

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082918\
 Data File : VX004308.D
 Acq On : 29 Aug 2018 22:57
 Operator : JC/MD
 Sample : J4681-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW11D-M12W4-082218

Quant Time: Aug 30 02:13:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 05:39:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	252355	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	401027	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	368860	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	187313	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	182928	55.62	ug/l	0.00
Spiked Amount			Recovery	=	111.24%	
35) Dibromofluoromethane	5.50	113	158475	53.12	ug/l	0.00
Spiked Amount			Recovery	=	106.24%	
50) Toluene-d8	8.72	98	571881	50.78	ug/l	0.00
Spiked Amount			Recovery	=	101.56%	
62) 4-Bromofluorobenzene	11.14	95	192980	45.93	ug/l	0.00
Spiked Amount			Recovery	=	91.86%	

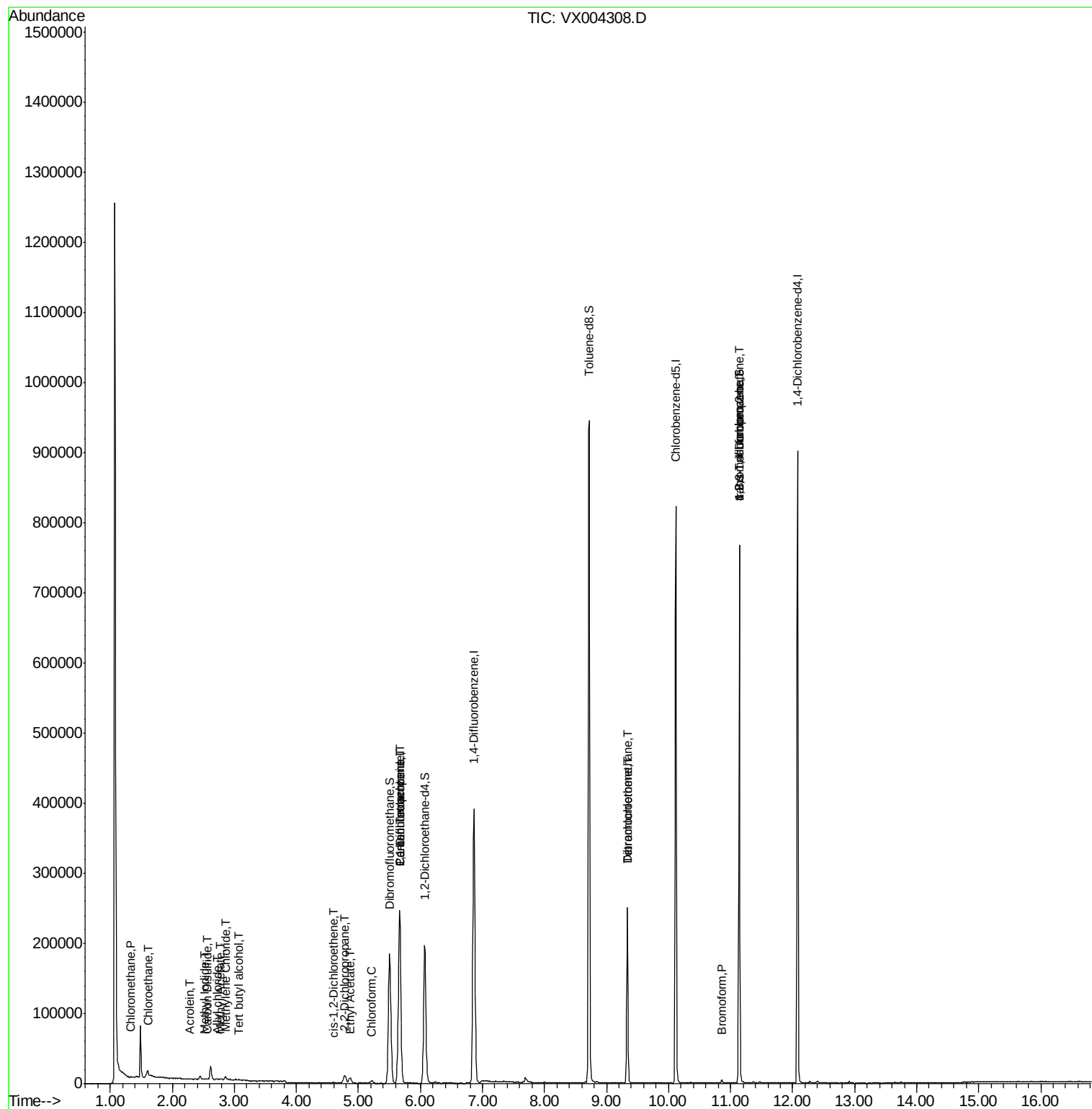
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1058	0.62	ug/l	92
5) Bromomethane	1.64	94	1095	Below Cal		89
6) Chloroethane	1.61	64	11466	5.29	ug/l #	63
10) Methyl Iodide	2.51	142	805	4.49	ug/l #	85
11) Tert butyl alcohol	3.07	59	1688	2.41	ug/l	97
13) Acrolein	2.28	56	45	0.27	ug/l #	1
14) Allyl chloride	2.71	41	1692	0.34	ug/l #	41
16) Acetone	2.45	43	5240	Below Cal		97
17) Carbon Disulfide	2.56	76	1250	0.96	ug/l #	94
18) Methyl Acetate	2.78	43	1649	0.34	ug/l	93
20) Methylene Chloride	2.85	84	1888	0.60	ug/l	89
25) 2-Butanone	4.71	43	847	Below Cal	#	82
26) 2,2-Dichloropropane	4.77	77	1042	0.25	ug/l #	52
27) cis-1,2-Dichloroethene	4.60	96	816	0.24	ug/l	89
30) Chloroform	5.21	83	3764	0.70	ug/l	98
36) 1,1-Dichloropropene	5.66	75	16844	3.74	ug/l #	49
37) Ethyl Acetate	4.87	43	13458	3.04	ug/l	99
38) Carbon Tetrachloride	5.66	117	22209	5.24	ug/l #	16
60) Dibromochloromethane	9.34	129	44637	13.46	ug/l #	11
64) Tetrachloroethene	9.34	164	50213	13.78	ug/l	99
71) Bromoform	10.86	173	1901	0.74	ug/l #	94
76) 1,2,3-Trichloropropane	11.14	75	91904	24.12	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	91904	78.27	ug/l #	10
94) Hexachlorobutadiene	13.78	225	157	Below Cal	#	69

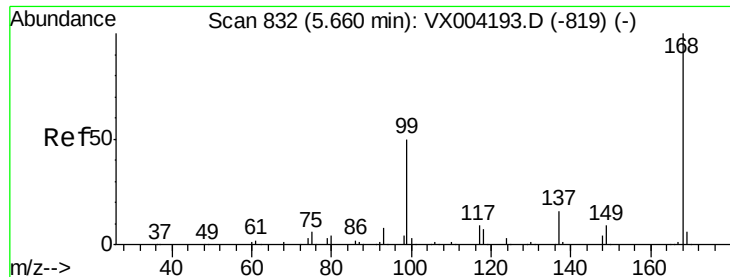
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Aug 23 05:39:44 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.01 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

Instrument :

MSVOA_X

ClientSampleId :

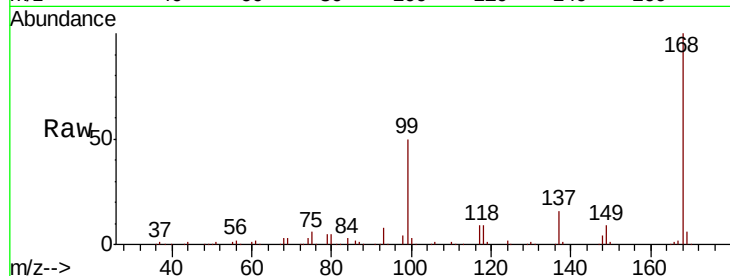
CPA-CPMW11D-M12W4-082218

Tot Ion:168 Resp: 252355

Ion Ratio Lower Upper

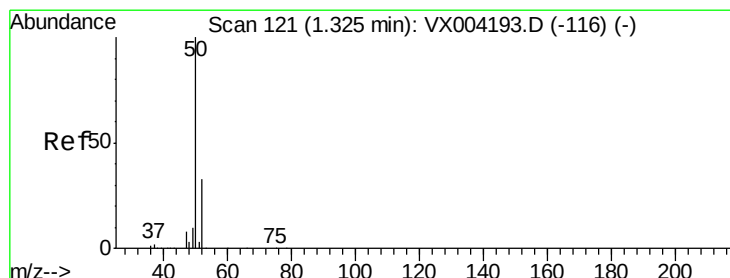
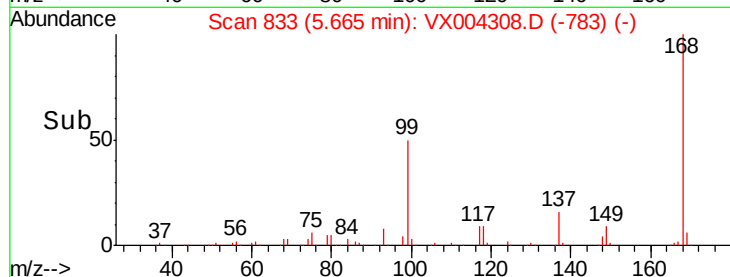
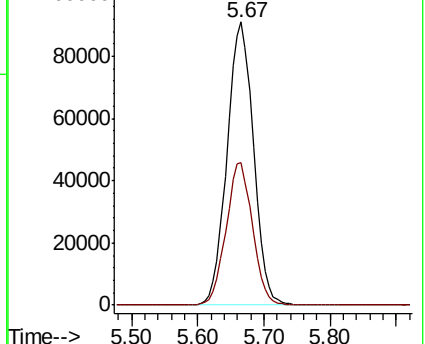
168 100

99 50.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.62 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX004308.D

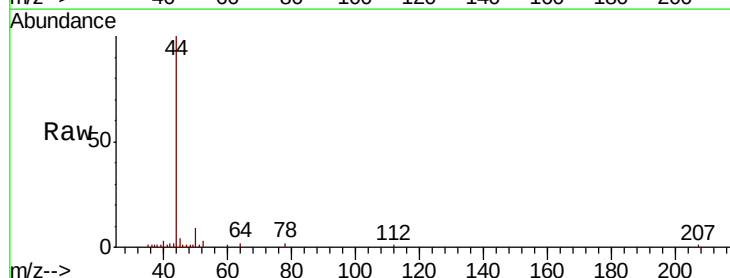
Acq: 29 Aug 2018 22:57

Tgt Ion: 50 Resp: 1058

Ion Ratio Lower Upper

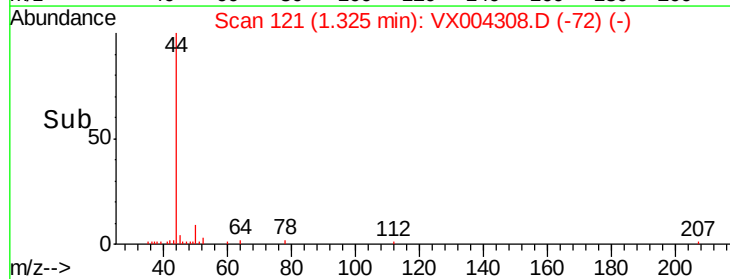
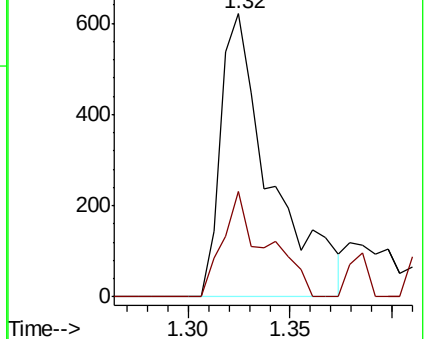
50 100

