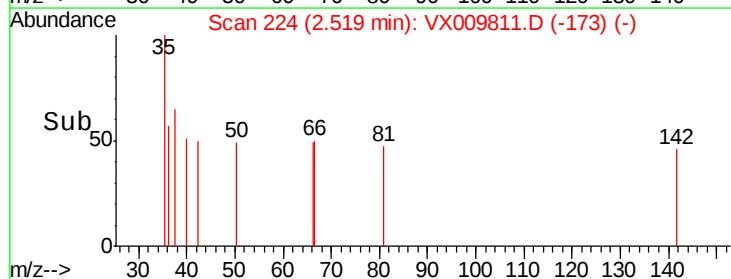
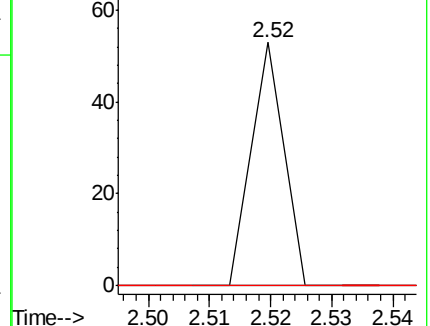
141 0.0 11.5 17.3#

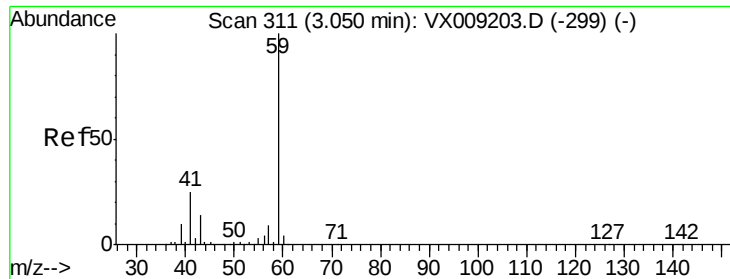


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

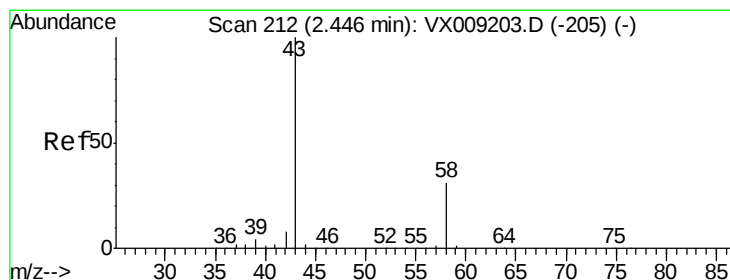
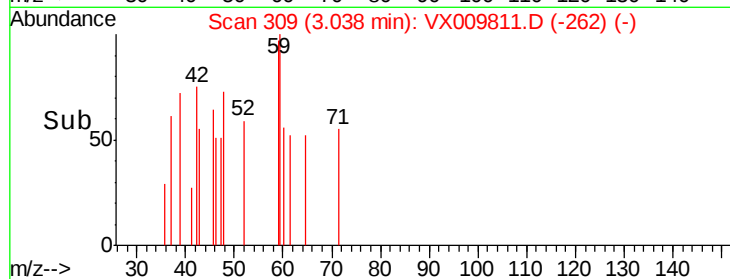
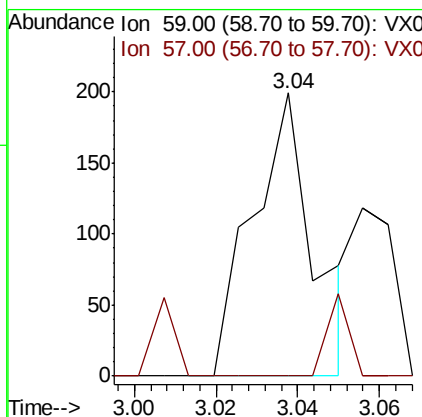
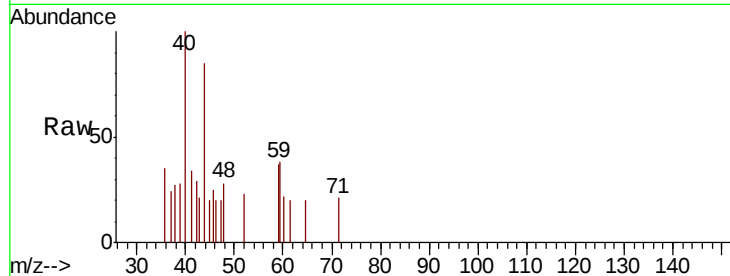




#11
Tert butyl alcohol
Concen: 0.371 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.01 min
Lab File: VX009811.D
Acq: 22 May 2019 17:54

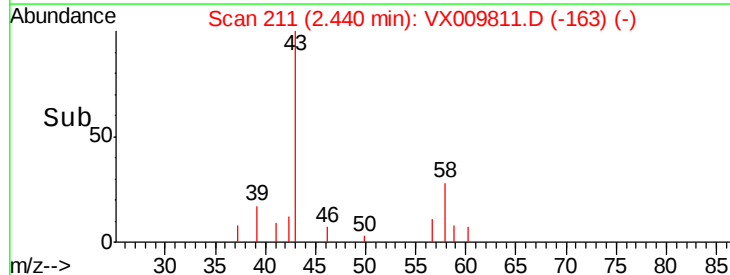
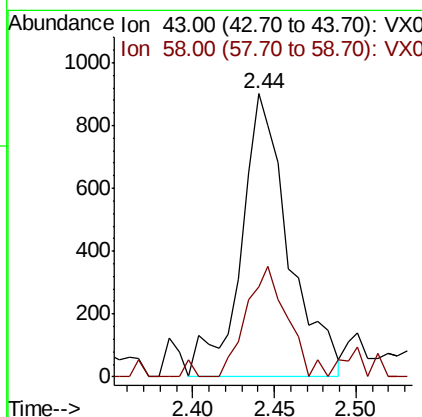
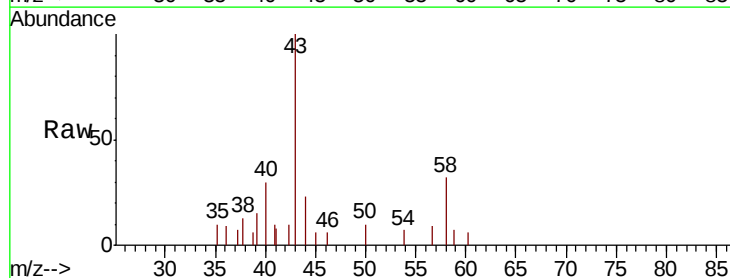
Instrument :
MSVOA_X
ClientSampleId :
EP1-PZ-E1-6

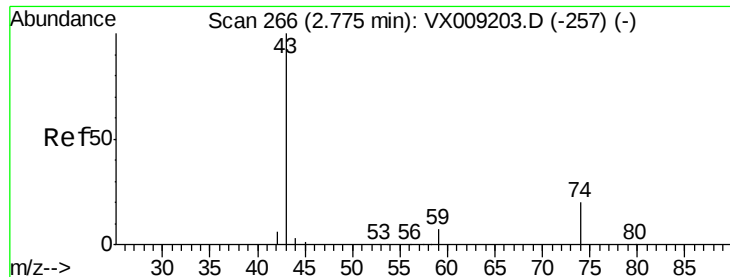
Tot Ion: 59 Resp: 207
Ion Ratio Lower Upper
59 100
57 10.1 8.2 12.2



#16
Acetone
Concen: 1.417 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX009811.D
Acq: 22 May 2019 17:54

Tgt Ion: 43 Resp: 1833
Ion Ratio Lower Upper
43 100
58 25.7 24.9 37.3

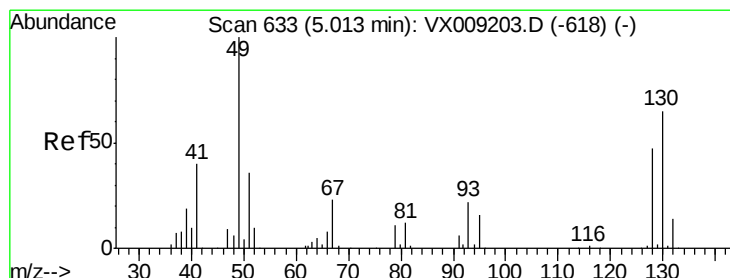
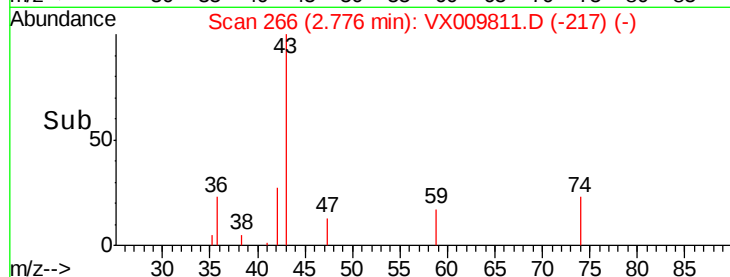
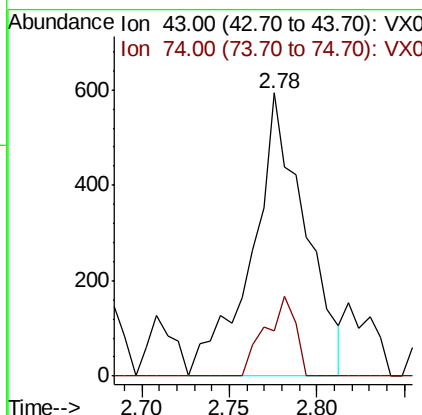
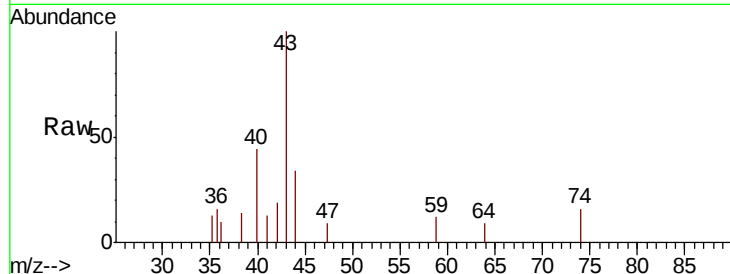




#18
Methvl Acetate
Concen: 0.406 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX009811.D
Acq: 22 May 2019 17:54

