

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX011819\
 Data File : VX007141.D
 Acq On : 18 Jan 2019 18:02
 Operator : JC/SP
 Sample : K1199-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SA-TW518-4246

Quant Time: Jan 18 21:53:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	560756	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	866382	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	808362	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	402183	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	297332	50.74	ug/l	0.00
Spiked Amount			Recovery	=	101.48%	
35) Dibromofluoromethane	5.51	113	265320	47.82	ug/l	0.00
Spiked Amount			Recovery	=	95.64%	
50) Toluene-d8	8.71	98	1026779	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
62) 4-Bromofluorobenzene	11.13	95	373237	52.72	ug/l	0.00
Spiked Amount			Recovery	=	105.44%	

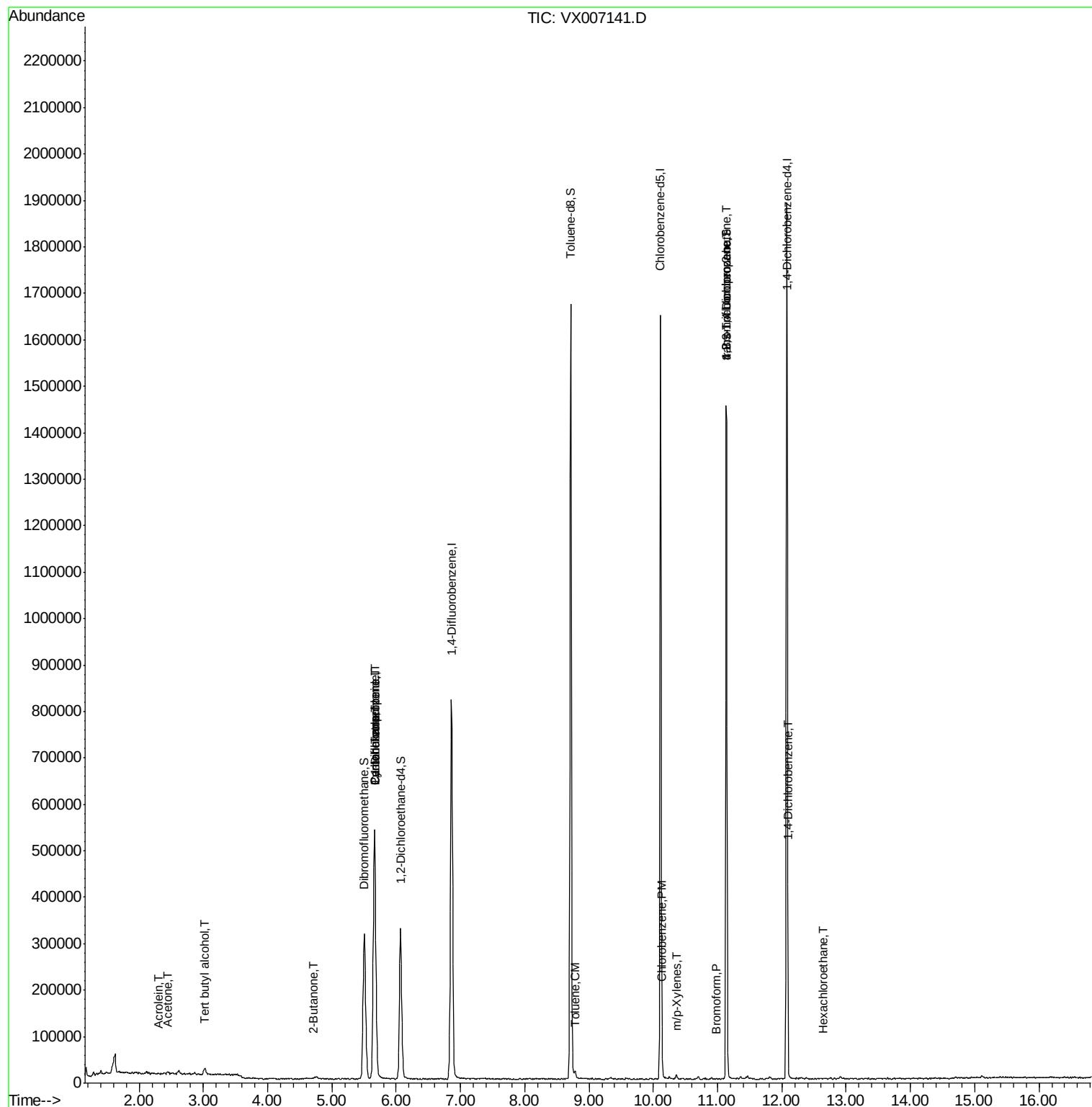
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	3.02	59	9282	6.714	ug/l #	82
13) Acrolein	2.30	56	253	3.503	ug/l #	19
16) Acetone	2.45	43	5214	1.800	ug/l	99
20) Methylene Chloride	2.85	84	1824	Below Cal	#	90
25) 2-Butanone	4.71	43	851	0.205	ug/l #	47
31) Cyclohexane	5.67	56	9571	1.158	ug/l #	1
36) 1,1-Dichloropropene	5.67	75	34817	4.622	ug/l #	50
38) Carbon Tetrachloride	5.66	117	50950	6.723	ug/l #	15
49) 1,4-Dioxane	7.75	88	89	Below Cal	#	1
52) Toluene	8.79	92	5397	0.365	ug/l	89
65) Chlorobenzene	10.14	112	6788	0.385	ug/l #	87
68) m/p-Xylenes	10.35	106	2490	0.217	ug/l	89
71) Bromoform	10.99	173	117	4.748	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	177440	21.772	ug/l #	40
81) trans-1,4-Dichloro-2-buten	11.13	75	177440	64.516	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	836	0.207	ug/l #	26
90) Hexachloroethane	12.64	117	43	2.918	ug/l	75

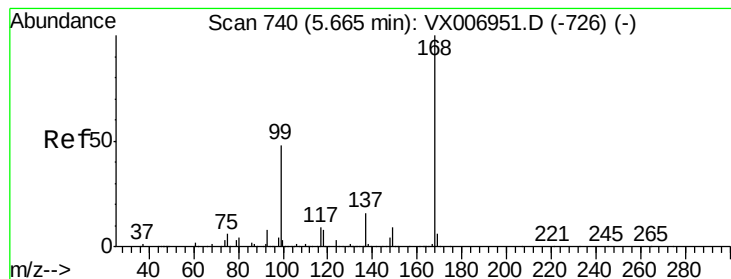
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007141.D