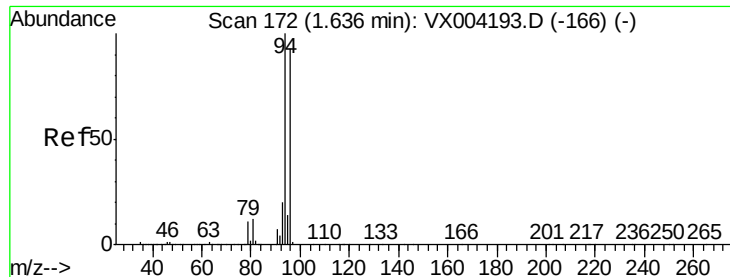
52 37.2 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

Instrument :

MSVOA_X

ClientSampleId :

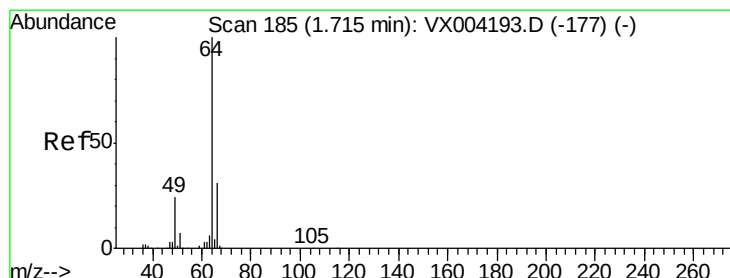
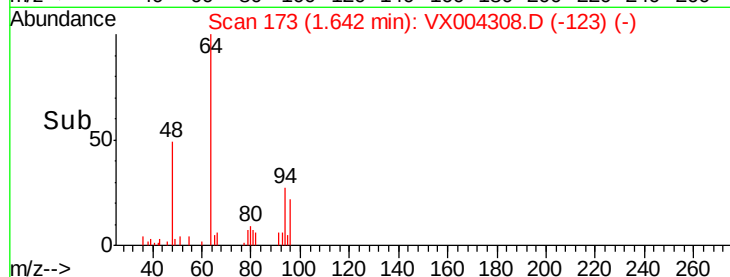
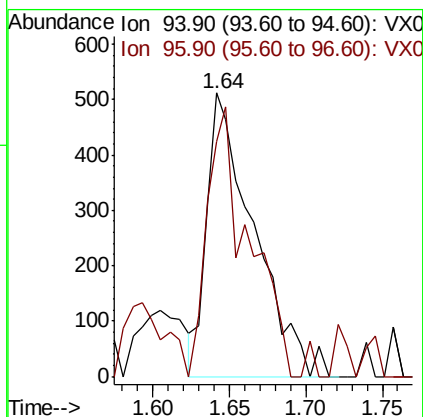
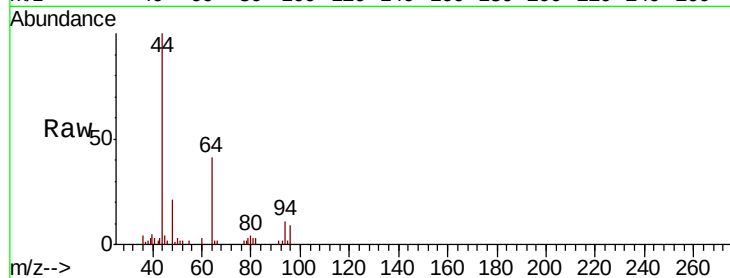
CPA-CPMW11D-M12W4-082218

Tot Ion: 94 Resp: 1095

Ion Ratio Lower Upper

94 100

96 82.8 74.5 111.7



#6

Chloroethane

Concen: 5.29 ug/l

RT: 1.61 min Scan# 168

Delta R.T. -0.10 min

Lab File: VX004308.D

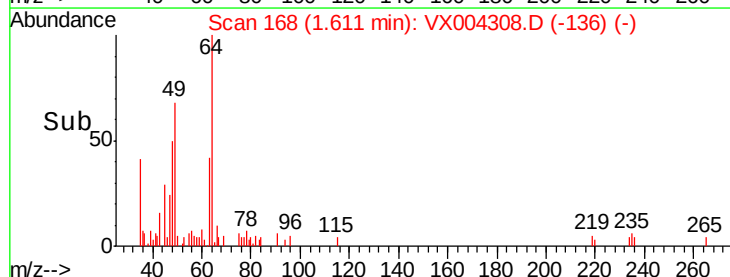
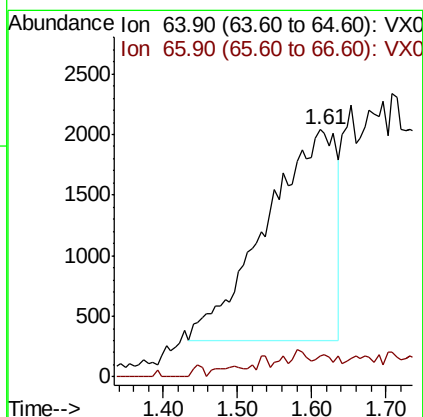
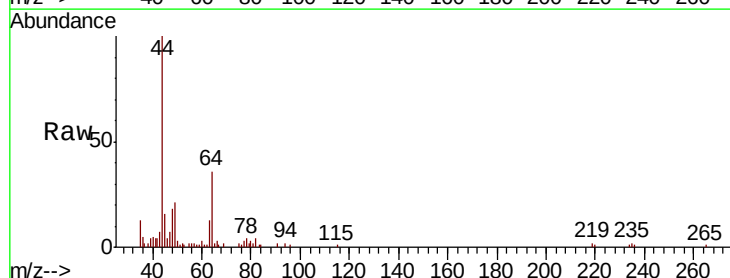
Acq: 29 Aug 2018 22:57

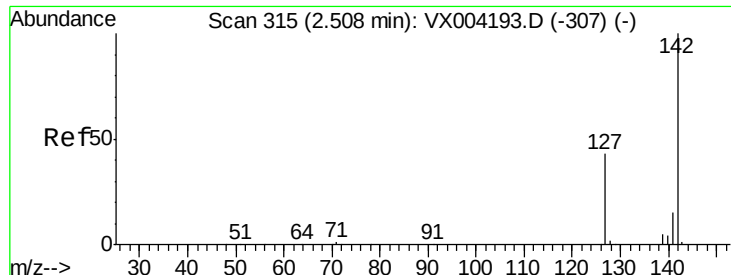
Tgt Ion: 64 Resp: 11466

Ion Ratio Lower Upper

64 100

66 10.2 24.6 36.8#

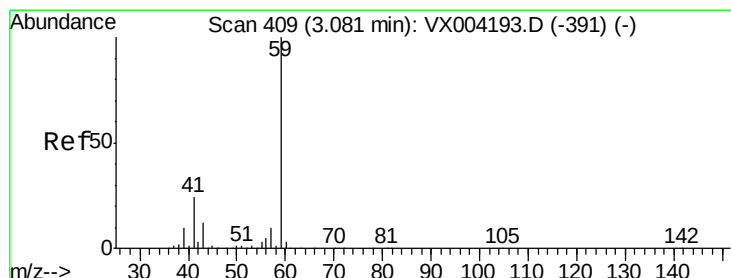
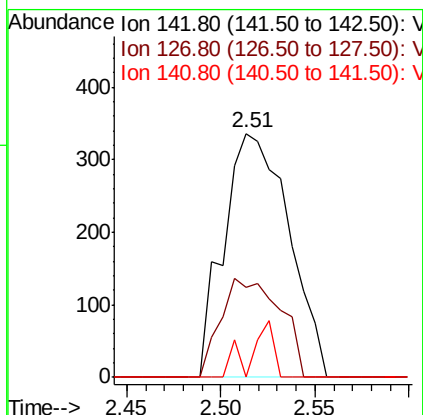
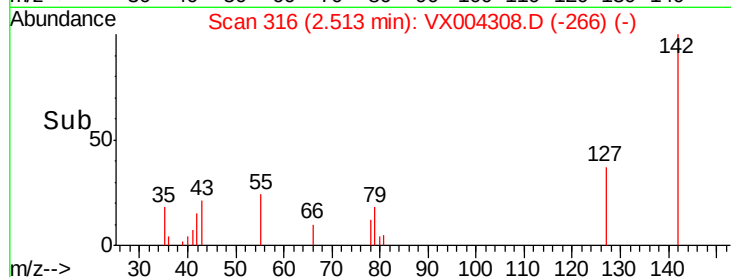
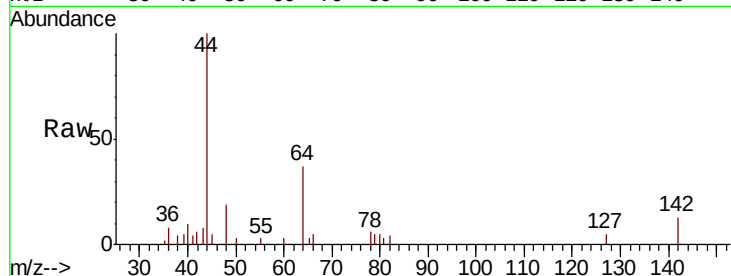




#10
Methyl Iodide
Concen: 4.49 ug/l
RT: 2.51 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX004308.D
Acq: 29 Aug 2018 22:57

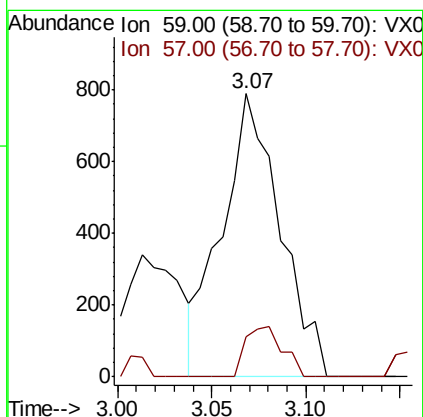
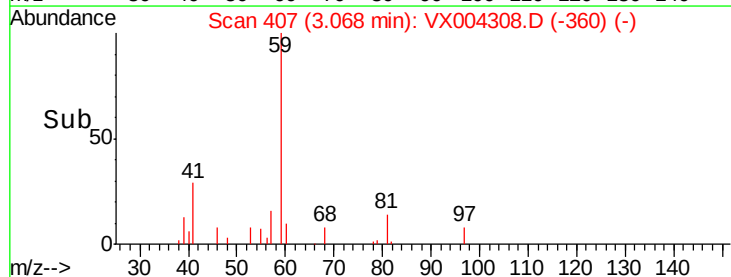
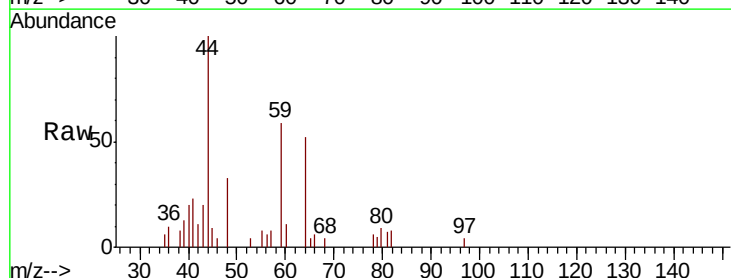
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW11D-M12W4-082218

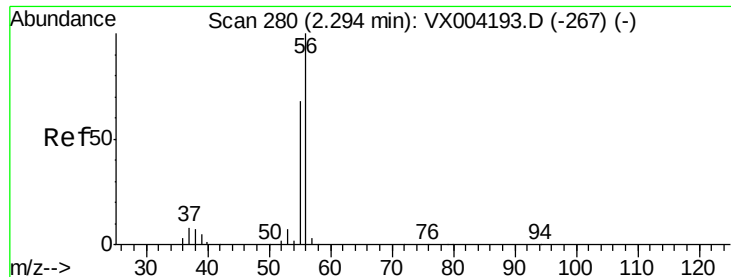
Tot Ion:142 Resp: 805
Ion Ratio Lower Upper
142 100
127 37.0 33.8 50.6
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 2.41 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.01 min
Lab File: VX004308.D
Acq: 29 Aug 2018 22:57