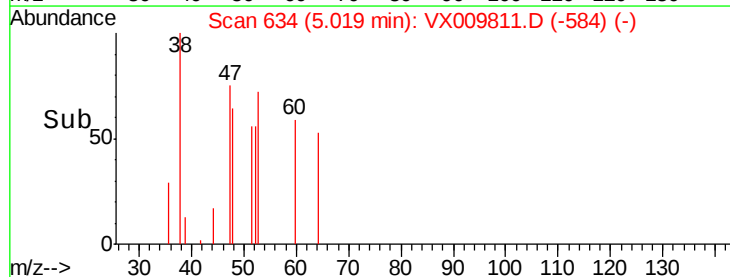
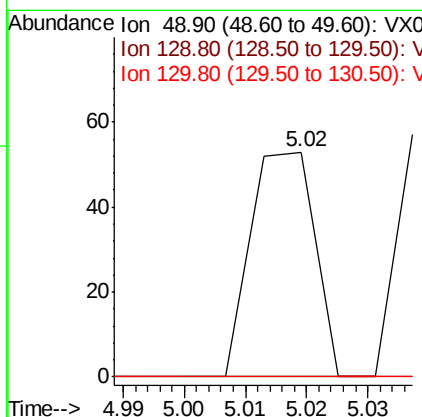
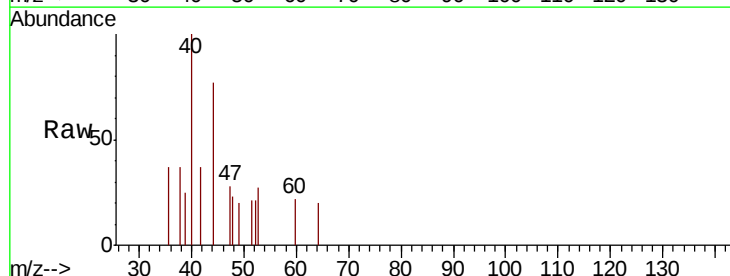
Instrument :
MSVOA_X
ClientSampled :
EP1-PZ-E1-6

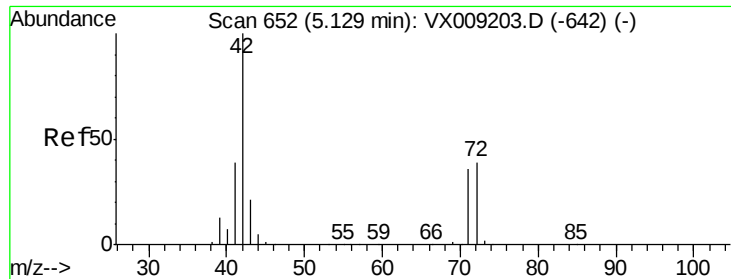
Tot Ion: 43 Resp: 1248
Ion Ratio Lower Upper
43 100
74 15.8 16.2 24.4#



#28
Bromochloromethane
Concen: Below Cal
RT: 5.02 min Scan# 634
Delta R.T. 0.01 min
Lab File: VX009811.D
Acq: 22 May 2019 17:54

Tgt Ion: 49 Resp: 38
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 51.2 76.8#





#29

Tetrahydrofuran

Concen: 0.210 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.02 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

EP1-PZ-E1-6

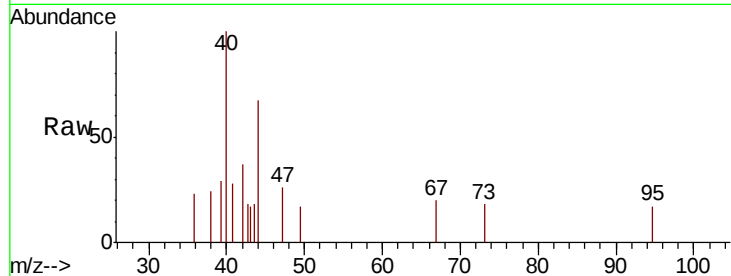
Tot Ion: 42 Resp: 272

Ion Ratio Lower Upper

42 100

72 7.0 30.4 45.6#

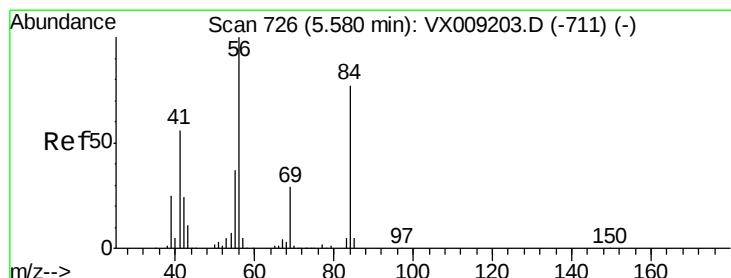
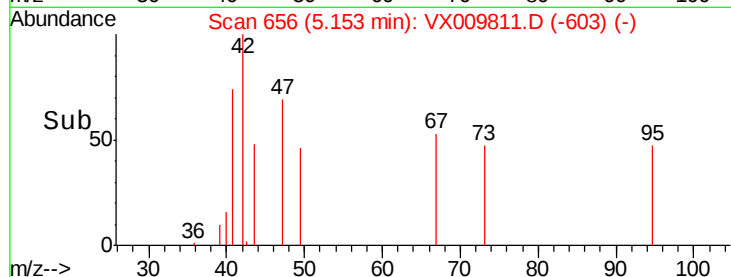
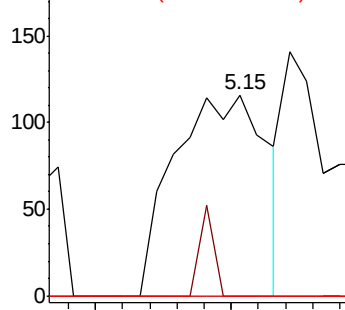
71 0.0 28.6 43.0#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.106 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

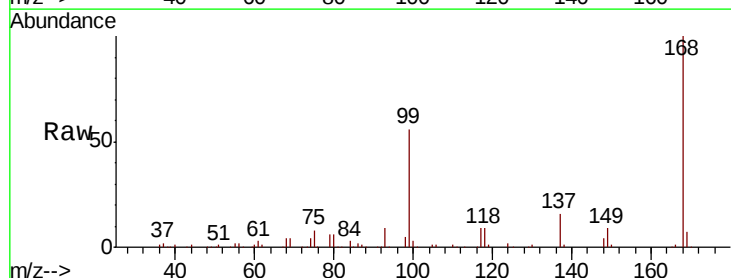
Tgt Ion: 56 Resp: 3938

Ion Ratio Lower Upper

56 100

69 177.2 23.4 35.0#

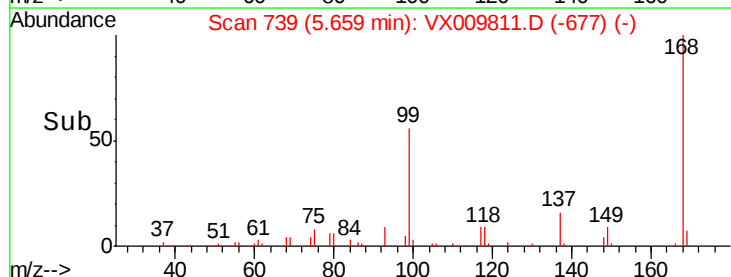
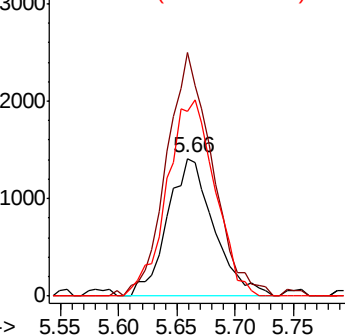
84 134.3 61.9 92.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

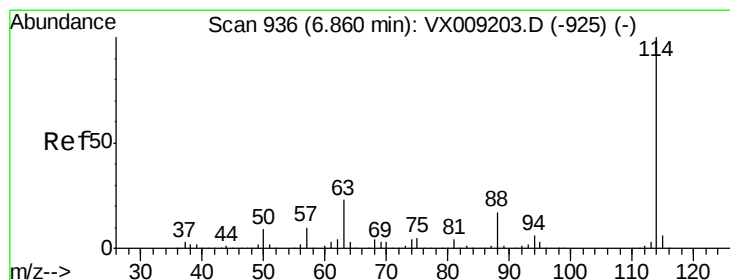
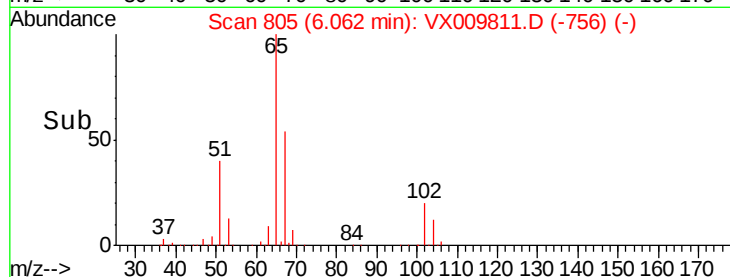
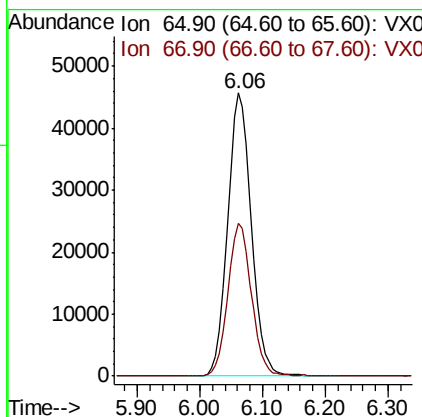
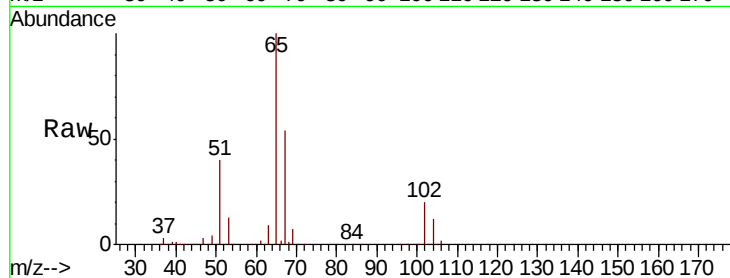




#33
 1,2-Dichloroethane-d4
 Concen: 49.429 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX009811.D
 Acq: 22 May 2019 17:54