Acq: 18 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

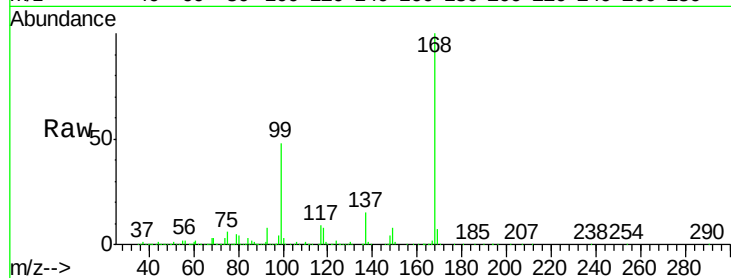
SA-TW518-4246

Tot Ion:168 Resp: 560756

Ion Ratio Lower Upper

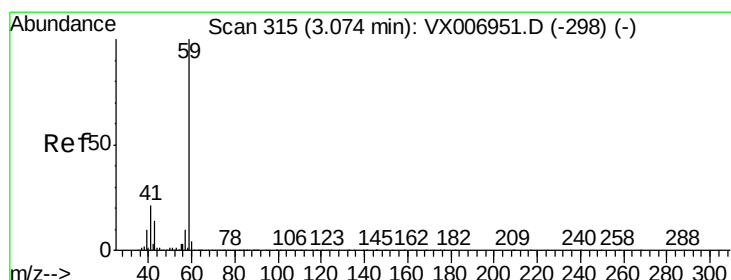
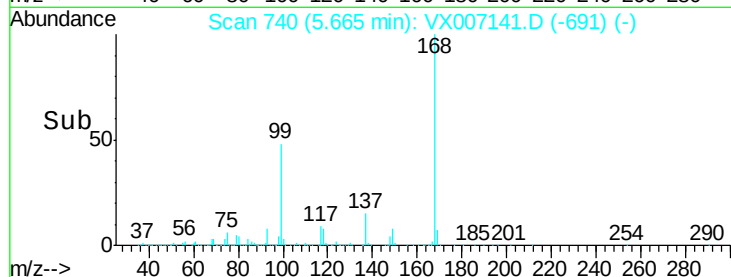
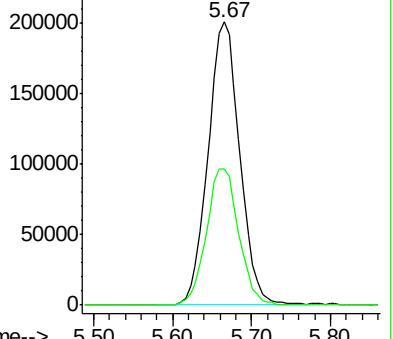
168 100

99 48.0 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#11

Tert butyl alcohol

Concen: 6.714 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX007141.D

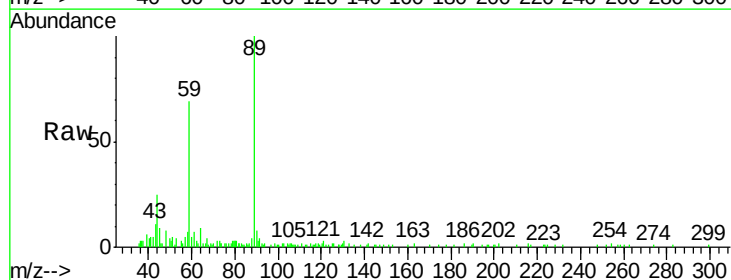
Acq: 18 Jan 2019 18:02

Tgt Ion: 59 Resp: 9282

Ion Ratio Lower Upper

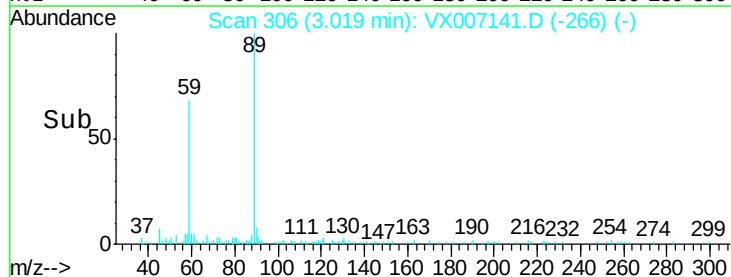
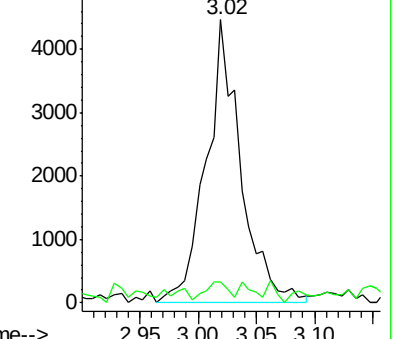
59 100

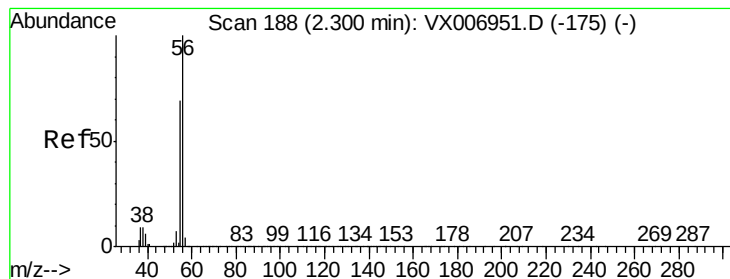
57 3.9 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 3.503 ug/l

RT: 2.30 min Scan# 188

Delta R.T. -0.00 min

Lab File: VX007141.D

Acq: 18 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

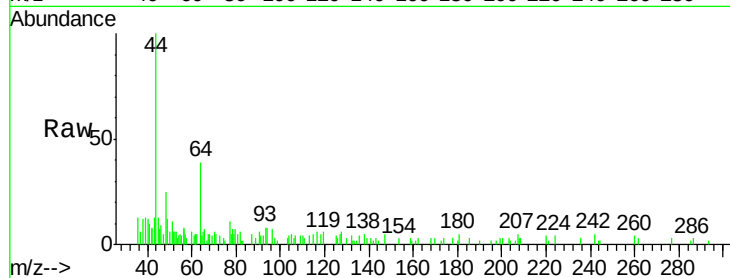
SA-TW518-4246

Tot Ion: 56 Resp: 253

Ion Ratio Lower Upper

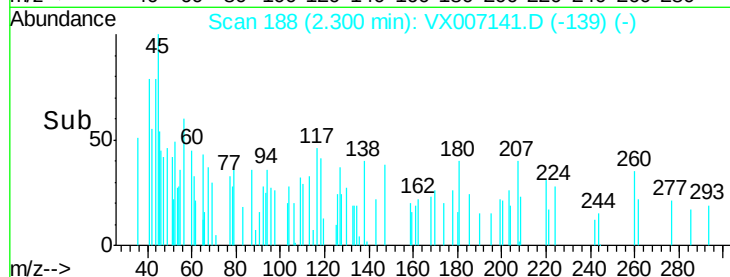
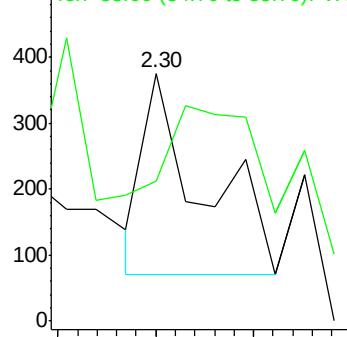
56 100