Tgt Ion: 59 Resp: 1688
Ion Ratio Lower Upper
59 100
57 11.4 8.2 12.4





#13

Acrolein

Concen: 0.27 ug/l

RT: 2.28 min Scan# 277

Delta R.T. -0.02 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

Instrument :

MSVOA_X

ClientSampleId :

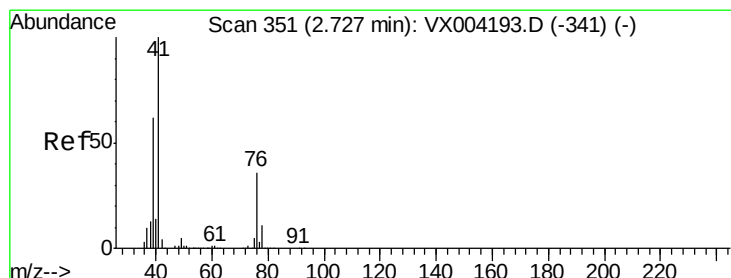
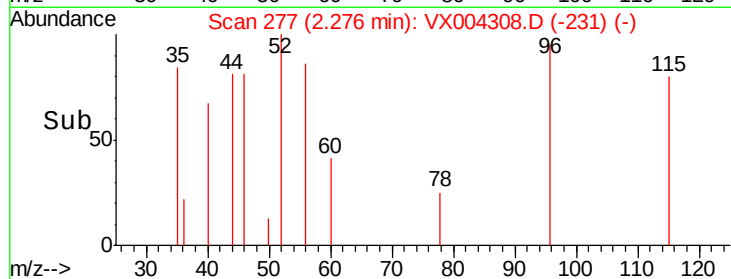
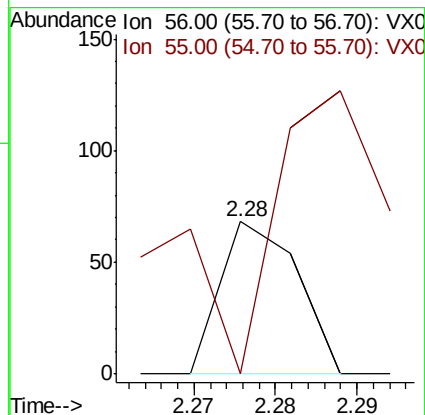
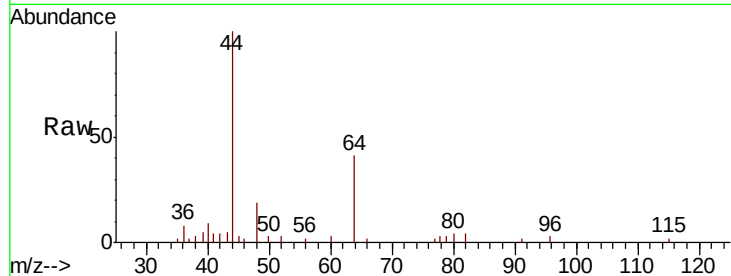
CPA-CPMW11D-M12W4-082218

Tot Ion: 56 Resp: 45

Ion Ratio Lower Upper

56 100

55 502.2 54.7 82.1#



#14

Allyl chloride

Concen: 0.34 ug/l

RT: 2.71 min Scan# 349

Delta R.T. -0.01 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

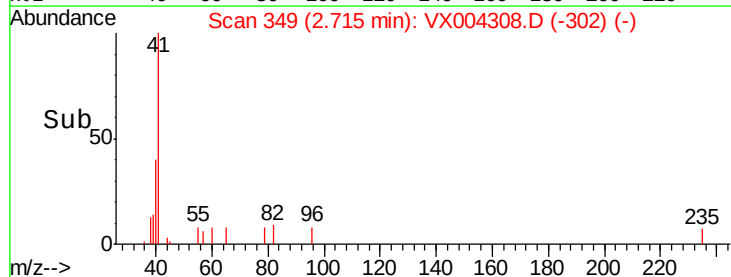
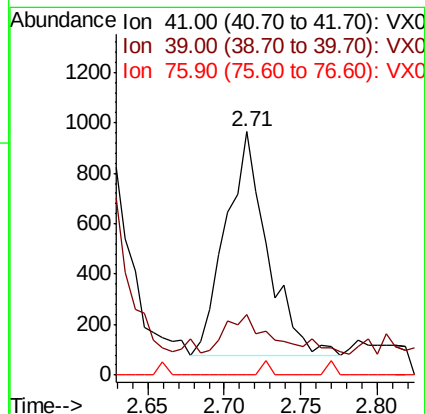
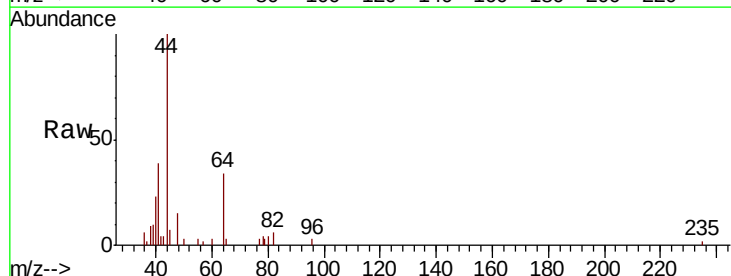
Tgt Ion: 41 Resp: 1692

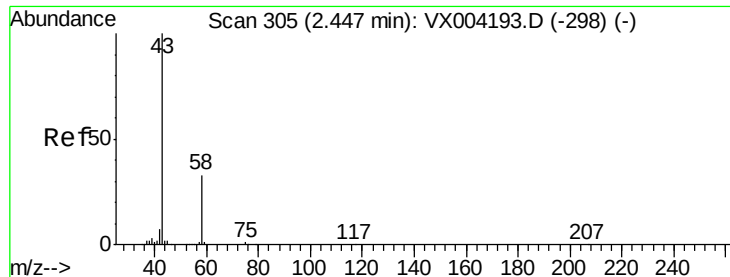
Ion Ratio Lower Upper

41 100

39 16.0 48.9 73.3#

76 0.0 26.7 40.1#





#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

Instrument :

MSVOA_X

ClientSampleId :

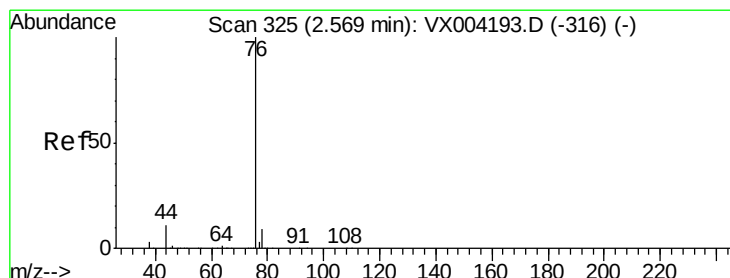
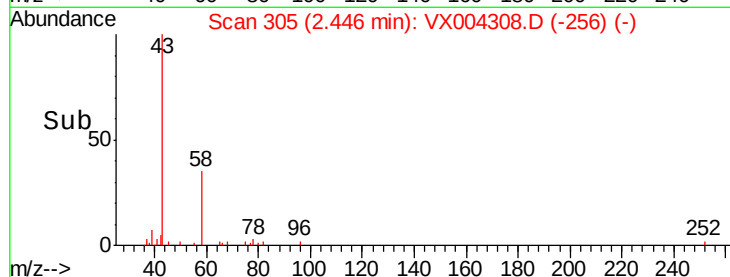
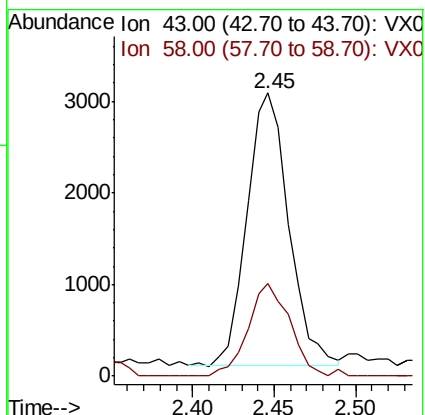
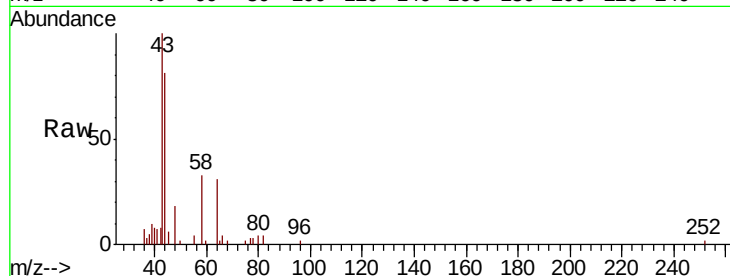
CPA-CPMW11D-M12W4-082218

Tot Ion: 43 Resp: 5240

Ion Ratio Lower Upper

43 100

58 34.3 26.2 39.4



#17

Carbon Disulfide

Concen: 0.96 ug/l

RT: 2.56 min Scan# 324

Delta R.T. -0.01 min

Lab File: VX004308.D

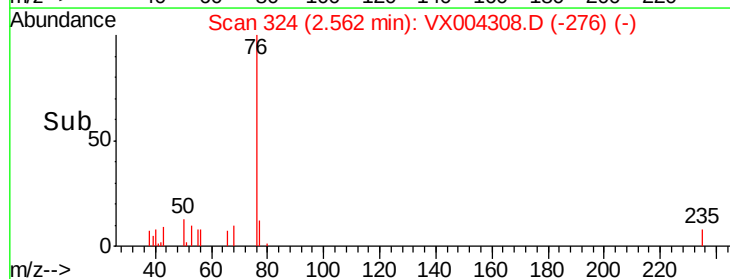
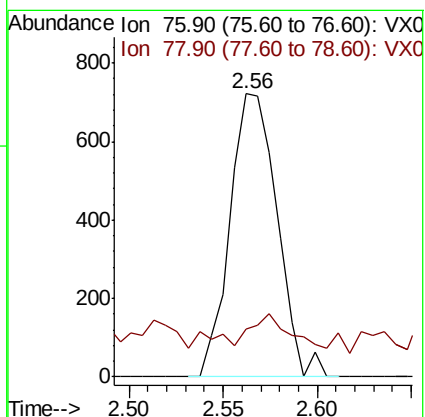
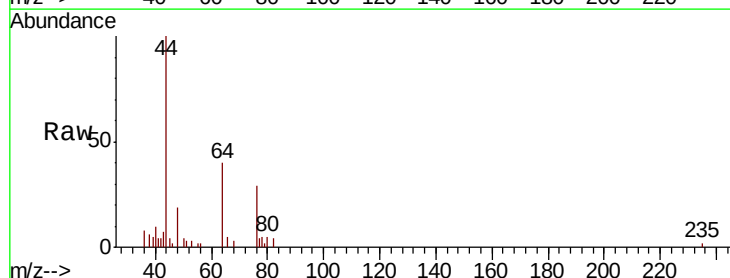
Acq: 29 Aug 2018 22:57