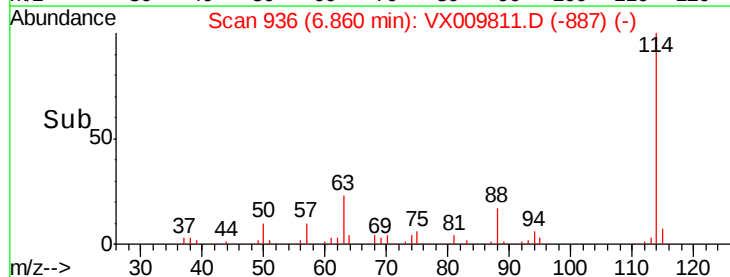
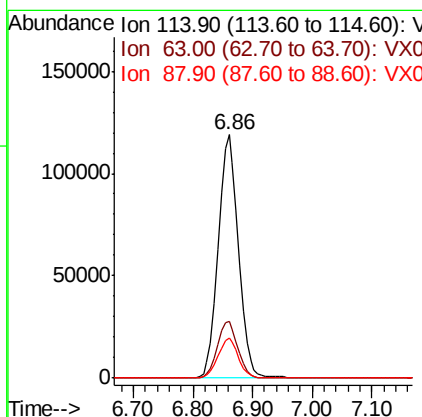
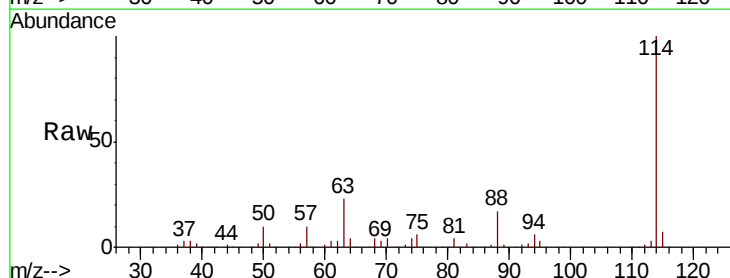
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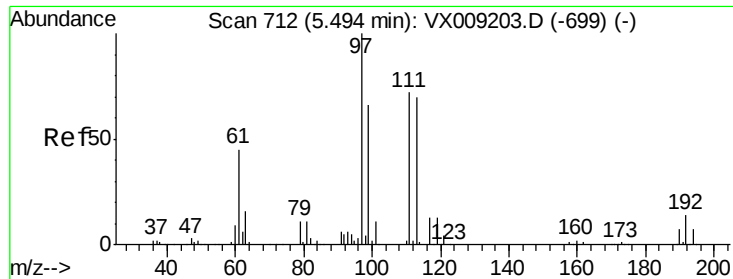
Tot Ion: 65 Resp: 119093
 Ion Ratio Lower Upper
 65 100
 67 53.6 0.0 106.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009811.D
 Acq: 22 May 2019 17:54

Tgt Ion: 114 Resp: 280603
 Ion Ratio Lower Upper
 114 100
 63 23.2 0.0 45.6
 88 16.7 0.0 33.2

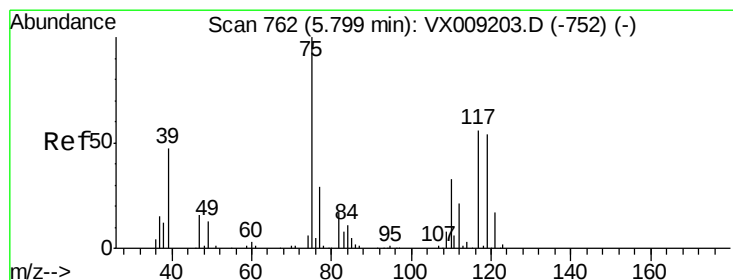
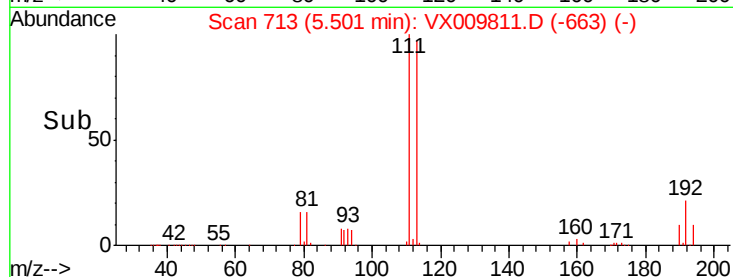
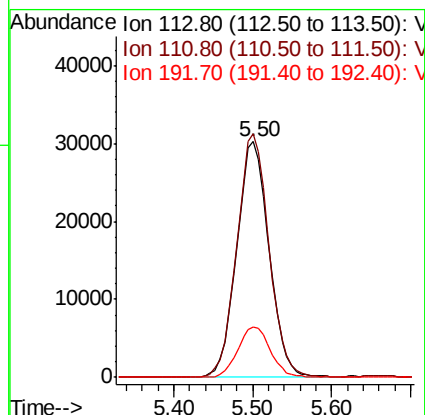
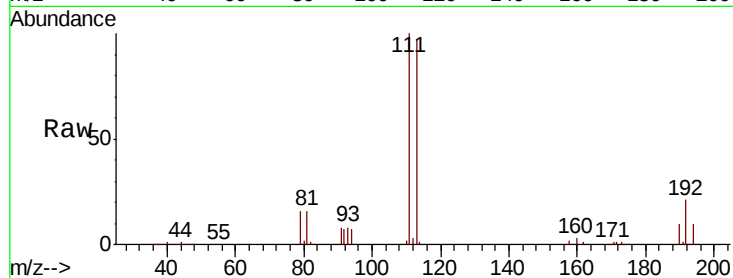




#35
 Dibromofluoromethane
 Concen: 49.004 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009811.D
 Acq: 22 May 2019 17:54

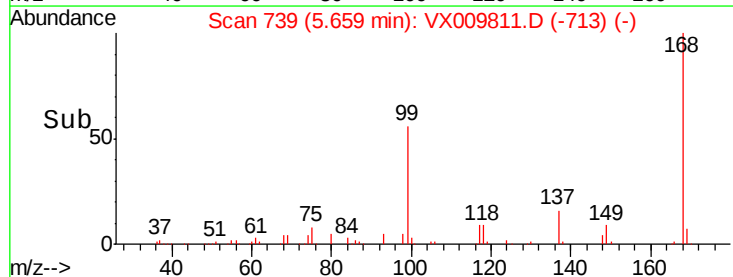
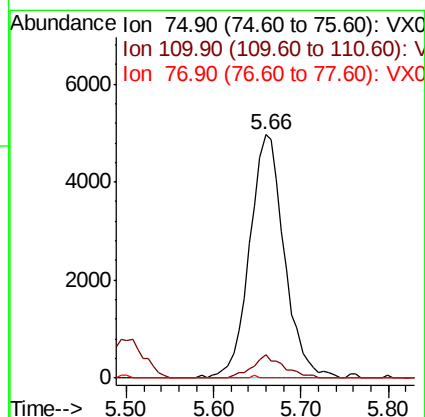
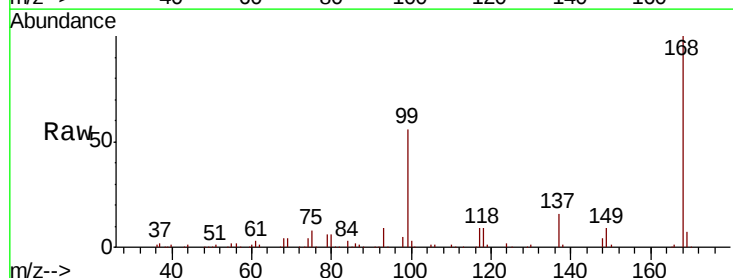
Instrument :
 MSVOA_X
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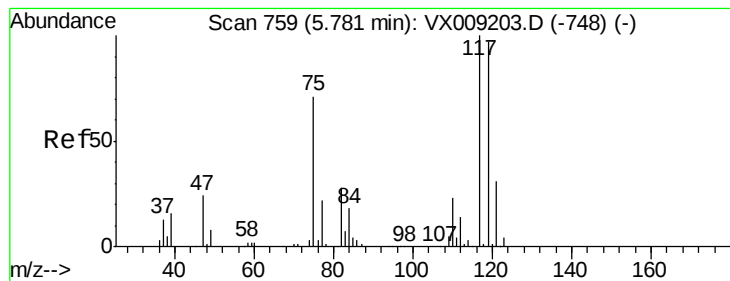
Tot Ion:113 Resp: 86443
 Ion Ratio Lower Upper
 113 100
 111 102.5 82.8 124.2
 192 21.5 17.0 25.6



#36
 1,1-Dichloropropene
 Concen: 5.239 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX009811.D
 Acq: 22 May 2019 17:54

Tgt Ion: 75 Resp: 13662
 Ion Ratio Lower Upper
 75 100
 110 8.5 16.9 50.6#
 77 0.1 24.8 37.2#





#38

Carbon Tetrachloride

Concen: 6.830 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

EP1-PZ-E1-6

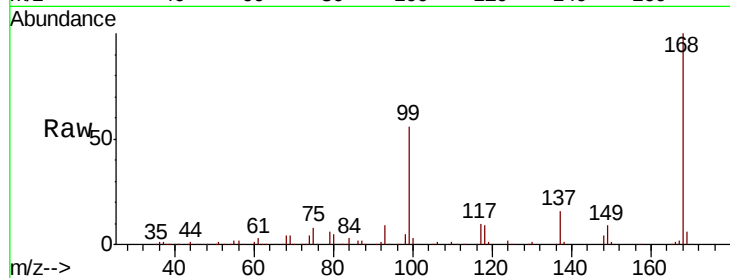
Tot Ion:117 Resp: 16182

Ion Ratio Lower Upper

117 100

119 8.2 77.5 116.3#

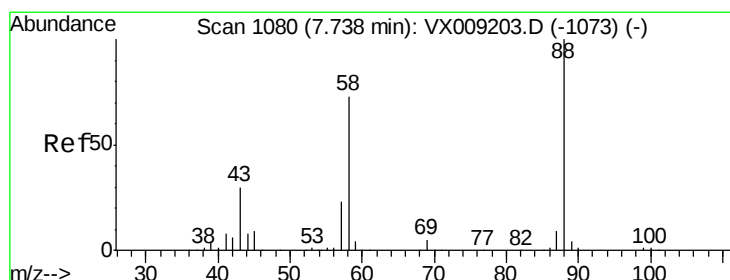
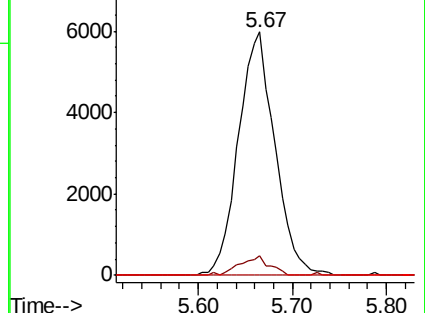
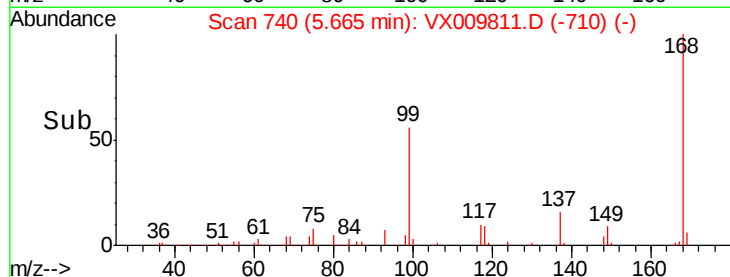
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.718 ug/l