55 140.3 58.2 87.4#

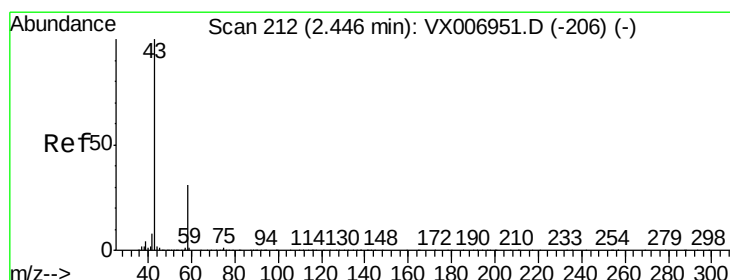


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 1.800 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007141.D

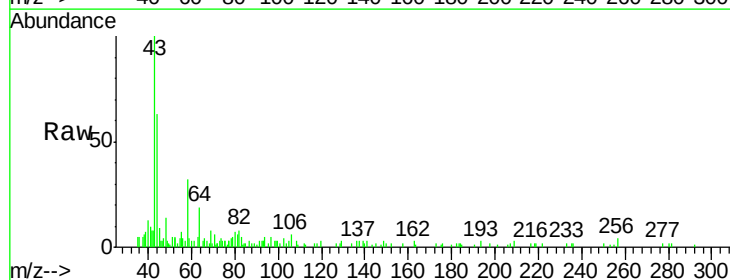
Acq: 18 Jan 2019 18:02

Tgt Ion: 43 Resp: 5214

Ion Ratio Lower Upper

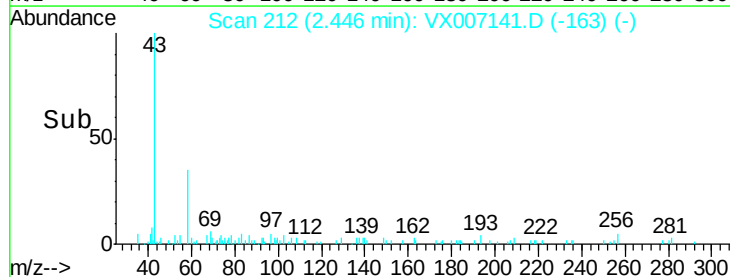
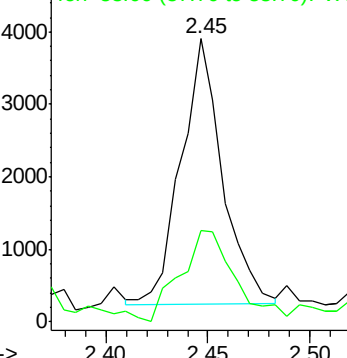
43 100

58 30.9 25.0 37.6

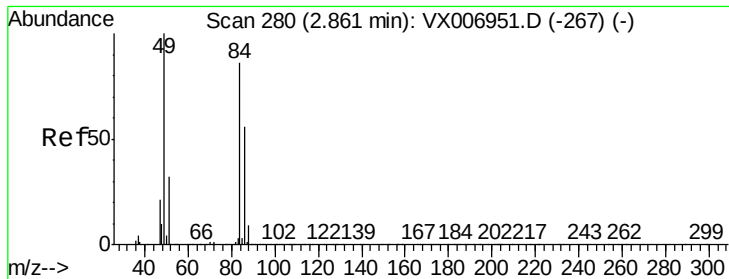


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



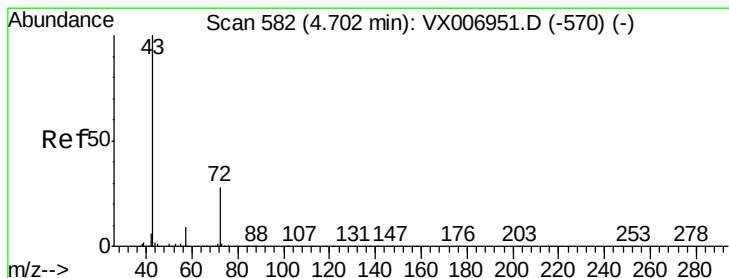
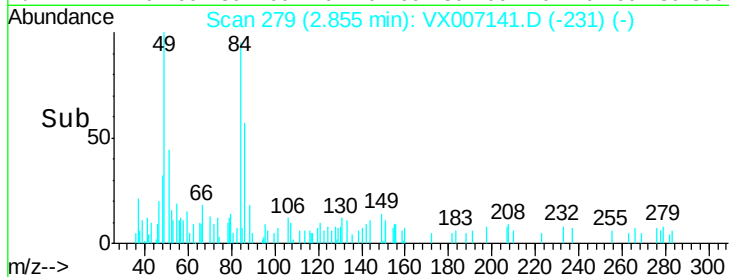
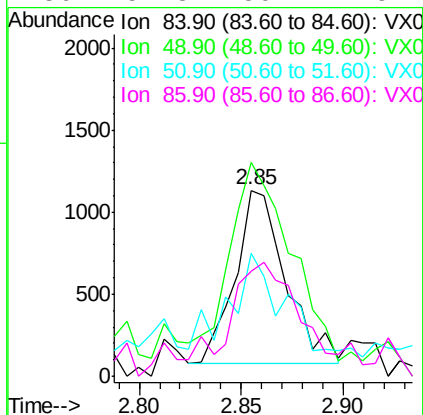
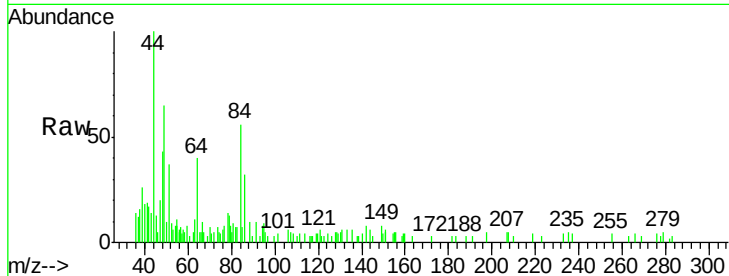
Time-->



#20
Methylene Chloride
Concen: Below Cal
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007141.D
Acq: 18 Jan 2019 18:02