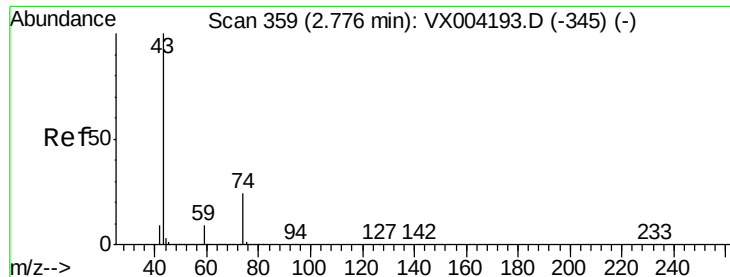
Tgt Ion: 76 Resp: 1250

Ion Ratio Lower Upper

76 100

78 6.8 7.0 10.6#

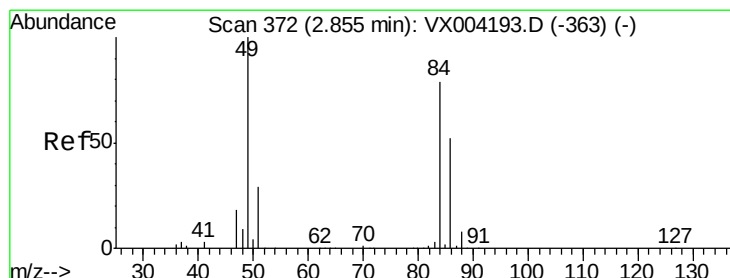
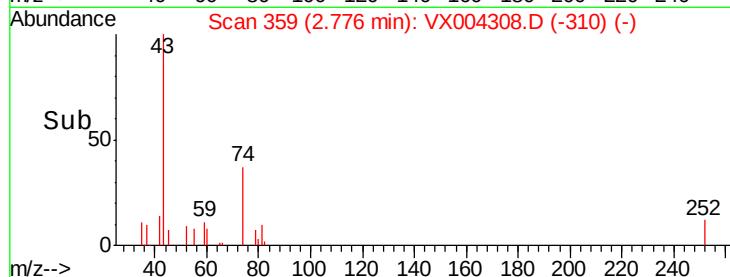
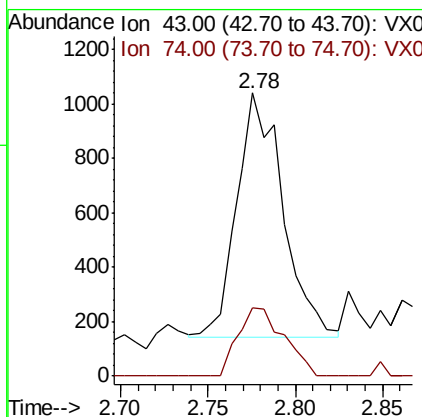
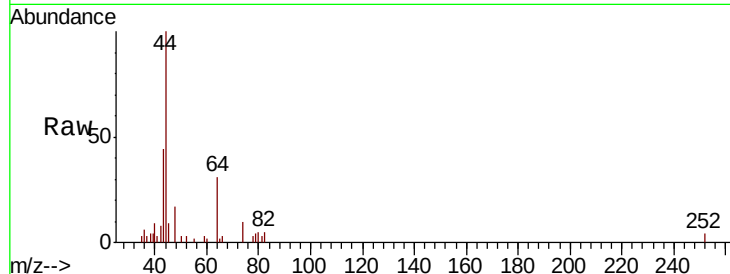




#18
Methvl Acetate
Concen: 0.34 ug/l
RT: 2.78 min Scan# 359
Delta R.T. -0.00 min
Lab File: VX004308.D
Acq: 29 Aug 2018 22:57

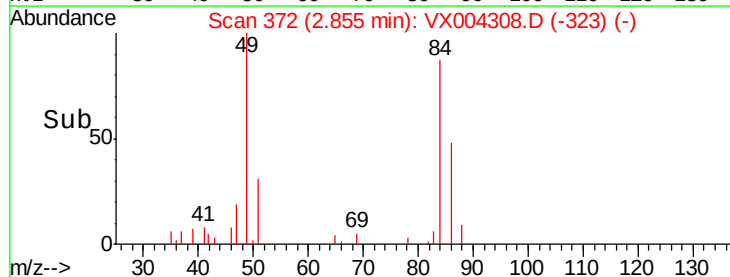
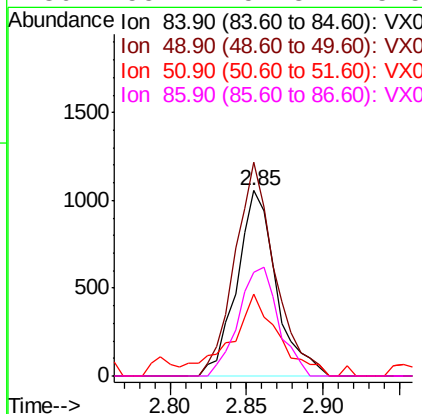
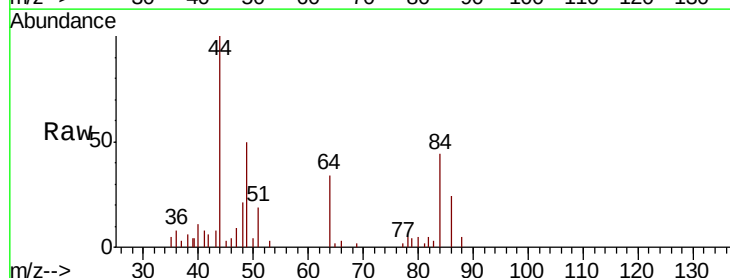
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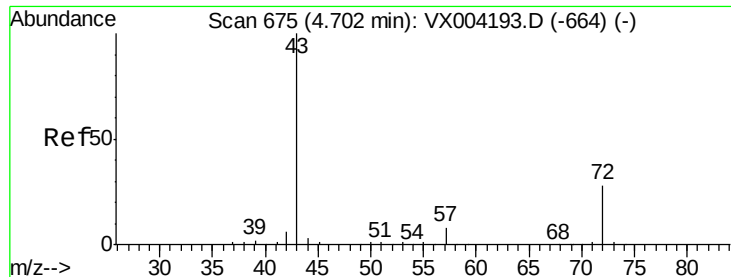
Tot Ion: 43 Resp: 1649
Ion Ratio Lower Upper
43 100
74 27.7 19.4 29.2



#20
Methylene Chloride
Concen: 0.60 ug/l
RT: 2.85 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX004308.D
Acq: 29 Aug 2018 22:57

Tgt Ion: 84 Resp: 1888
Ion Ratio Lower Upper
84 100
49 115.3 101.2 151.8
51 44.0 29.5 44.3
86 55.7 52.3 78.5





#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

Instrument :

MSVOA_X

ClientSampleId :

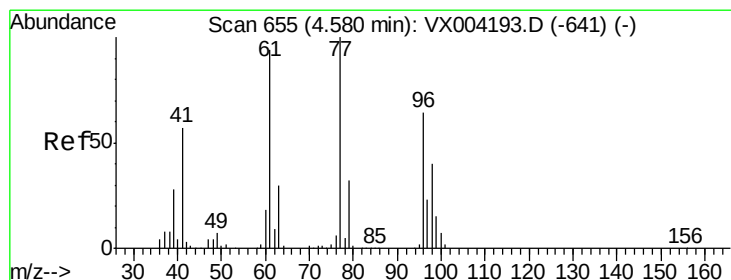
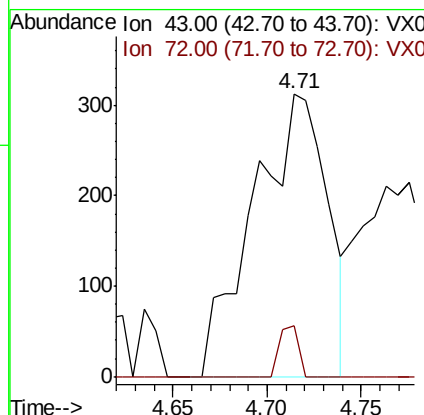
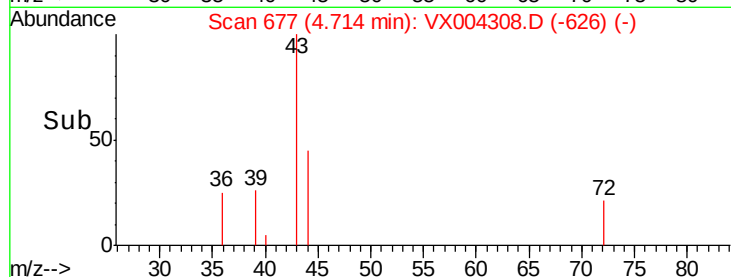
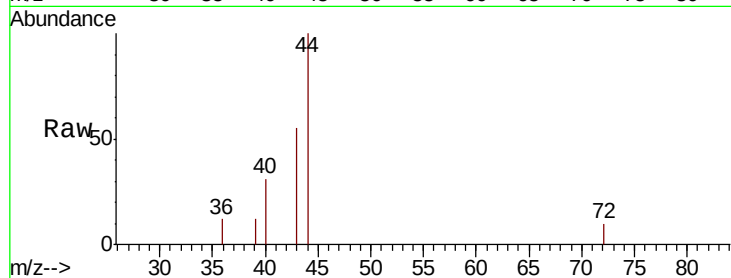
CPA-CPMW11D-M12W4-082218

Tot Ion: 43 Resp: 847

Ion Ratio Lower Upper

43 100

72 17.9 22.0 33.0#



#26

2,2-Dichloropropane

Concen: 0.25 ug/l

RT: 4.77 min Scan# 686

Delta R.T. 0.19 min

Lab File: VX004308.D

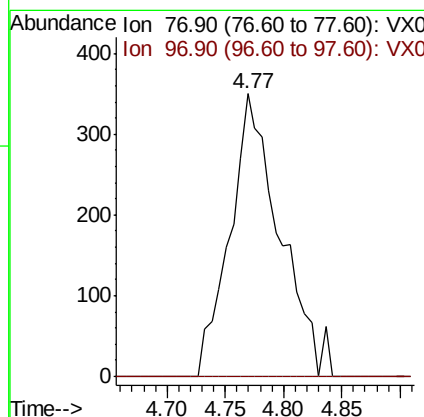
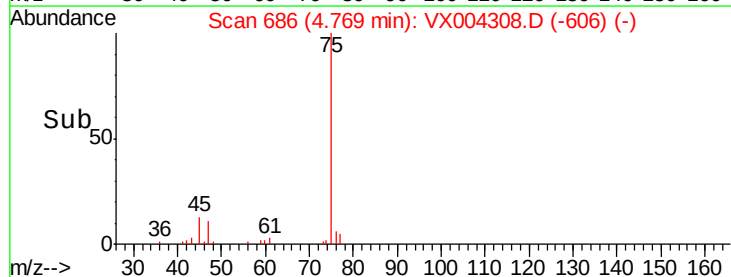
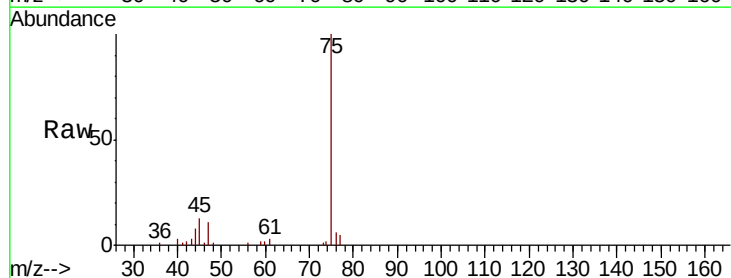
Acq: 29 Aug 2018 22:57