RT: 7.73 min Scan# 1079

Delta R.T. -0.01 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

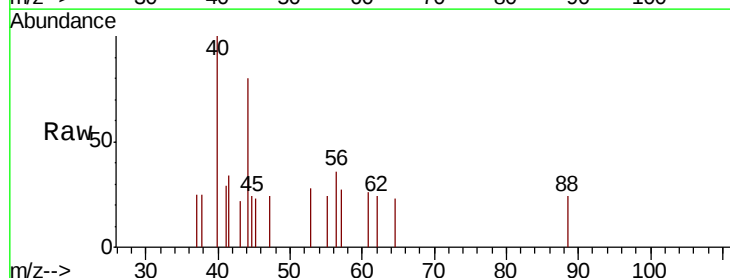
Tgt Ion: 88 Resp: 42

Ion Ratio Lower Upper

88 100

43 250.0 28.6 42.8#

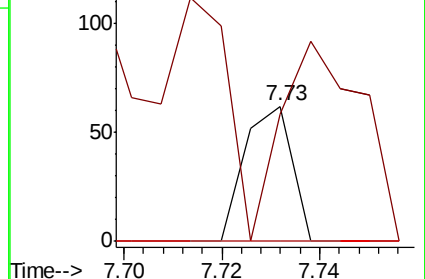
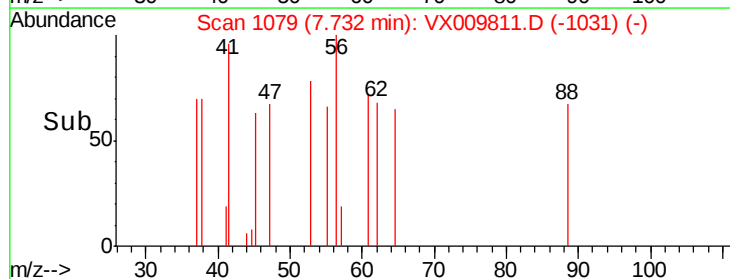
58 0.0 61.7 92.5#

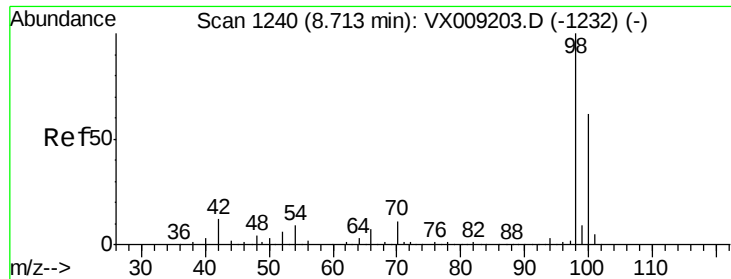


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.003 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

Instrument :

MSVOA_X

ClientSampled :

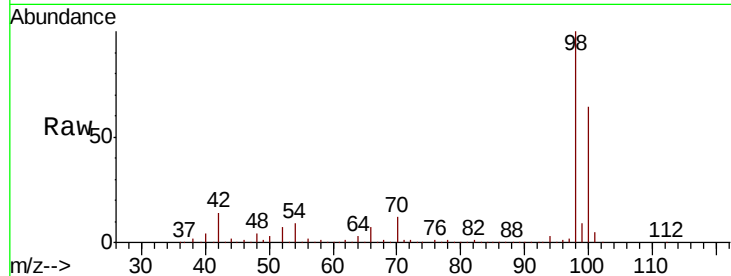
EP1-PZ-E1-6

Tot Ion: 98 Resp: 356100

Ion Ratio Lower Upper

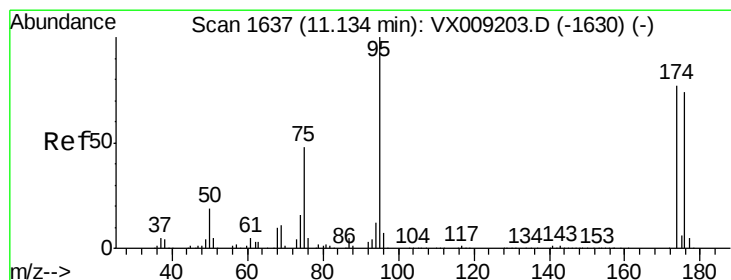
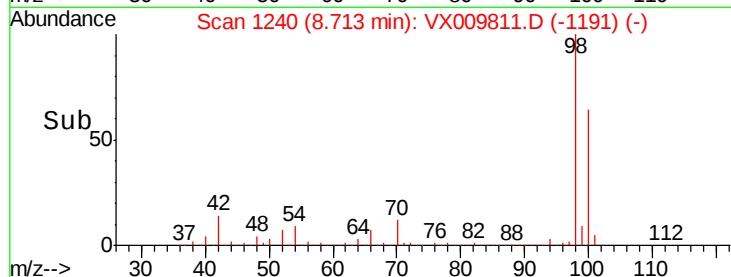
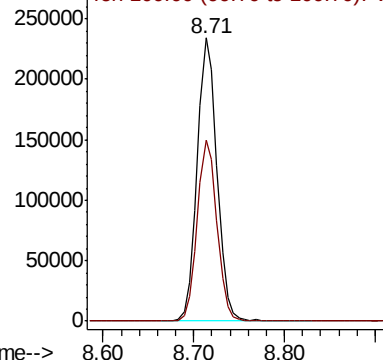
98 100

100 63.9 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#62

4-Bromofluorobenzene

Concen: 47.389 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

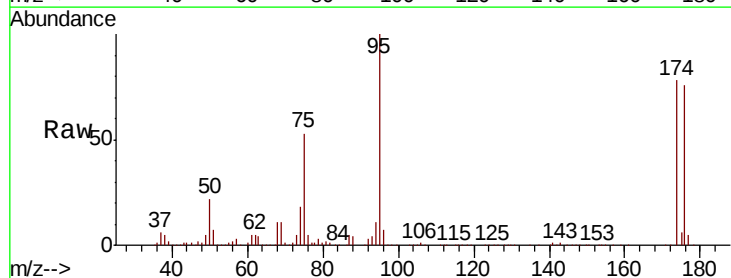
Tgt Ion: 95 Resp: 122629

Ion Ratio Lower Upper

95 100

174 81.1 0.0 161.6

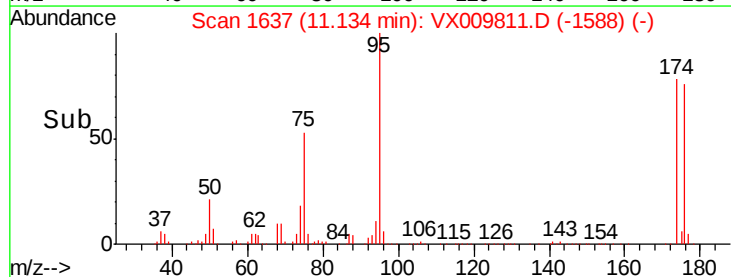
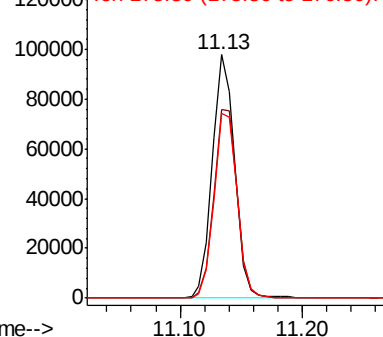
176 78.4 0.0 159.2

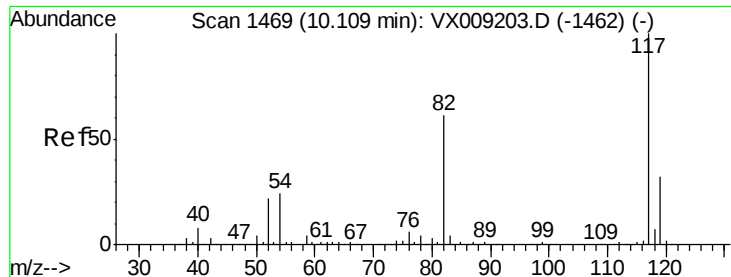


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

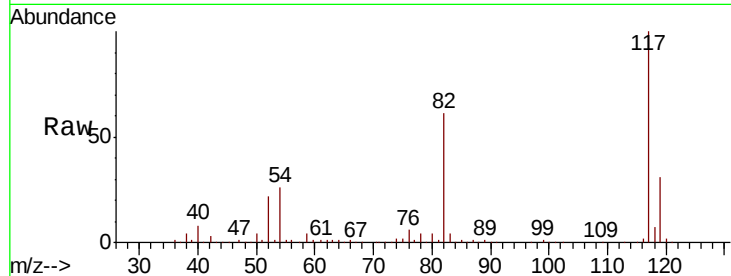




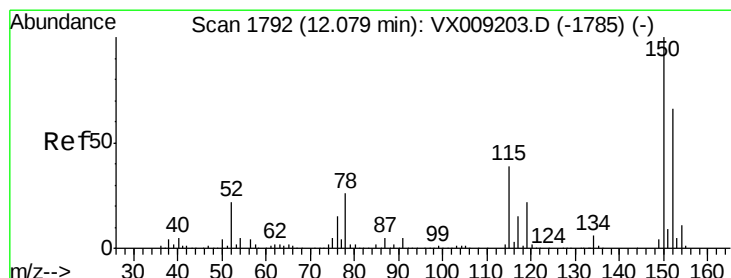
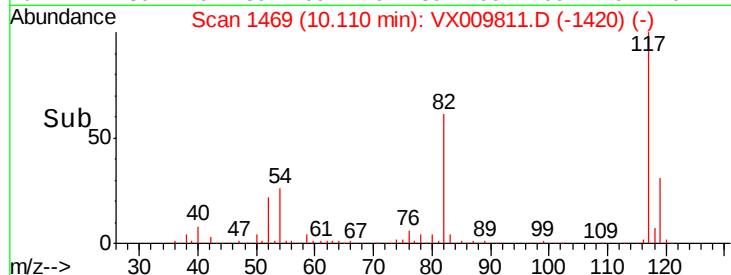
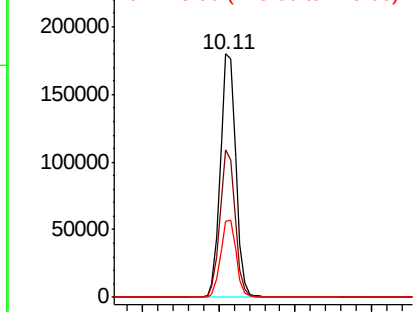
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009811.D
Acq: 22 May 2019 17:54