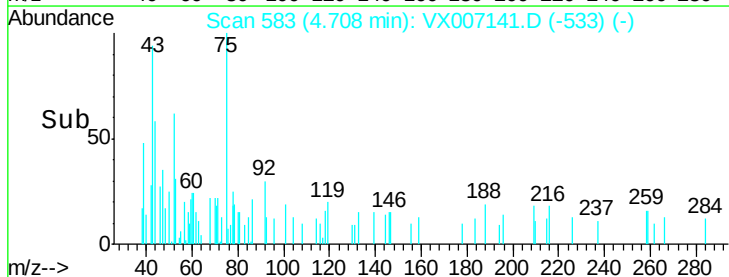
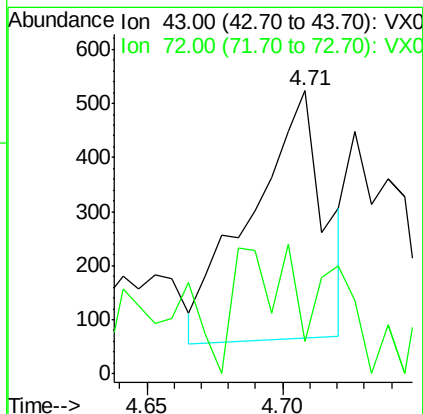
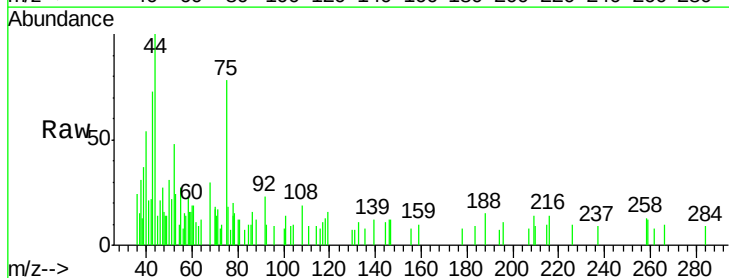
Instrument :
MSVOA_X
ClientSampleId :
SA-TW518-4246

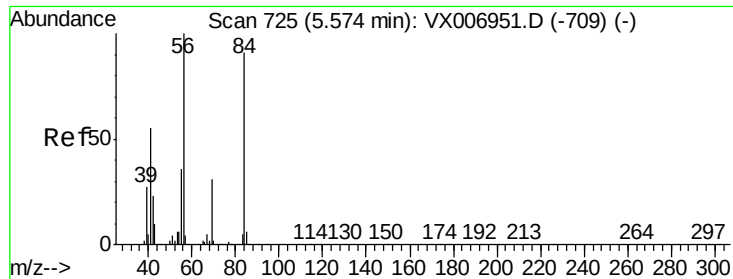
Tot Ion: 84 Resp: 1824
Ion Ratio Lower Upper
84 100
49 114.8 91.8 137.6
51 56.1 28.5 42.7#
86 51.3 50.2 75.2



#25
2-Butanone
Concen: 0.205 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX007141.D
Acq: 18 Jan 2019 18:02

Tgt Ion: 43 Resp: 851
Ion Ratio Lower Upper
43 100
72 0.0 22.4 33.6#

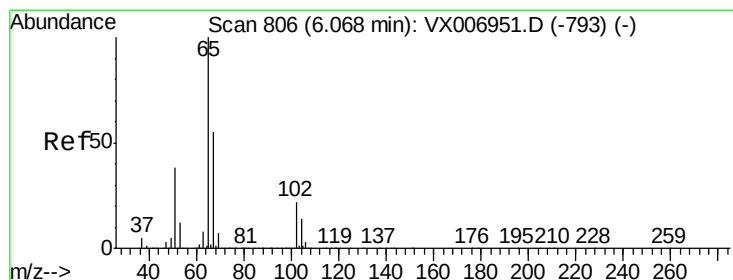
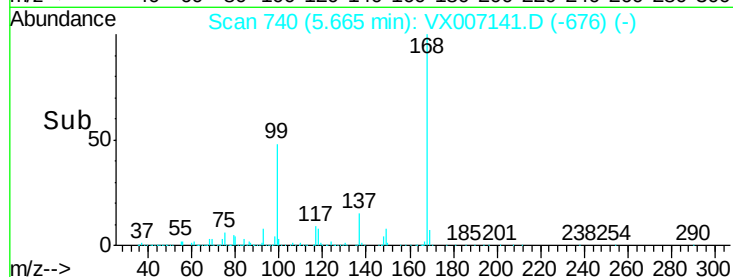
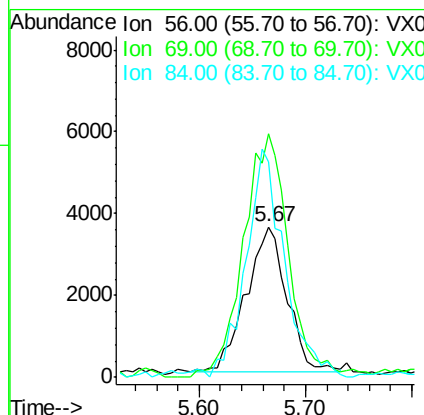
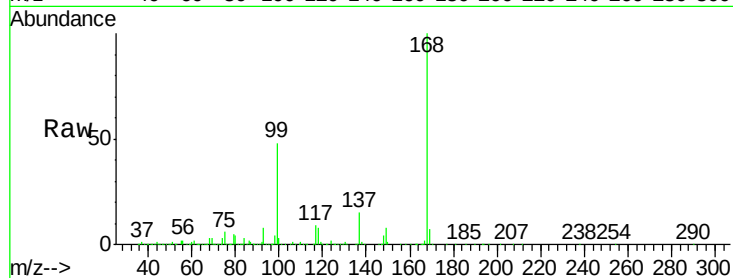




#31
Cyclohexane
Concen: 1.158 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX007141.D
Acq: 18 Jan 2019 18:02

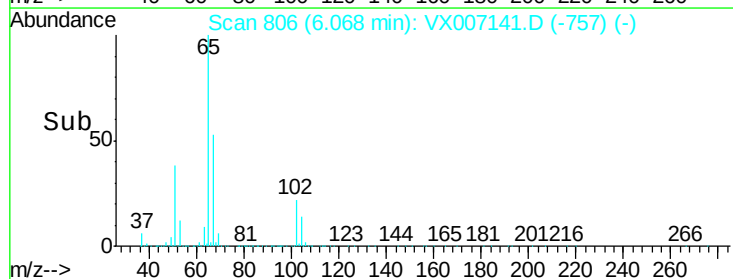
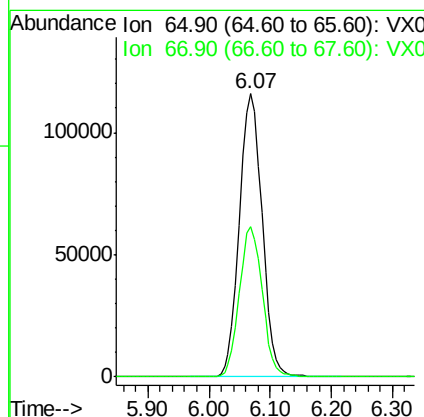
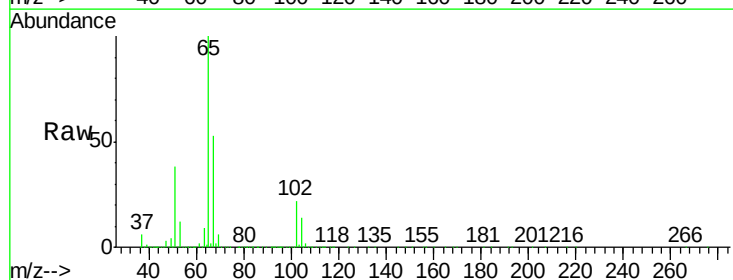
Instrument :
MSVOA_X
ClientSampleId :
SA-TW518-4246