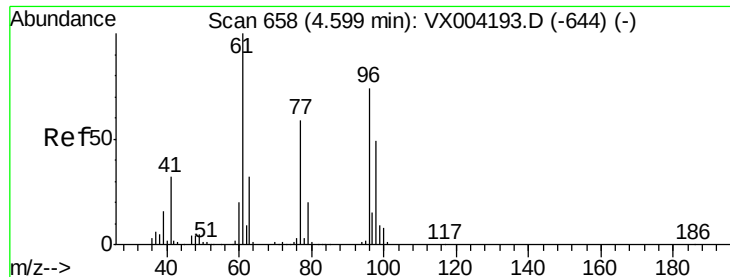
Tgt Ion: 77 Resp: 1042

Ion Ratio Lower Upper

77 100

97 0.0 11.7 35.0#





#27

cis-1,2-Dichloroethene

Concen: 0.24 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW11D-M12W4-082218

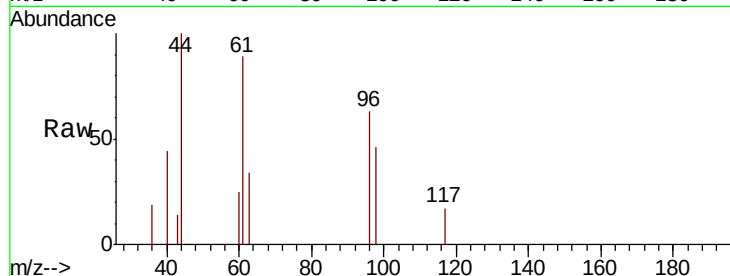
Tot Ion: 96 Resp: 816

Ion Ratio Lower Upper

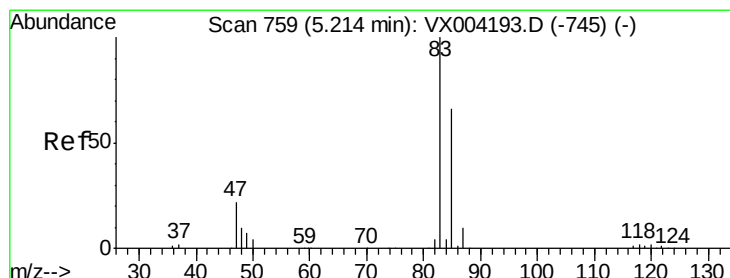
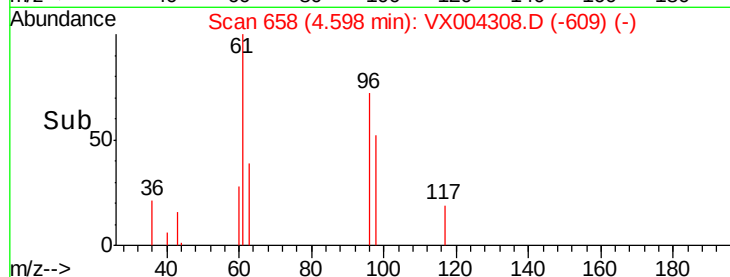
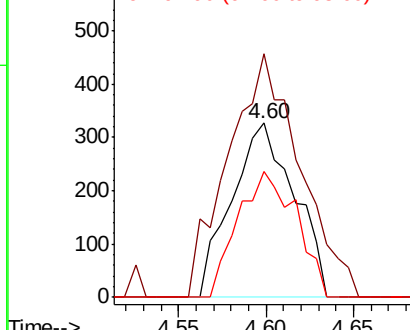
96 100

61 160.0 0.0 282.6

98 67.3 0.0 130.2



Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



#30

Chloroform

Concen: 0.70 ug/l

RT: 5.21 min Scan# 759

Delta R.T. -0.00 min

Lab File: VX004308.D

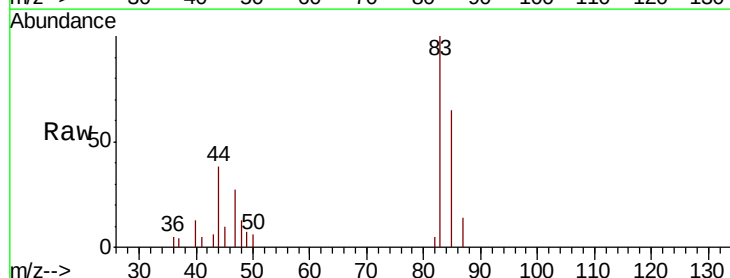
Acq: 29 Aug 2018 22:57

Tgt Ion: 83 Resp: 3764

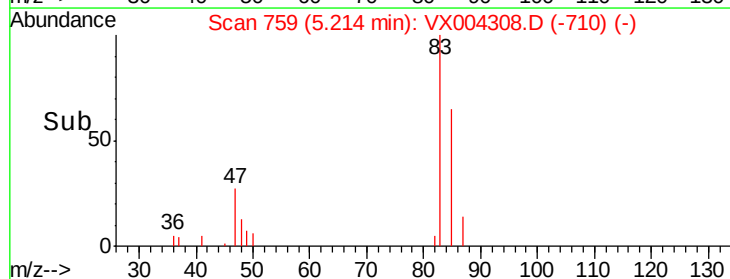
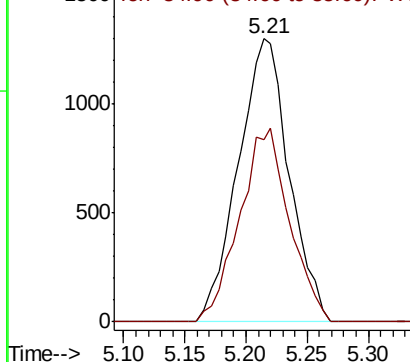
Ion Ratio Lower Upper

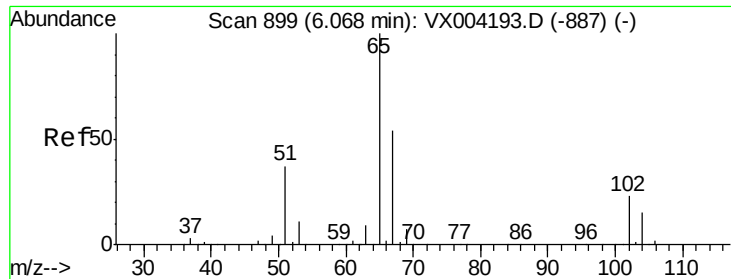
83 100

85 64.6 52.6 79.0



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0

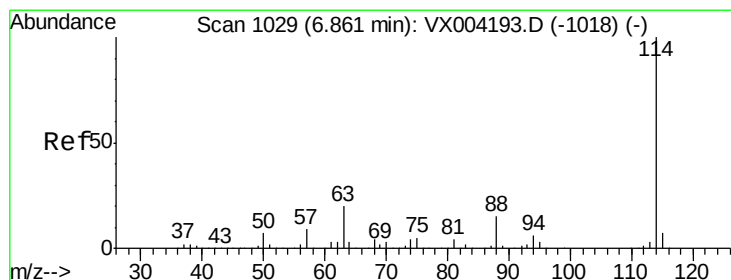
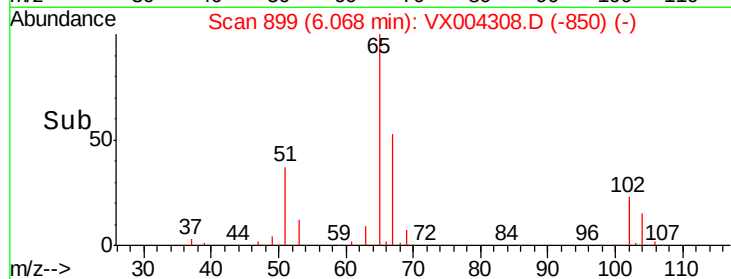
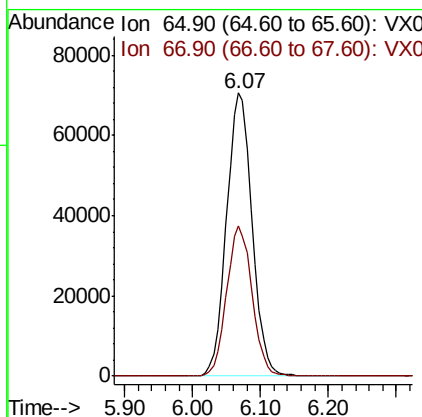
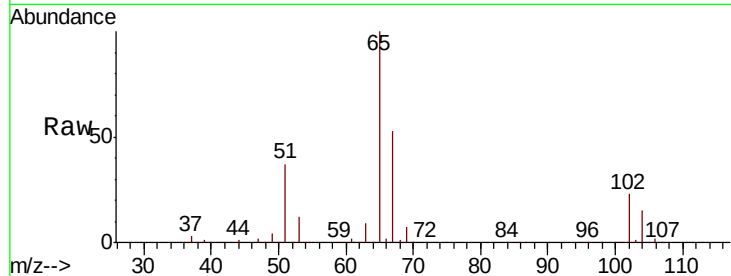




#33
 1,2-Dichloroethane-d4
 Concen: 55.62 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.00 min
 Lab File: VX004308.D
 Acq: 29 Aug 2018 22:57

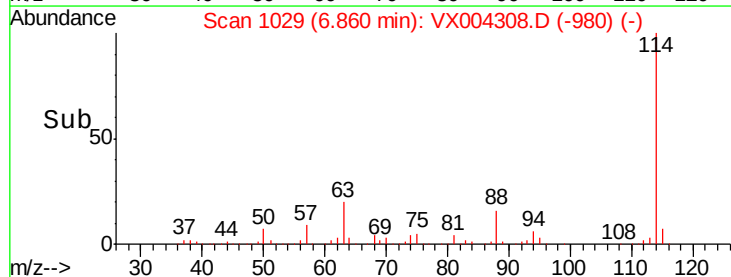
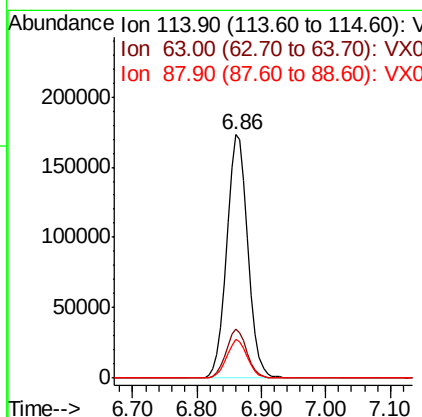
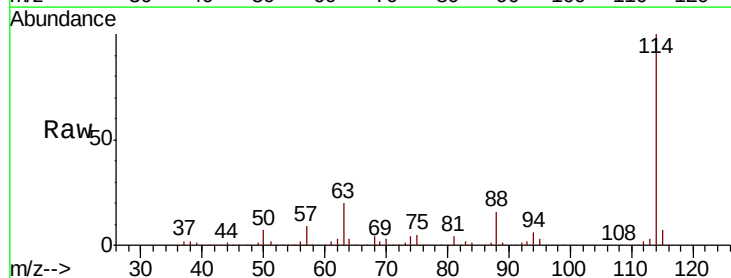
Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW11D-M12W4-082218

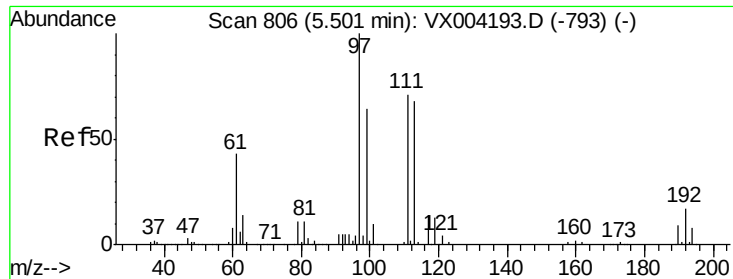
Tot Ion: 65 Resp: 182928
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004308.D
 Acq: 29 Aug 2018 22:57

Tgt Ion: 114 Resp: 401027
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 39.0
 88 15.7 0.0 30.4