Instrument :
MSVOA_X
ClientSampleId :
EP1-PZ-E1-6

Tot Ion:117 Resp: 252654
Ion Ratio Lower Upper
117 100
82 60.7 48.8 73.2
119 31.3 25.8 38.6

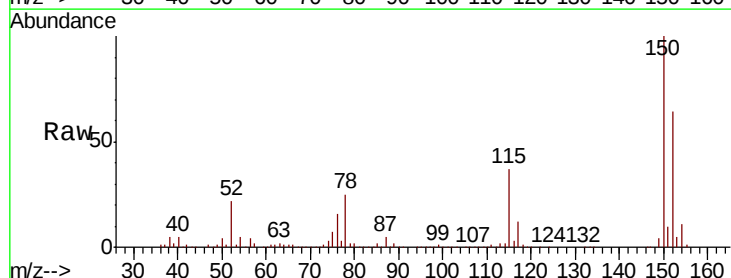


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

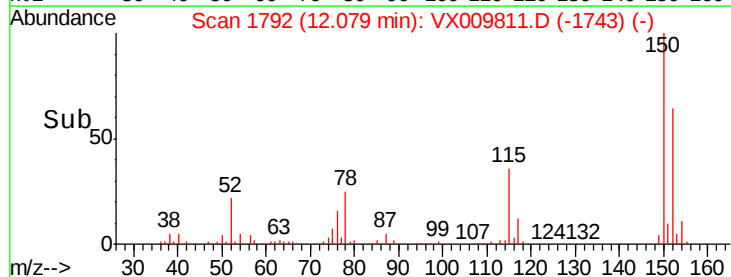
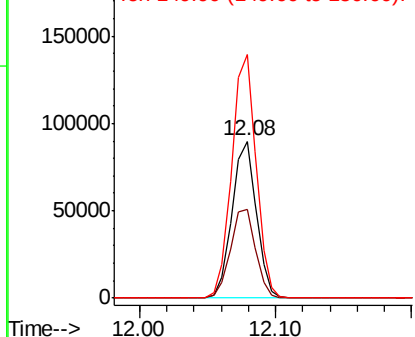


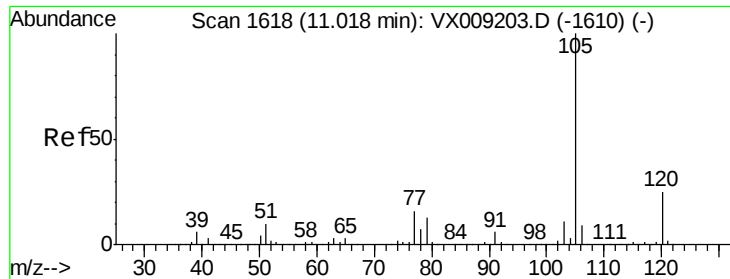
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX009811.D
Acq: 22 May 2019 17:54

Tgt Ion:152 Resp: 111456
Ion Ratio Lower Upper
152 100
115 59.1 41.2 123.6
150 156.2 0.0 346.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 3.888 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. 0.00 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

Instrument :

MSVOA_X

ClientSampled :

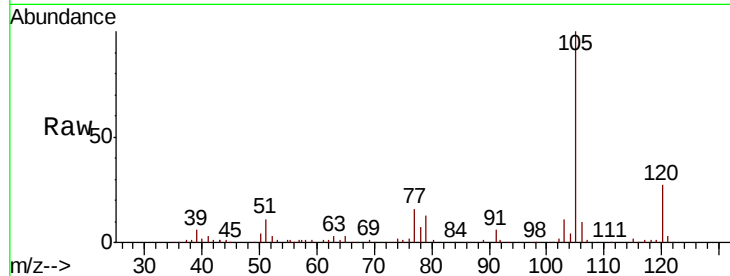
EP1-PZ-E1-6

Tot Ion:105 Resp: 31512

Ion Ratio Lower Upper

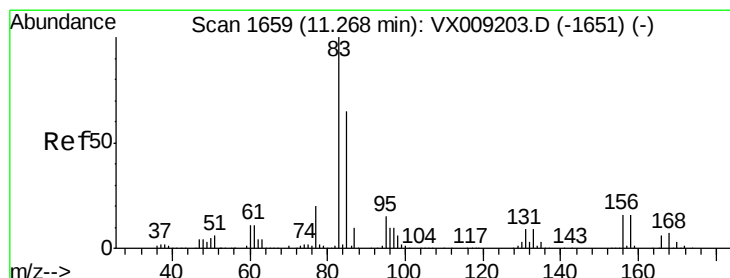
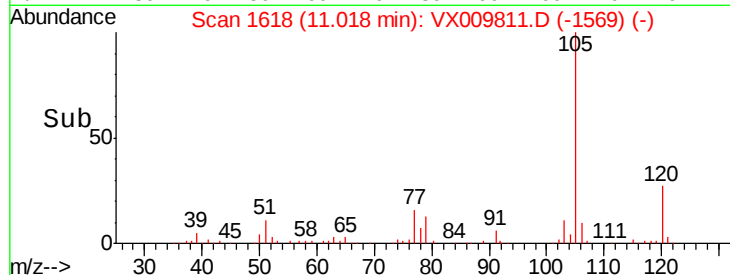
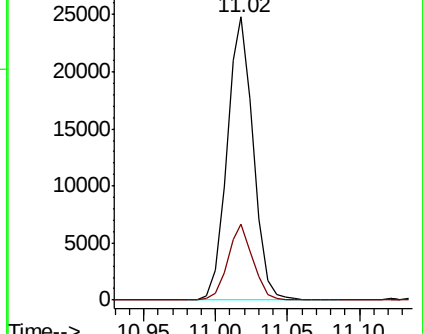
105 100

120 25.8 12.8 38.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#75

1,1,2,2-Tetrachloroethane

Concen: 0.303 ug/l

RT: 11.28 min Scan# 1661

Delta R.T. 0.01 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

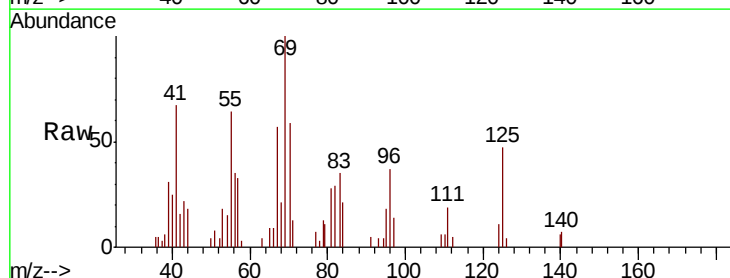
Tgt Ion: 83 Resp: 914

Ion Ratio Lower Upper

83 100

131 0.0 4.6 13.8#

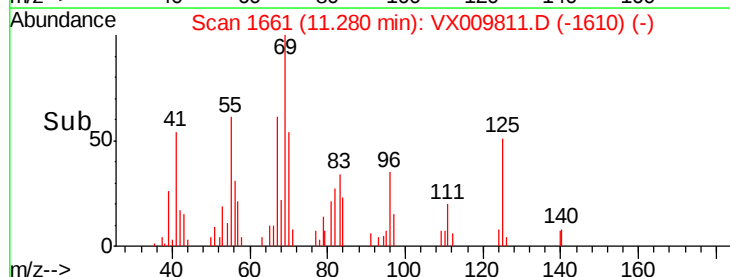
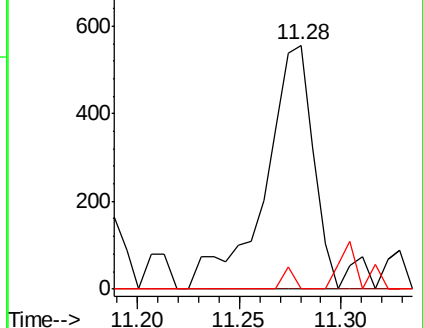
85 2.1 32.0 96.2#