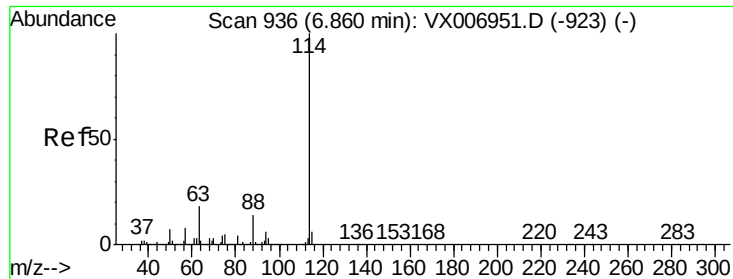
Tot Ion	Ratio	Lower	Upper
56	100		
69	167.9	24.4	36.6#
84	146.8	70.0	105.0#



#33
1,2-Dichloroethane-d4
Concen: 50.736 ug/l
RT: 6.07 min Scan# 806
Delta R.T. -0.00 min
Lab File: VX007141.D
Acq: 18 Jan 2019 18:02

Tgt Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007141.D

Acq: 18 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

SA-TW518-4246

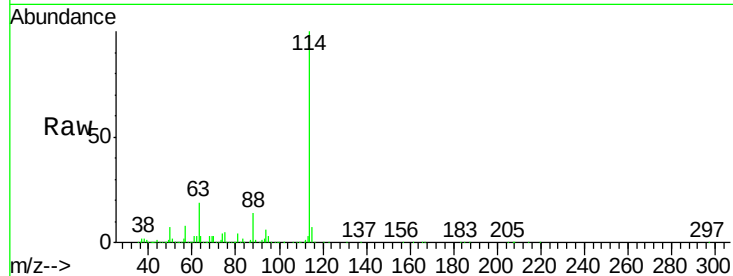
Tot Ion:114 Resp: 866382

Ion Ratio Lower Upper

114 100

63 19.1 0.0 34.8

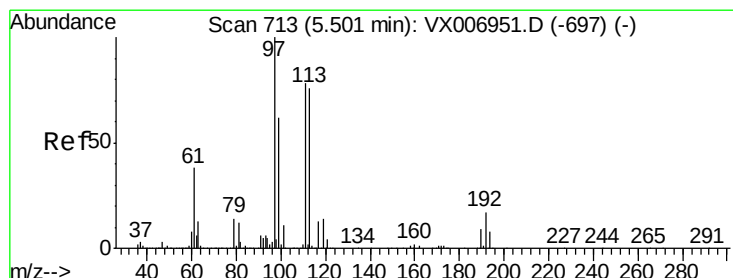
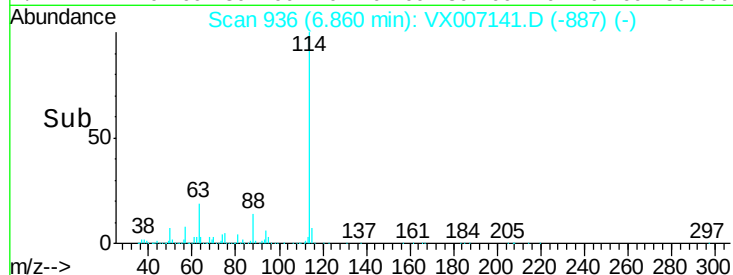
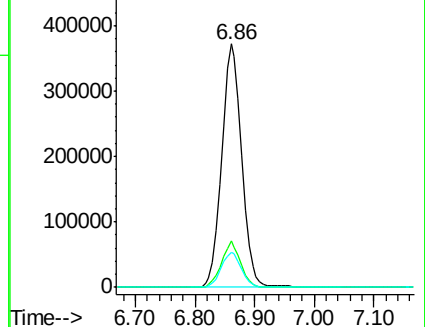
88 14.3 0.0 28.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0



#35

Dibromofluoromethane

Concen: 47.820 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007141.D

Acq: 18 Jan 2019 18:02

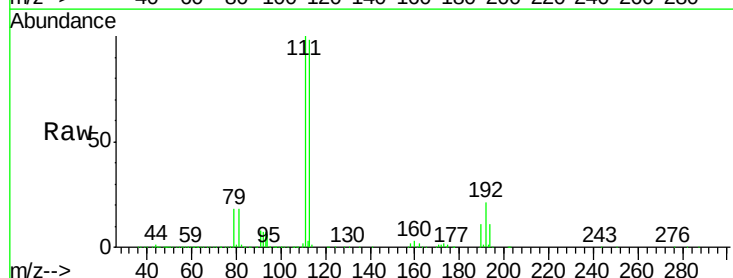
Tgt Ion:113 Resp: 265320

Ion Ratio Lower Upper

113 100

111 100.7 81.6 122.4

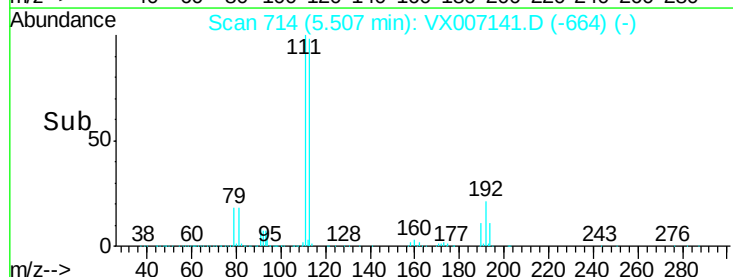
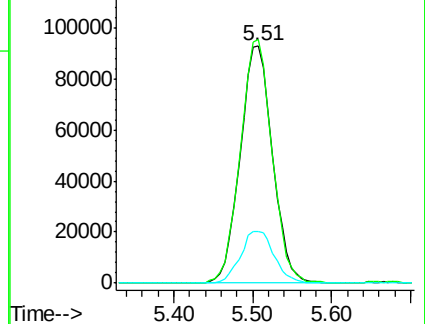
192 22.6 16.7 25.1