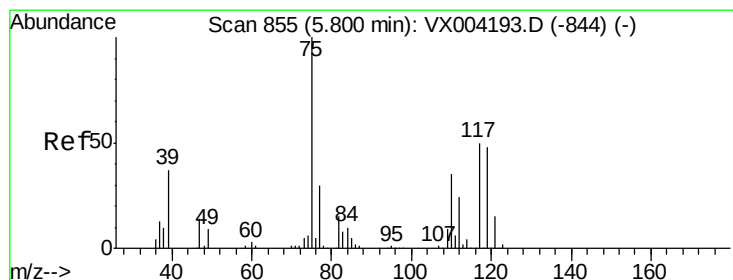
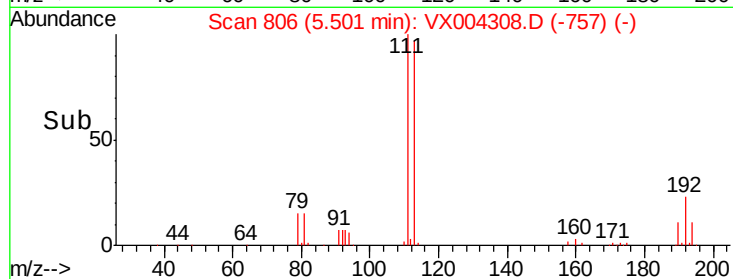
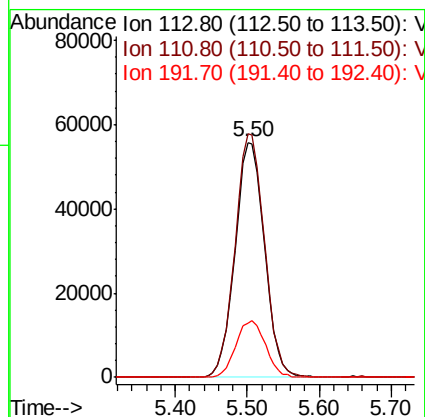
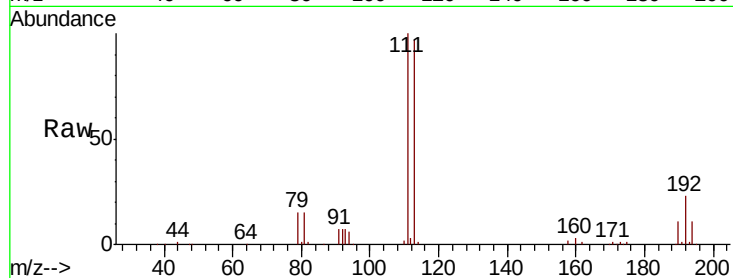




#35
 Dibromofluoromethane
 Concen: 53.12 ug/l
 RT: 5.50 min Scan# 806
 Delta R.T. -0.00 min
 Lab File: VX004308.D
 Acq: 29 Aug 2018 22:57

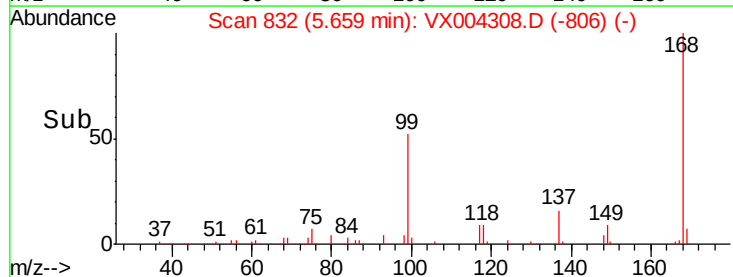
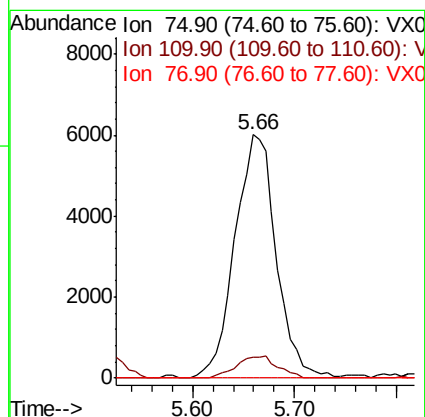
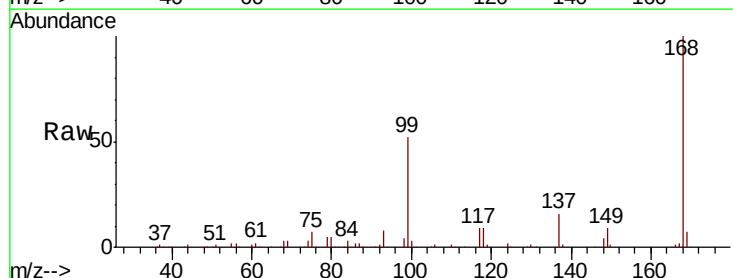
Instrument :
 MSVOA_X
 ClientSampleId :
 CPA-CPMW11D-M12W4-082218

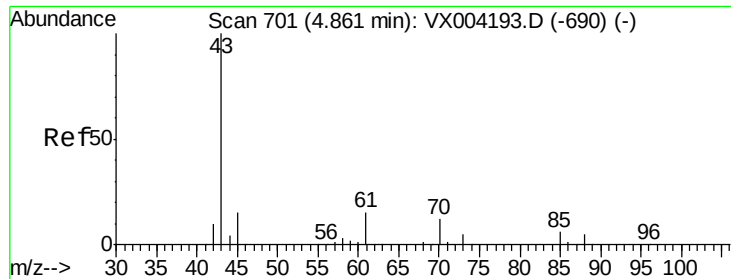
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.4	123.6
192	24.4	19.4	29.2



#36
 1,1-Dichloropropene
 Concen: 3.74 ug/l
 RT: 5.66 min Scan# 832
 Delta R.T. -0.14 min
 Lab File: VX004308.D
 Acq: 29 Aug 2018 22:57

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.0	18.0	54.0#
77	0.0	24.6	36.8#





#37

Ethyl Acetate

Concen: 3.04 ug/l

RT: 4.87 min Scan# 702

Delta R.T. 0.01 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW11D-M12W4-082218

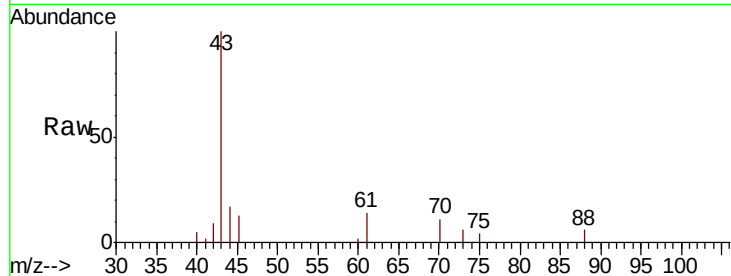
Tot Ion: 43 Resp: 13458

Ion Ratio Lower Upper

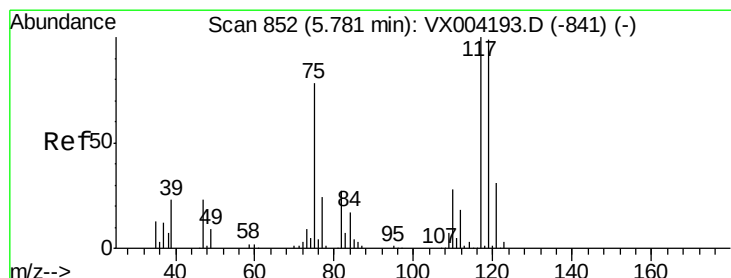
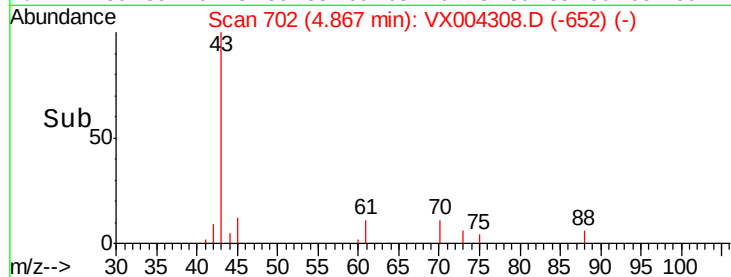
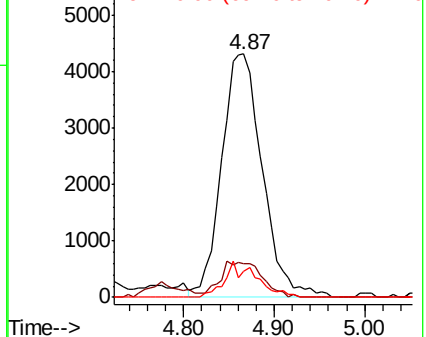
43 100

61 15.1 11.5 17.3

70 11.5 9.0 13.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 5.24 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

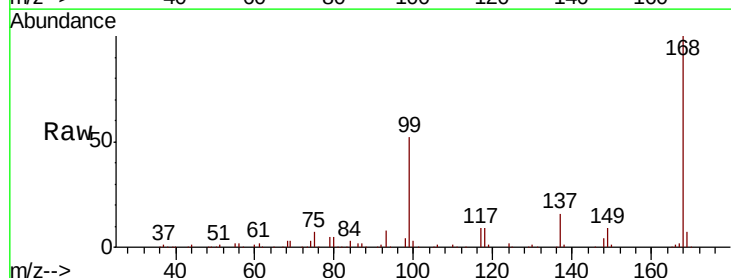
Tgt Ion: 117 Resp: 22209

Ion Ratio Lower Upper

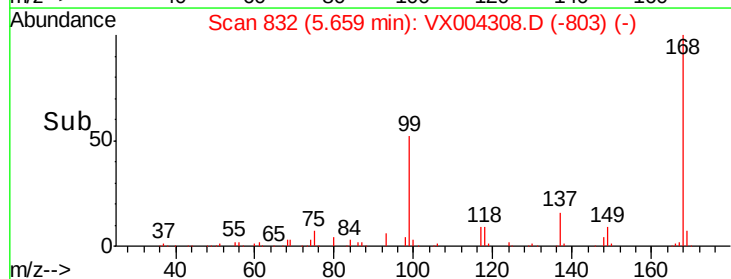
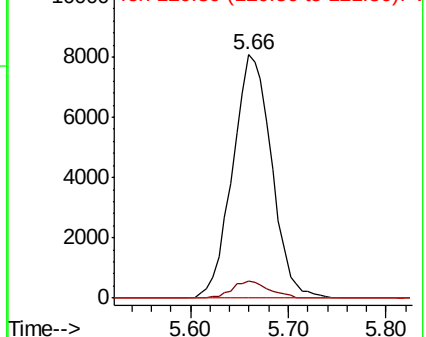
117 100