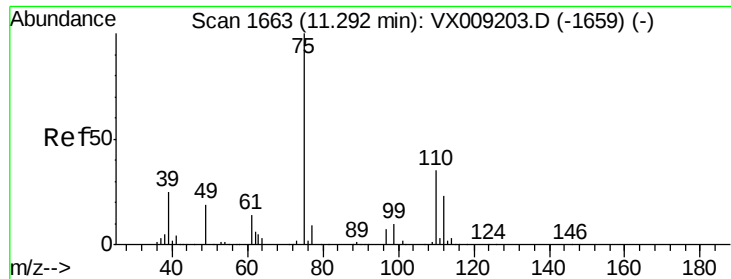


Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0





#76

1,2,3-Trichloropropane

Concen: 24.579 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

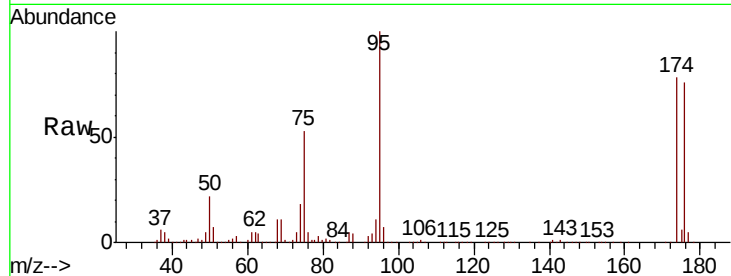
EP1-PZ-E1-6

Tot Ion: 75 Resp: 63547

Ion Ratio Lower Upper

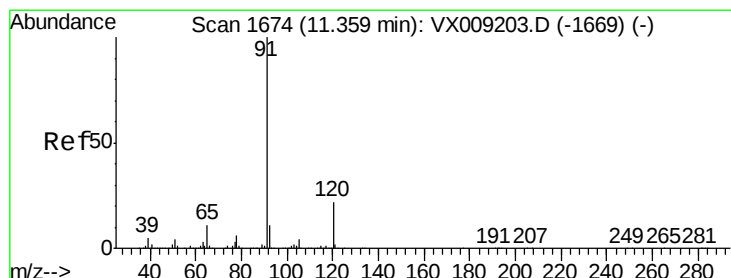
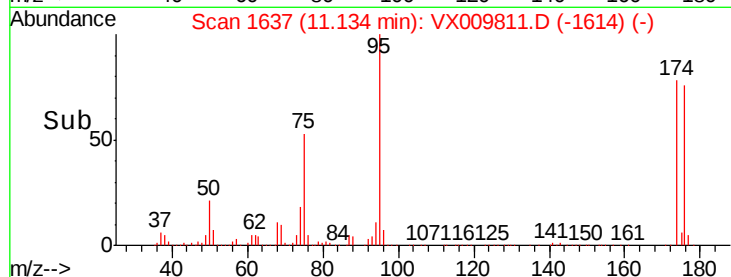
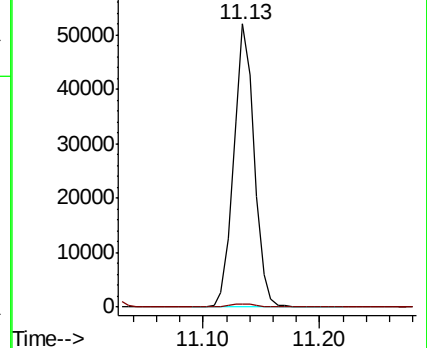
75 100

77 1.6 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#78

n-propylbenzene

Concen: 0.729 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX009811.D

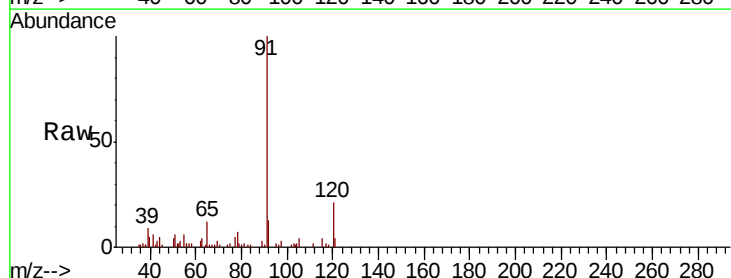
Acq: 22 May 2019 17:54

Tgt Ion: 91 Resp: 6744

Ion Ratio Lower Upper

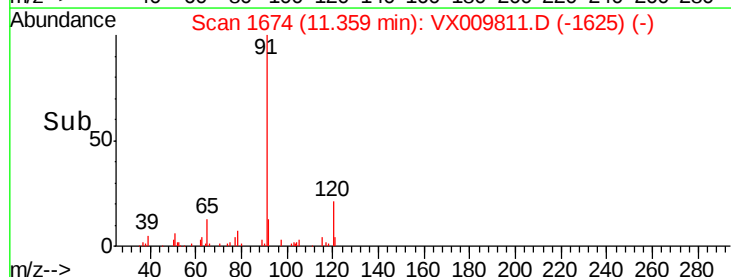
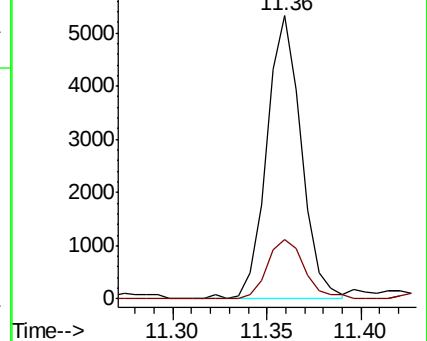
91 100

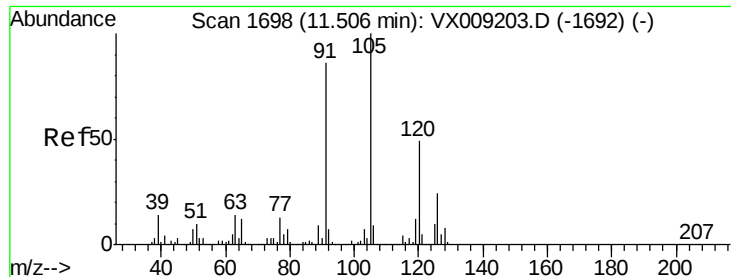
120 22.8 11.0 33.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.757 ug/l

RT: 11.46 min Scan# 1690

Delta R.T. -0.05 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

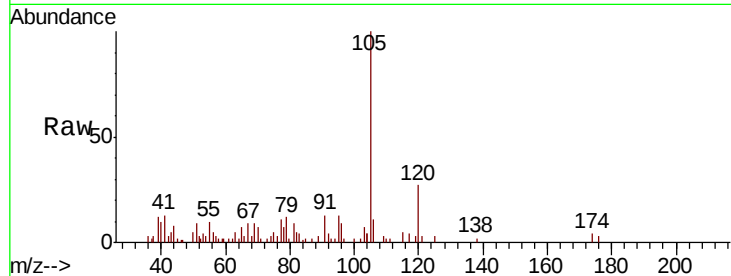
EP1-PZ-E1-6

Tot Ion:105 Resp: 5167

Ion Ratio Lower Upper

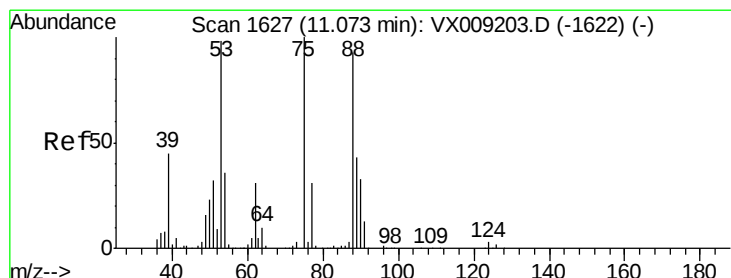
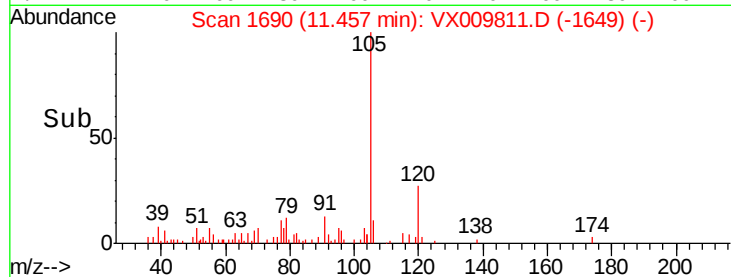
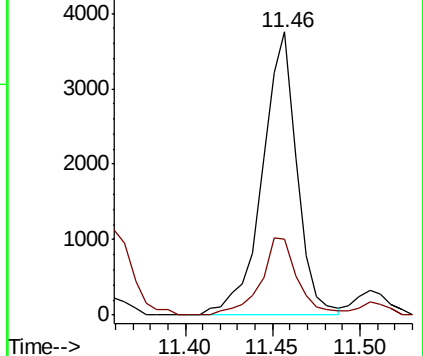
105 100

120 0.0 24.3 72.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 62.890 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

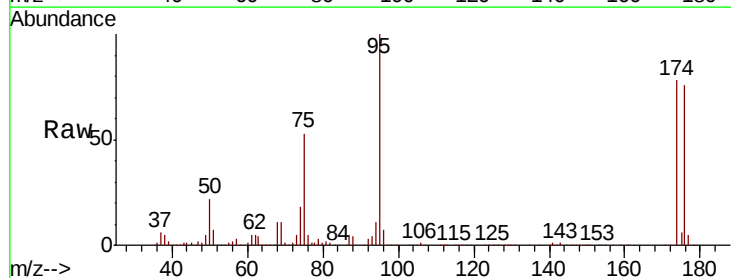
Tgt Ion: 75 Resp: 63547

Ion Ratio Lower Upper

75 100

53 0.5 79.0 118.6#

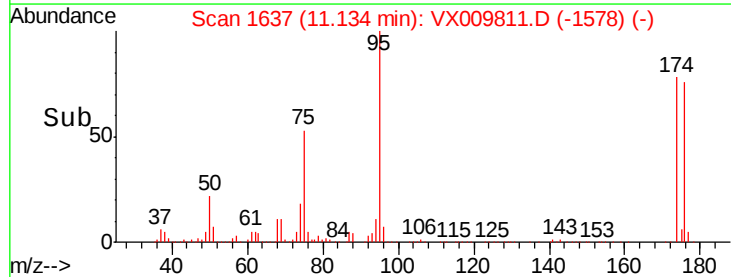
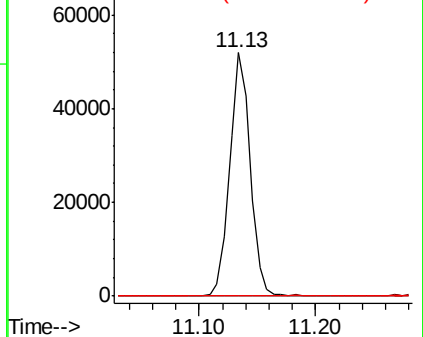
89 0.0 34.7 52.1#

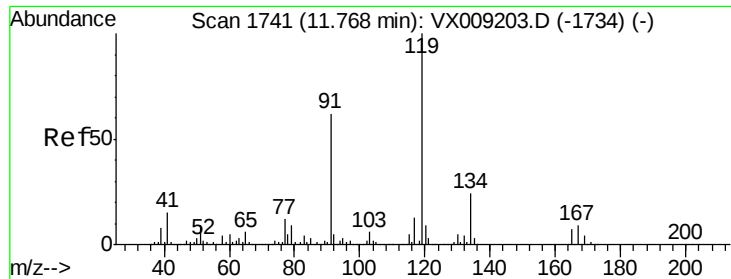


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#83

tert-Butylbenzene

Concen: 0.564 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

Instrument :