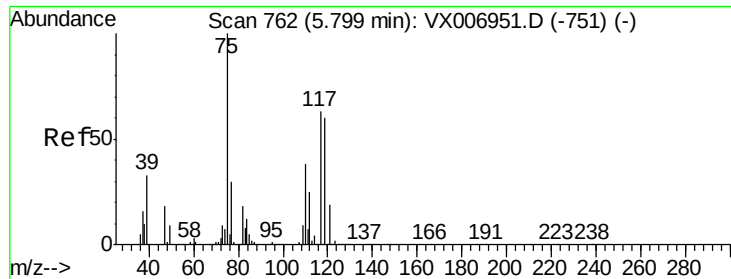


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

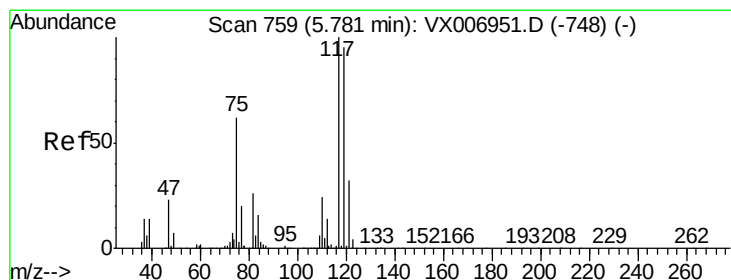
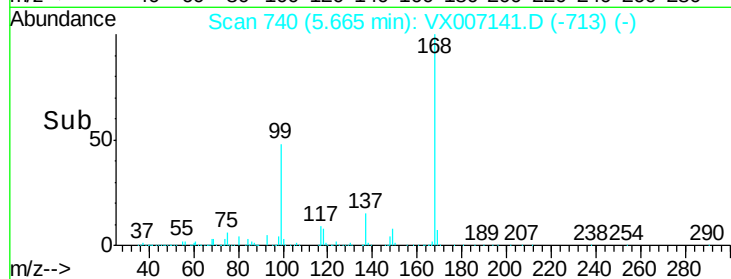
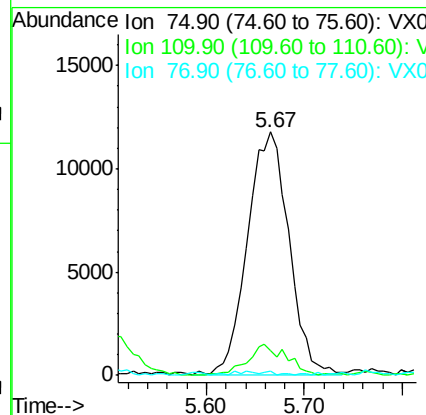
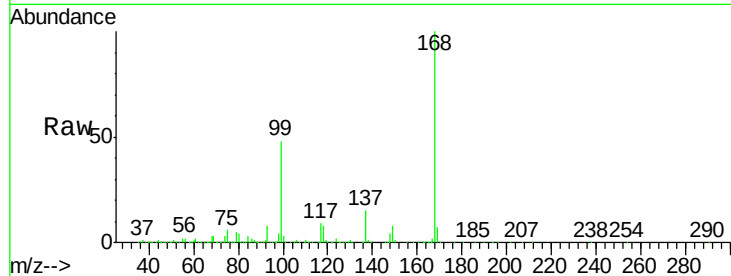




#36
 1,1-Dichloropropene
 Concen: 4.622 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX007141.D
 Acq: 18 Jan 2019 18:02

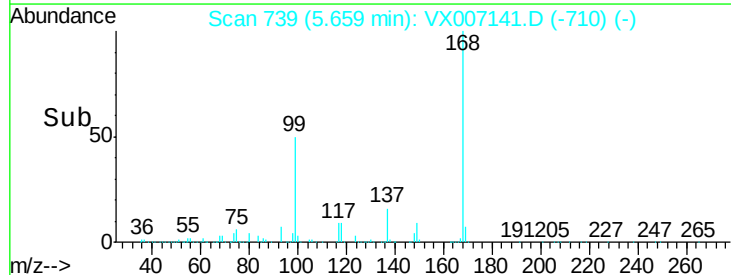
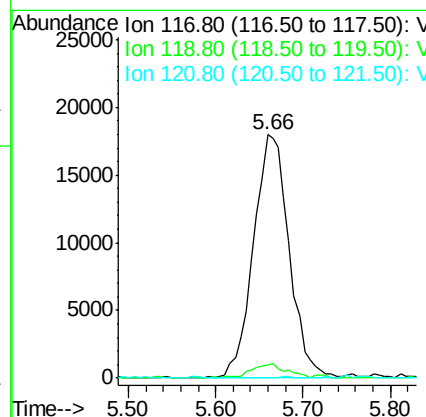
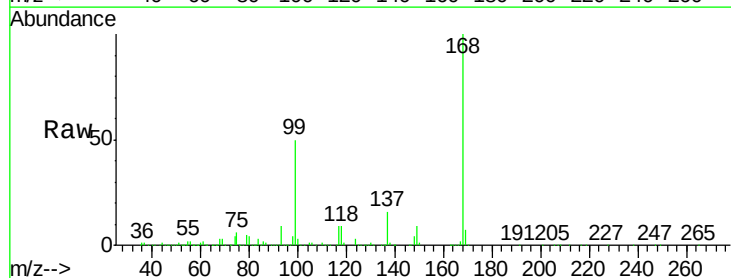
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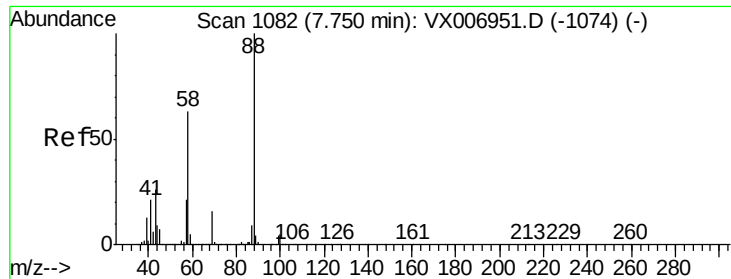
Tot Ion	Ratio	Lower	Upper
75	100		
110	11.8	20.2	60.5#
77	0.4	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.723 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX007141.D
 Acq: 18 Jan 2019 18:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	79.4	119.2#
121	0.0	24.0	36.0#





#49

1,4-Dioxane

Concen: Below Cal

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX007141.D

Acq: 18 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

SA-TW518-4246

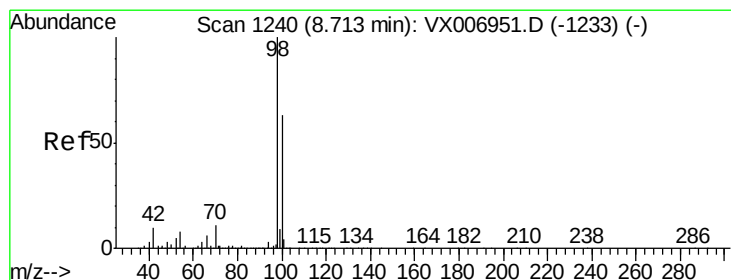
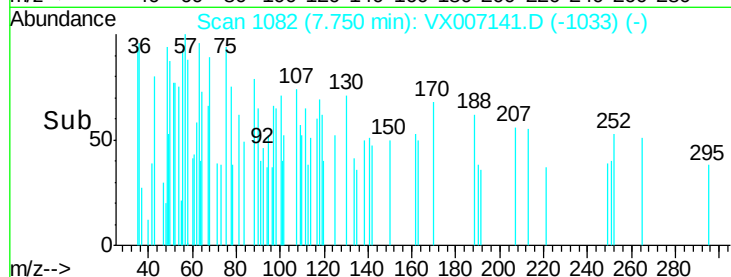
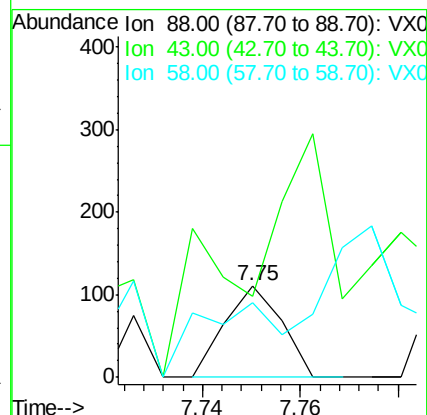
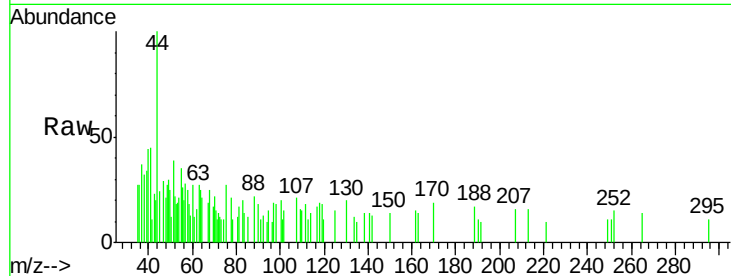
Tot Ion: 88 Resp: 89