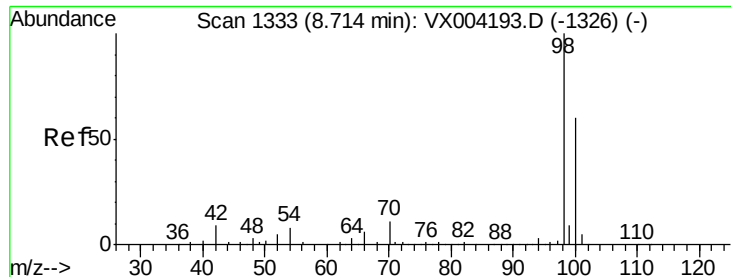
119 6.8 78.8 118.2#

121 0.0 24.9 37.3#



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

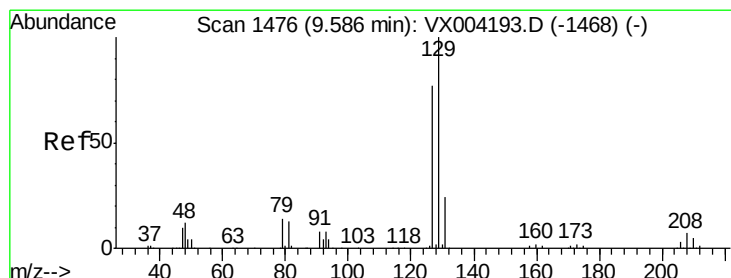
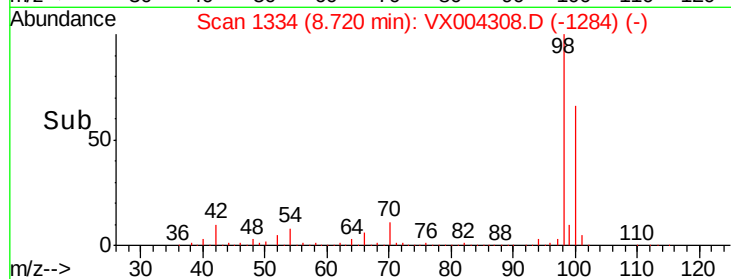
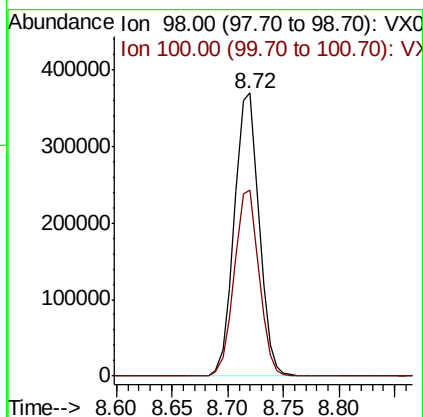
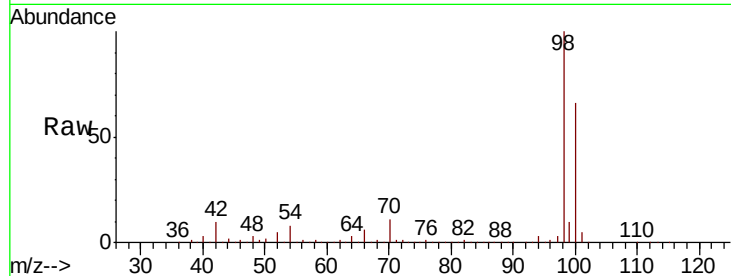




#50
Toluene-d8
Concen: 50.78 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.01 min
Lab File: VX004308.D
Acq: 29 Aug 2018 22:57

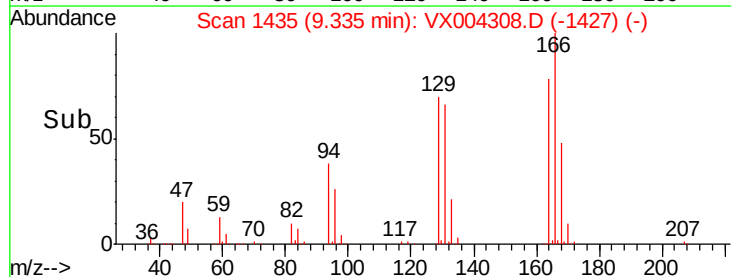
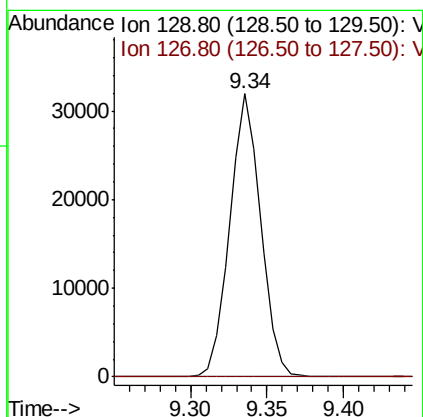
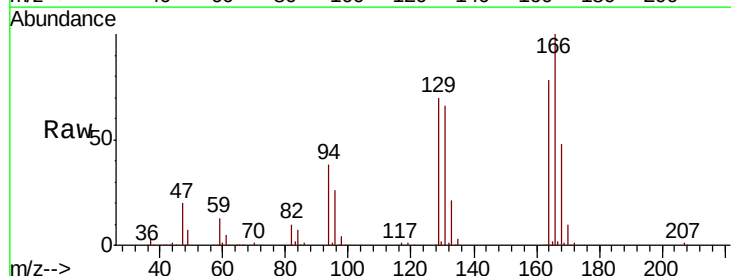
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW11D-M12W4-082218

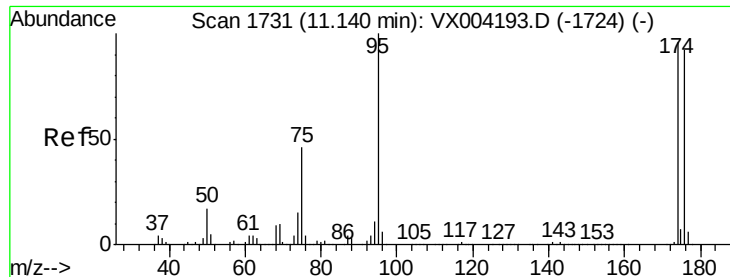
Tot Ion: 98 Resp: 571881
Ion Ratio Lower Upper
98 100
100 65.7 52.9 79.3



#60
Dibromochloromethane
Concen: 13.46 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.25 min
Lab File: VX004308.D
Acq: 29 Aug 2018 22:57

Tgt Ion: 129 Resp: 44637
Ion Ratio Lower Upper
129 100
127 0.0 38.5 115.5#

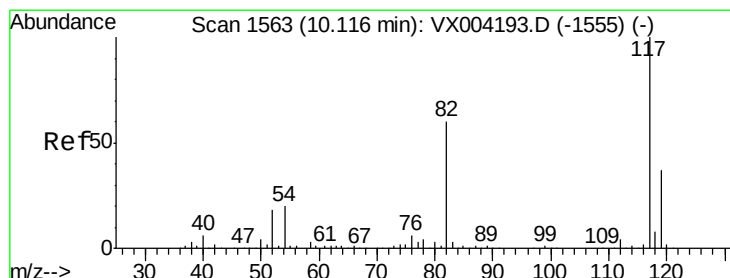
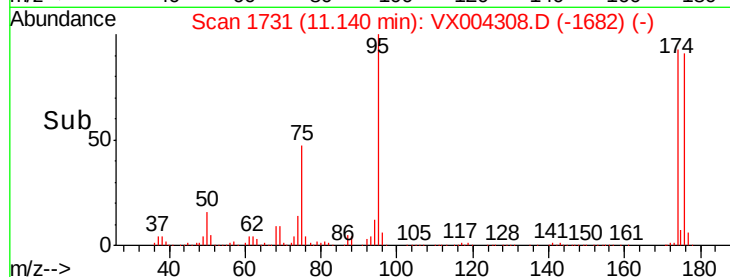
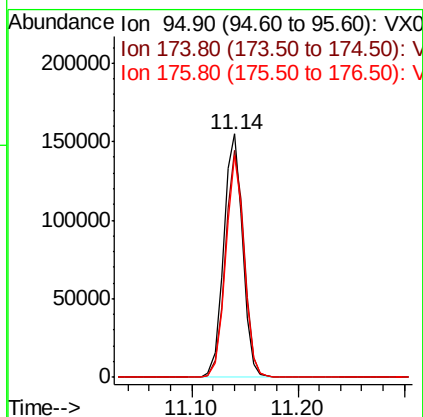
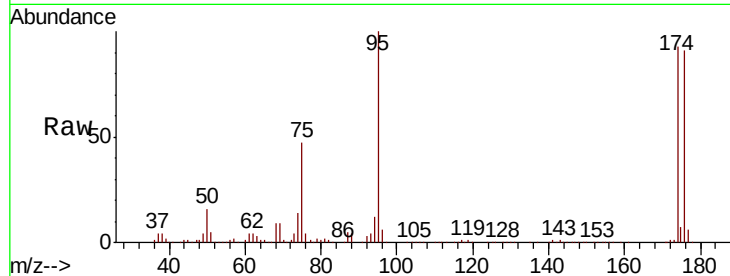




#62
4-Bromofluorobenzene
Concen: 45.93 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. -0.00 min
Lab File: VX004308.D
Acq: 29 Aug 2018 22:57

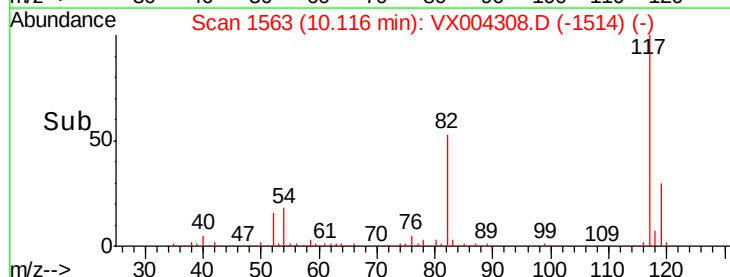
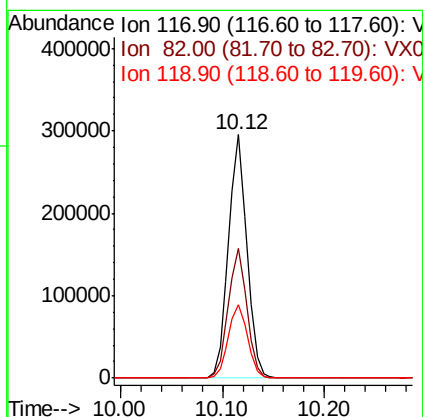
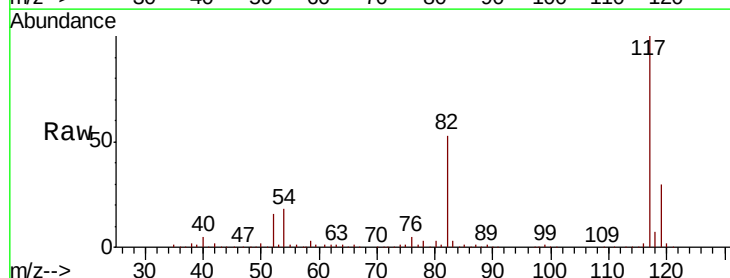
Instrument :
MSVOA_X
ClientSampleId :
CPA-CPMW11D-M12W4-082218

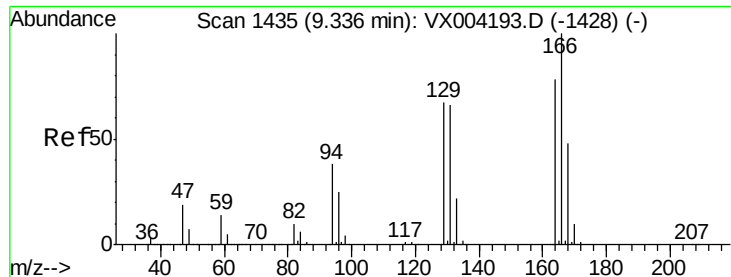
Tot Ion: 95 Resp: 192980
Ion Ratio Lower Upper
95 100
174 93.3 0.0 185.2
176 88.7 0.0 178.6



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004308.D
Acq: 29 Aug 2018 22:57

Tgt Ion: 117 Resp: 368860
Ion Ratio Lower Upper
117 100
82 53.3 47.8 71.6
119 30.0 29.3 43.9





#64

Tetrachloroethene

Concen: 13.78 ug/l

RT: 9.34 min Scan# 1435

Delta R.T. -0.00 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW11D-M12W4-082218