MSVOA_X

ClientSampled :

EP1-PZ-E1-6

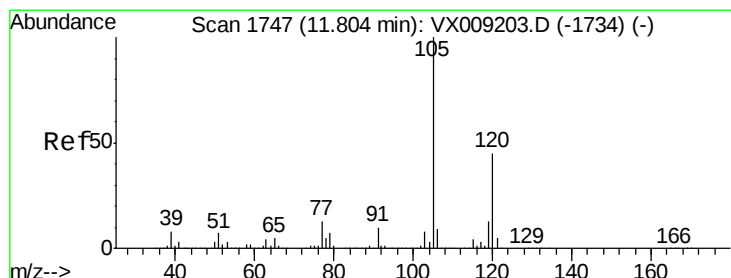
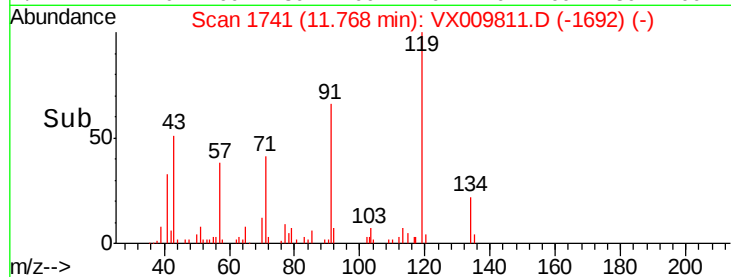
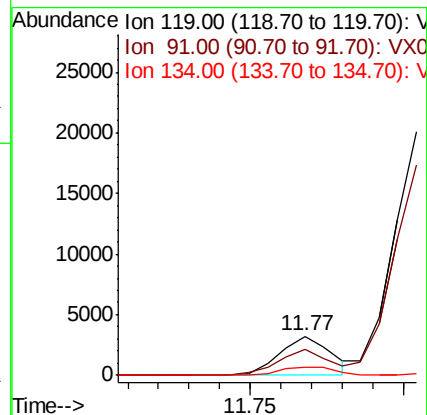
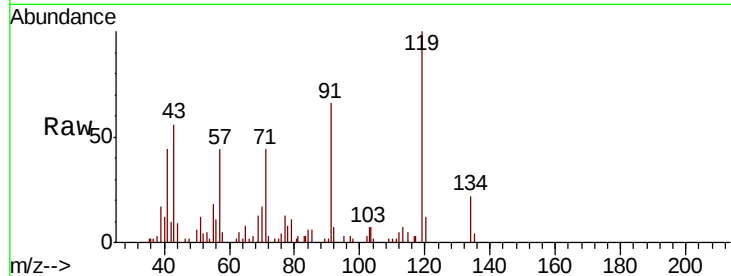
Tot Ion:119 Resp: 3742

Ion Ratio Lower Upper

119 100

91 65.8 29.5 88.5

134 24.2 11.4 34.1



#84

1,2,4-Trimethylbenzene

Concen: 29.512 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX009811.D

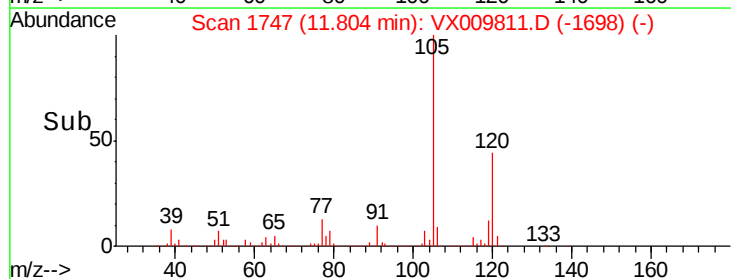
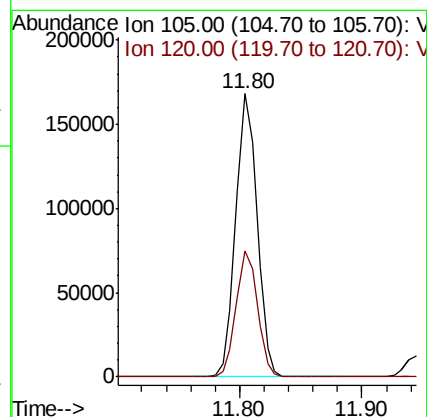
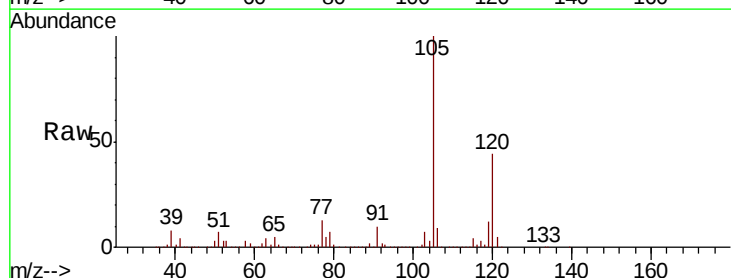
Acq: 22 May 2019 17:54

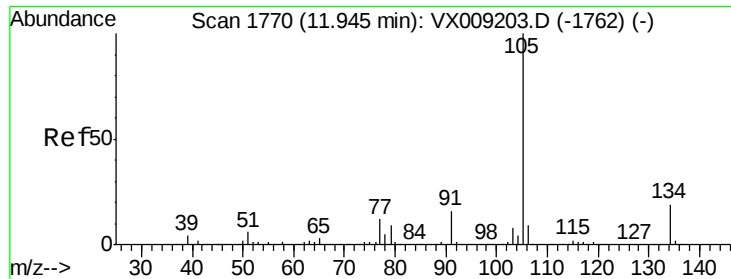
Tgt Ion:105 Resp: 202158

Ion Ratio Lower Upper

105 100

120 44.8 22.0 66.0





#85

sec-Butylbenzene

Concen: 2.002 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

Instrument :

MSVOA_X

ClientSampleId :

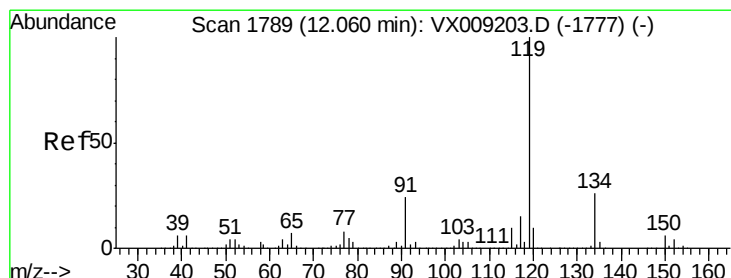
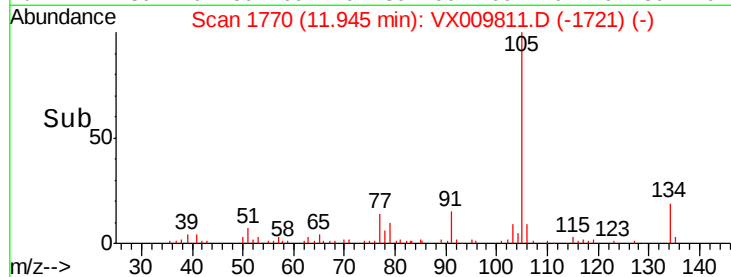
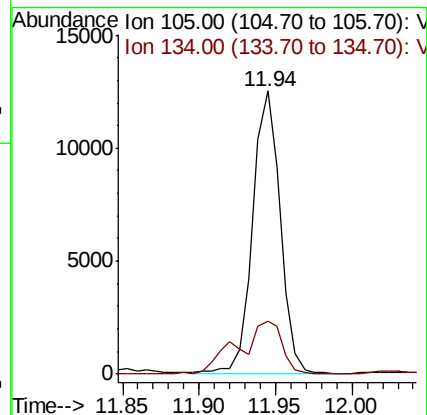
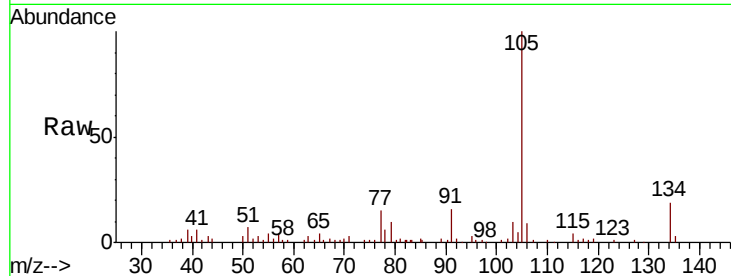
EP1-PZ-E1-6

Tot Ion:105 Resp: 15761

Ion Ratio Lower Upper

105 100

134 17.8 9.7 28.9



#86

p-Isopropyltoluene

Concen: 0.667 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

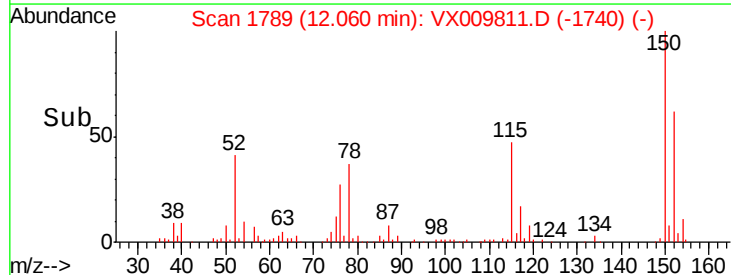
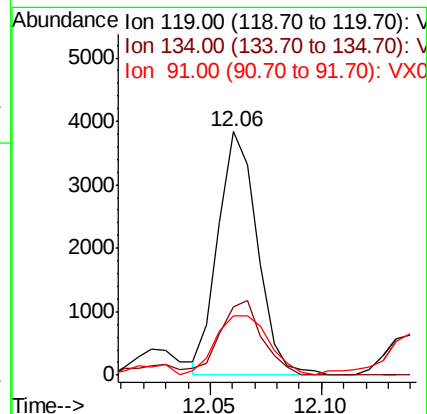
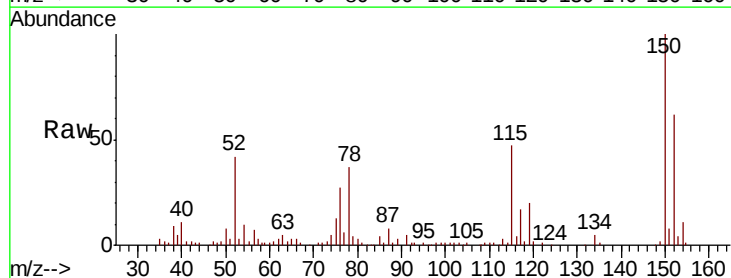
Tgt Ion:119 Resp: 4716