Ion Ratio Lower Upper

88 100

43 467.4 22.2 33.4#

58 0.0 51.0 76.4#



#50

Toluene-d8

Concen: 50.559 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007141.D

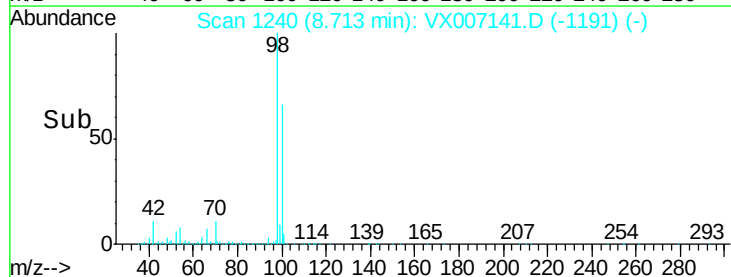
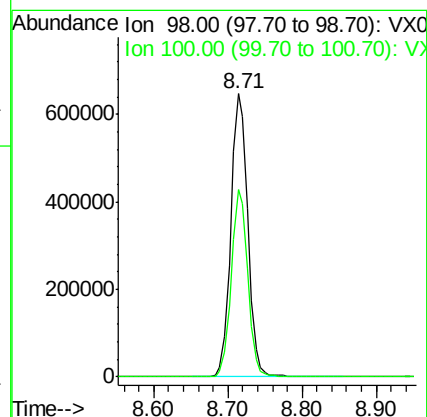
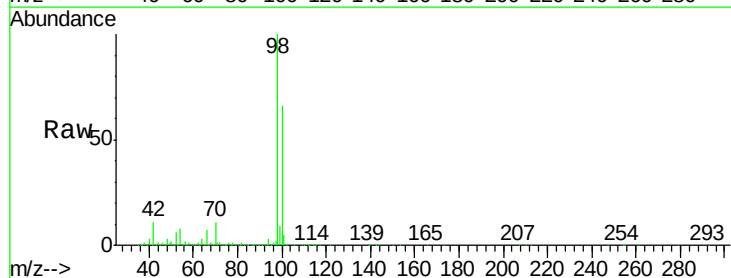
Acq: 18 Jan 2019 18:02

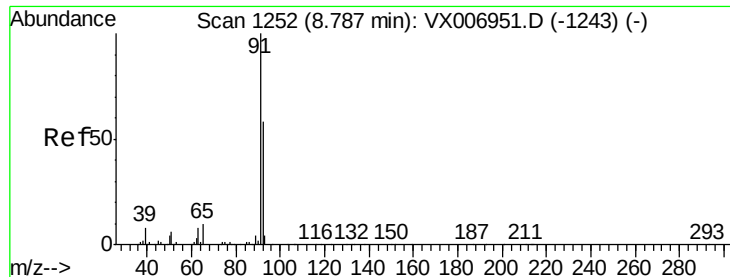
Tgt Ion: 98 Resp: 1026779

Ion Ratio Lower Upper

98 100

100 64.3 52.0 78.0





#52

Toluene

Concen: 0.365 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX007141.D

Acq: 18 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

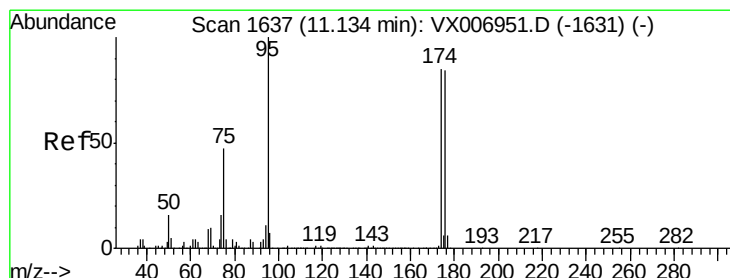
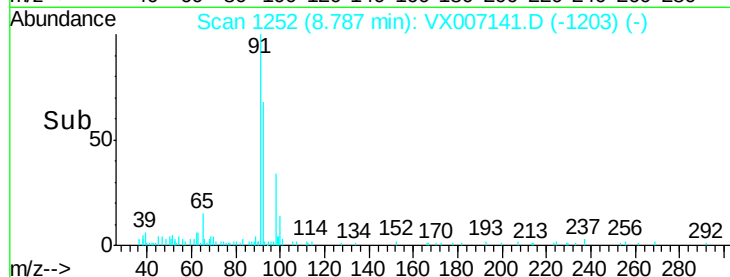
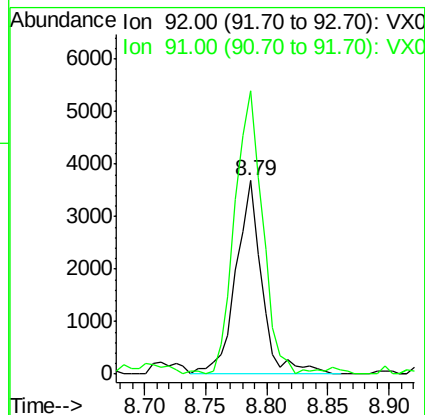
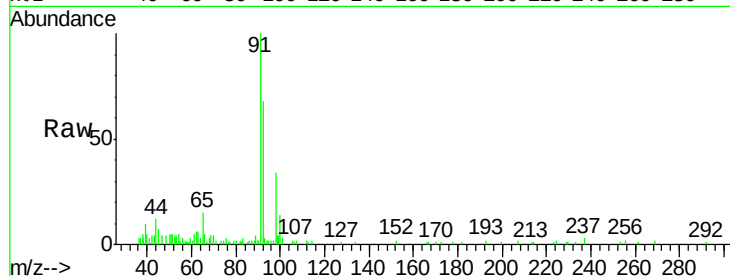
SA-TW518-4246