Tot Ion:164 Resp: 50213

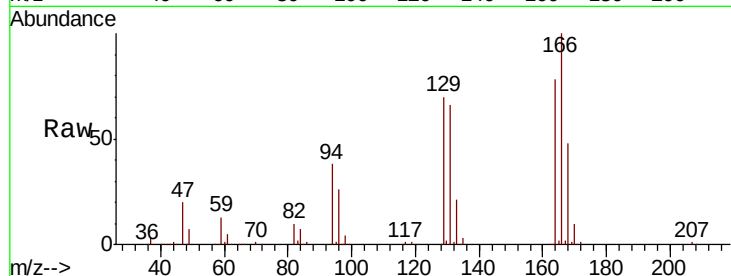
Ion Ratio Lower Upper

164 100

166 128.8 102.8 154.2

129 90.6 69.4 104.0

131 84.4 67.9 101.9

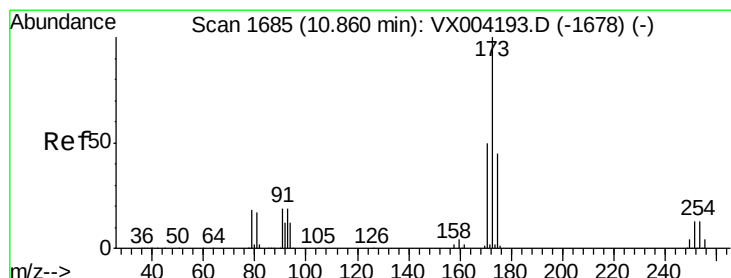
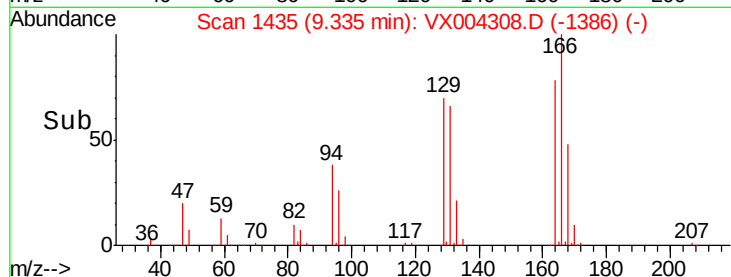
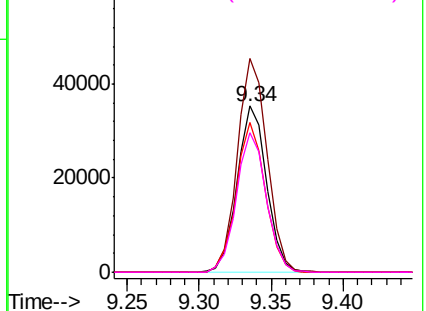


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 0.74 ug/l

RT: 10.86 min Scan# 1685

Delta R.T. -0.00 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

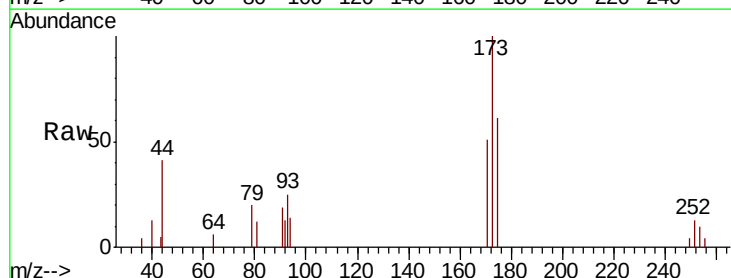
Tgt Ion:173 Resp: 1901

Ion Ratio Lower Upper

173 100

175 52.3 24.1 72.3

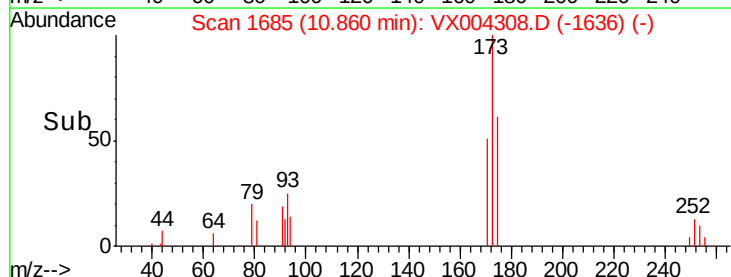
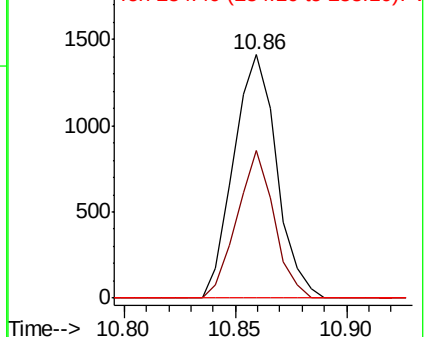
254 0.0 0.2 0.2#

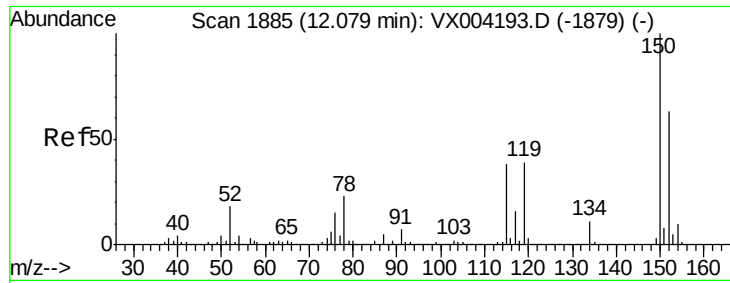


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW11D-M12W4-082218

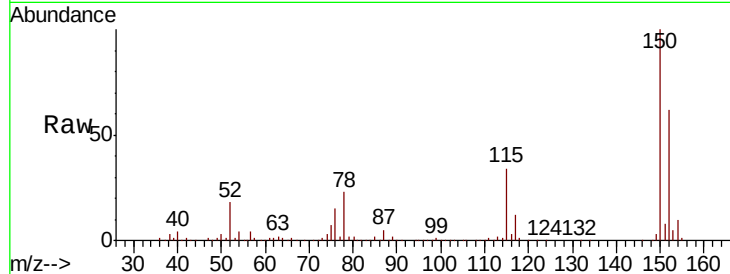
Tot Ion:152 Resp: 187313

Ion Ratio Lower Upper

152 100

115 54.7 39.0 117.0

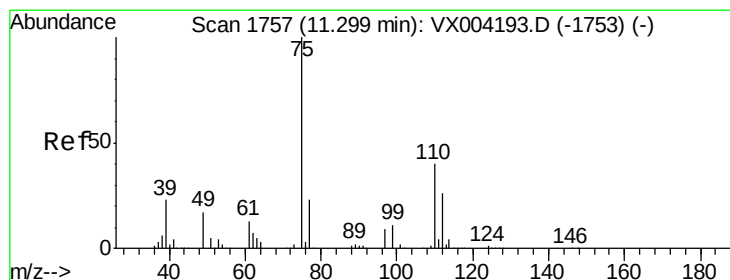
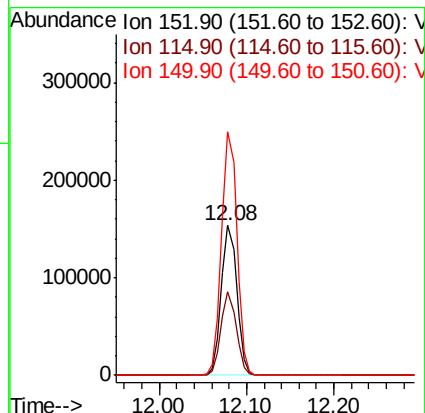
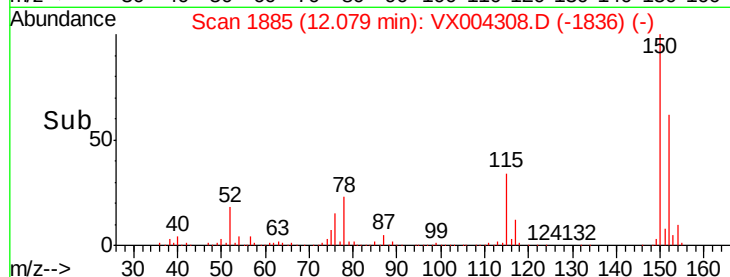
150 161.8 0.0 351.0



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



#76

1,2,3-Trichloropropane

Concen: 24.12 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004308.D

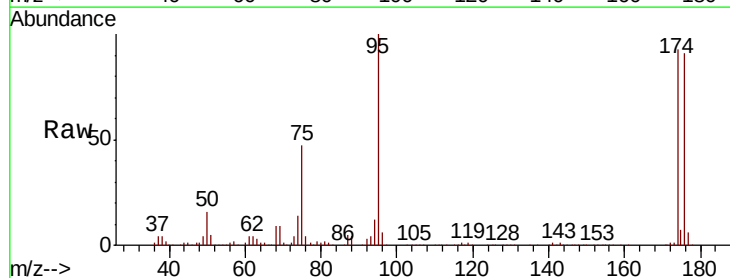
Acq: 29 Aug 2018 22:57

Tgt Ion: 75 Resp: 91904

Ion Ratio Lower Upper

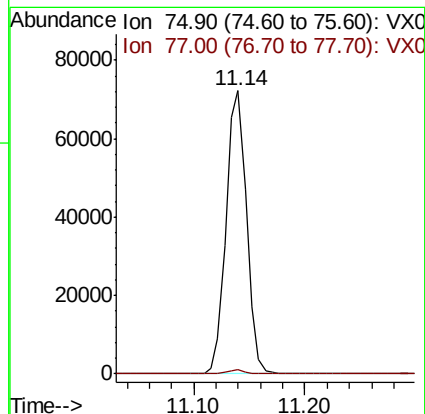
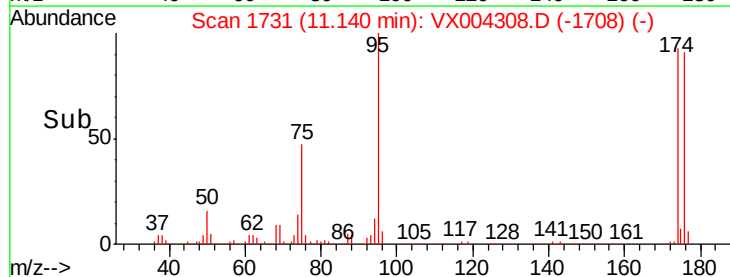
75 100

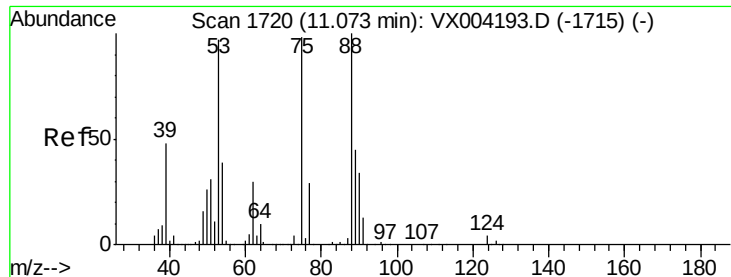
77 1.4 20.2 60.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 78.27 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004308.D

Acq: 29 Aug 2018 22:57

Instrument :

MSVOA_X

ClientSampleId :

CPA-CPMW11D-M12W4-082218

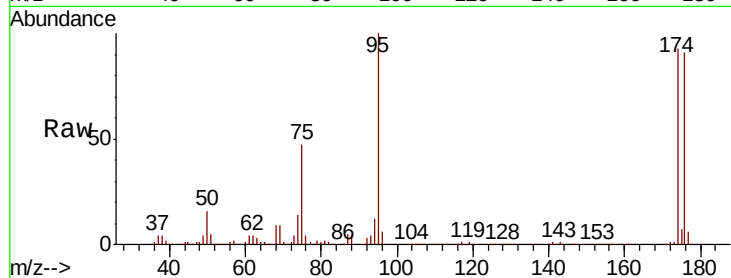
Tot Ion: 75 Resp: 91904

Ion Ratio Lower Upper

75 100

53 0.3 80.1 120.1#

89 0.0 37.2 55.8#



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