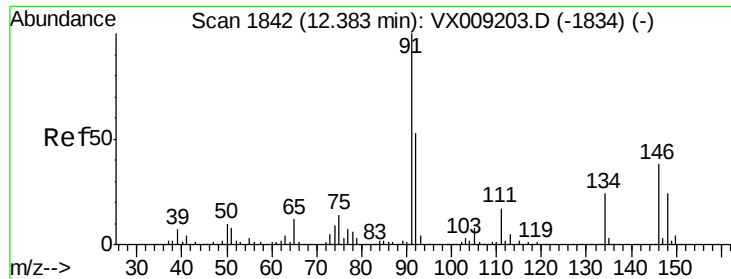
Ion Ratio Lower Upper

119 100

134 32.9 12.9 38.7

91 33.4 11.8 35.4

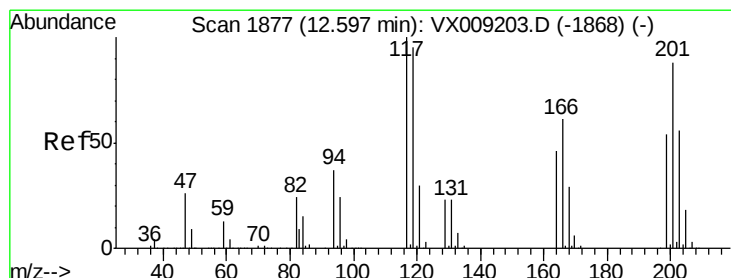
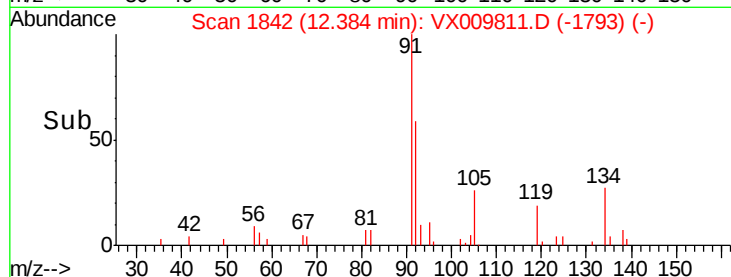
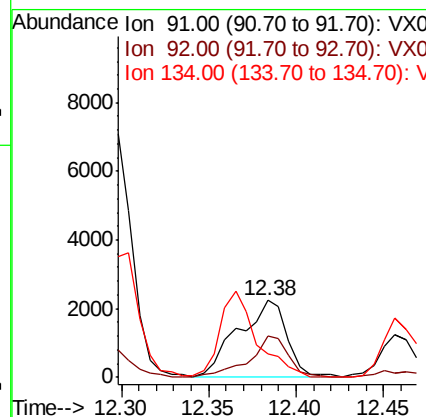
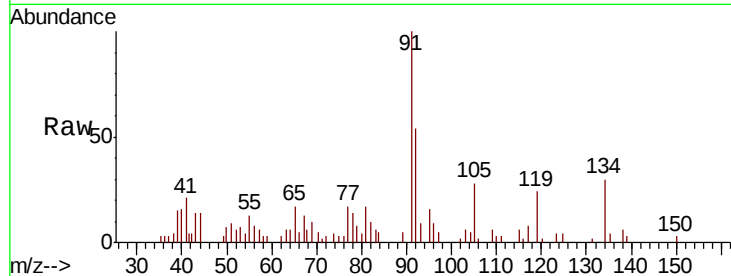




#89
n-Butylbenzene
Concen: 0.683 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. 0.00 min
Lab File: VX009811.D
Acq: 22 May 2019 17:54

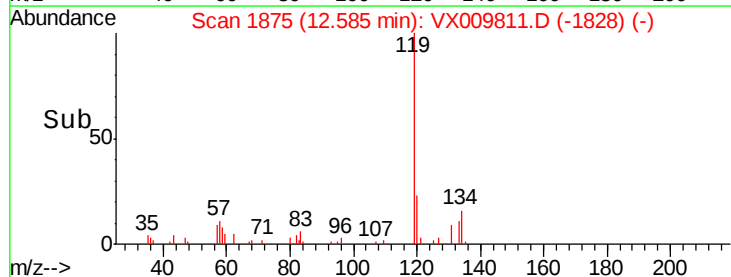
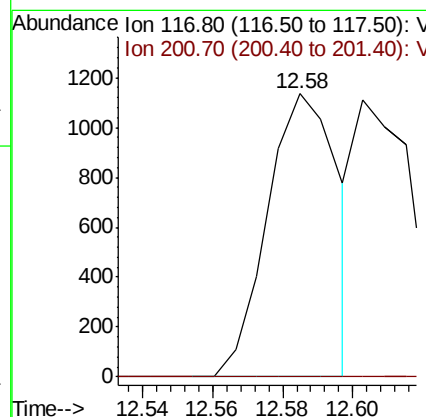
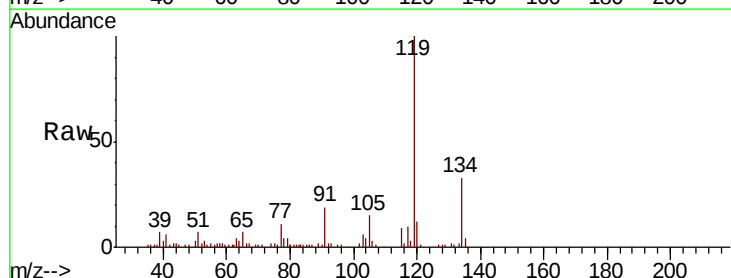
Instrument :
MSVOA_X
ClientSampleId :
EP1-PZ-E1-6

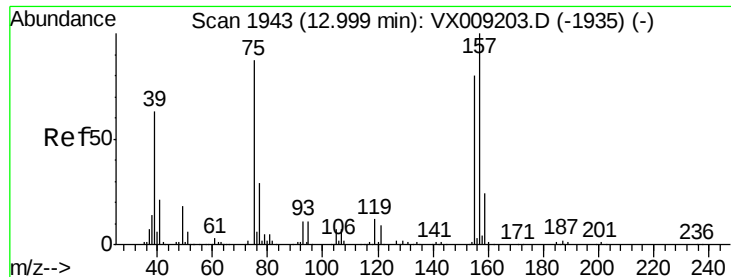
Tot Ion: 91 Resp: 4368
Ion Ratio Lower Upper
91 100
92 42.8 26.5 79.5
134 85.0 12.4 37.2#



#90
Hexachloroethane
Concen: 1.327 ug/l
RT: 12.58 min Scan# 1875
Delta R.T. -0.01 min
Lab File: VX009811.D
Acq: 22 May 2019 17:54

Tgt Ion: 117 Resp: 1600
Ion Ratio Lower Upper
117 100
201 0.0 42.3 126.9#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.332 ug/l

RT: 13.01 min Scan# 1945

Delta R.T. 0.01 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

Instrument :

MSVOA_X

ClientSampled :

EP1-PZ-E1-6

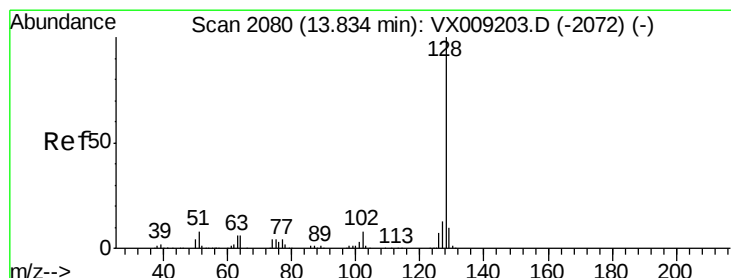
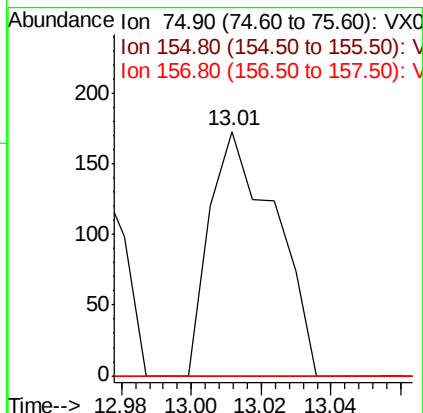
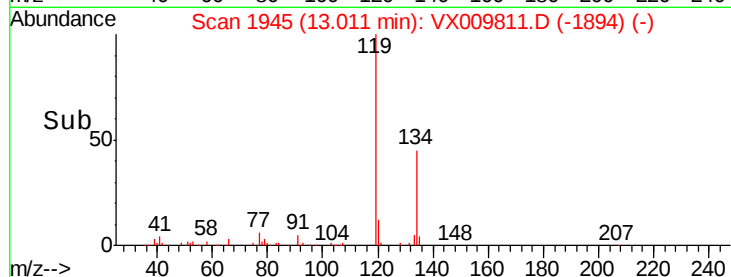
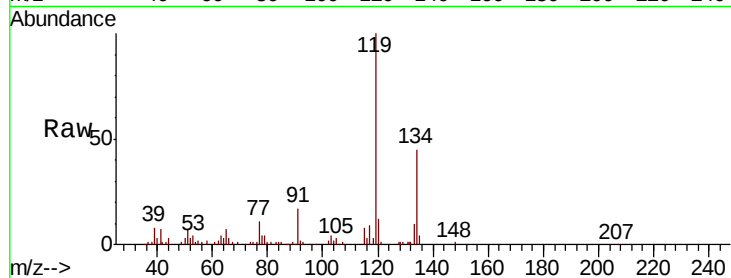
Tot Ion: 75 Resp: 225

Ion Ratio Lower Upper

75 100

155 0.0 42.0 126.0#

157 0.0 53.2 159.6#



#95

Naphthalene

Concen: 0.221 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX009811.D

Acq: 22 May 2019 17:54

Tgt Ion: 128 Resp: 1800

Ion Ratio Lower Upper

128 100

127 20.1 10.4 15.6#

129 12.9 8.6 13.0