Tot Ion: 92 Resp: 5397

Ion Ratio Lower Upper

92 100

91 156.5 137.6 206.4



#62

4-Bromofluorobenzene

Concen: 52.717 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007141.D

Acq: 18 Jan 2019 18:02

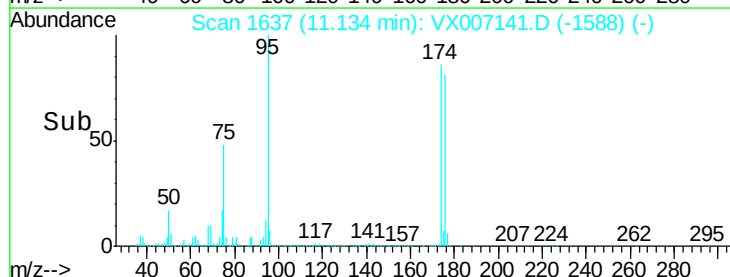
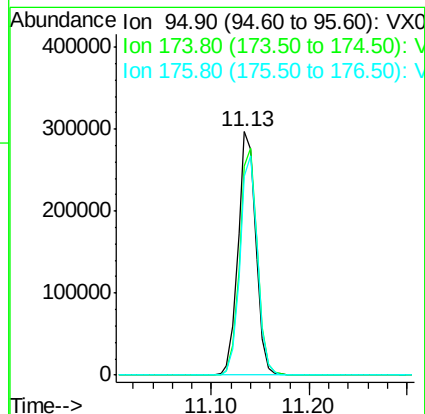
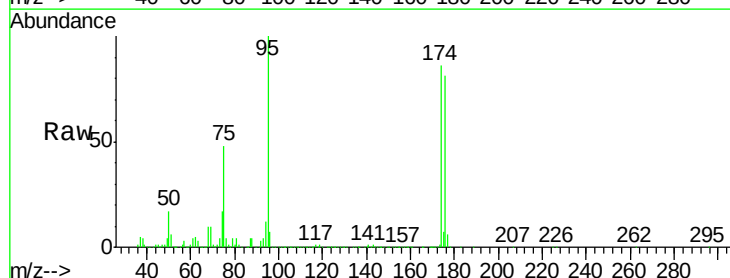
Tgt Ion: 95 Resp: 373237

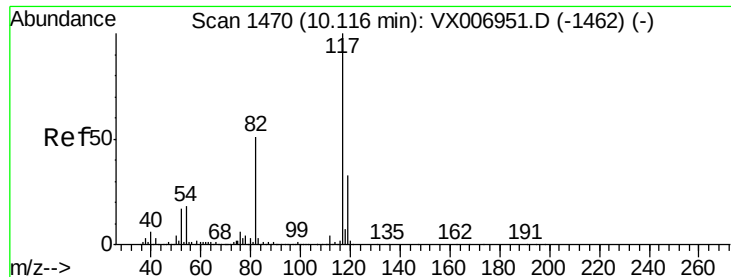
Ion Ratio Lower Upper

95 100

174 92.2 0.0 182.2

176 88.5 0.0 178.8

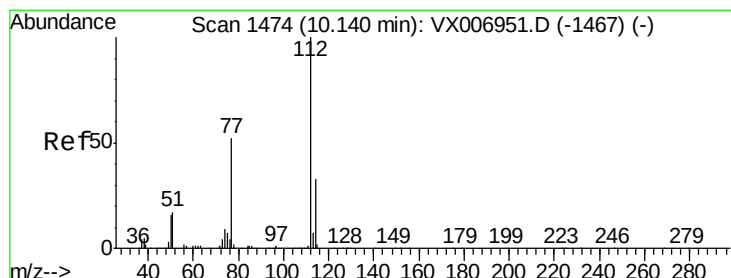
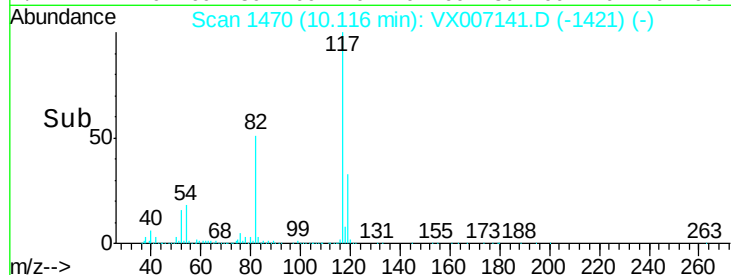
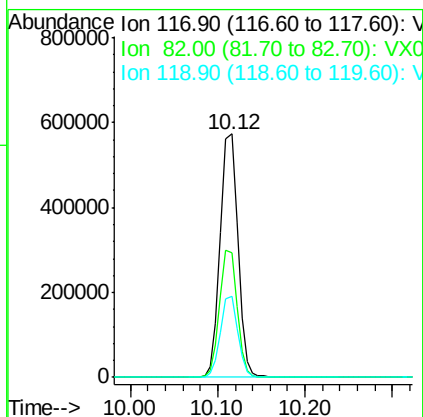
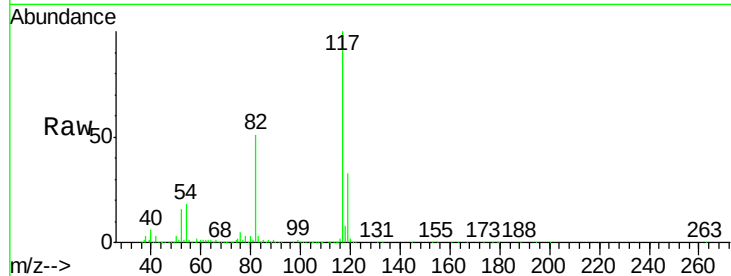




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX007141.D
Acq: 18 Jan 2019 18:02

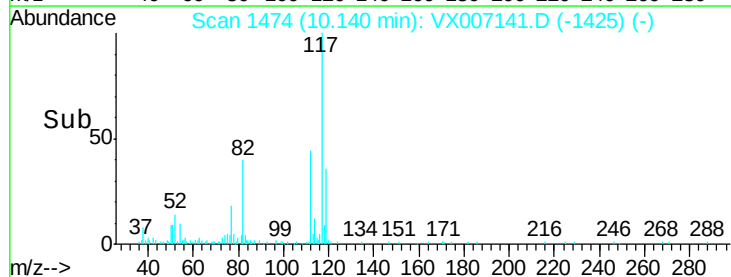
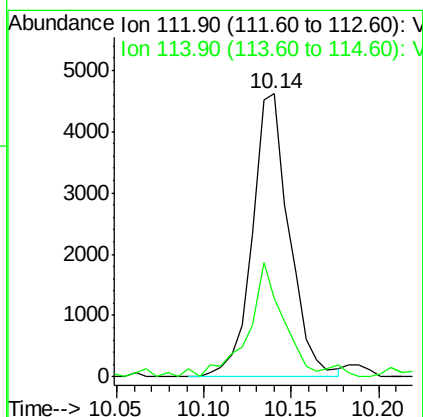
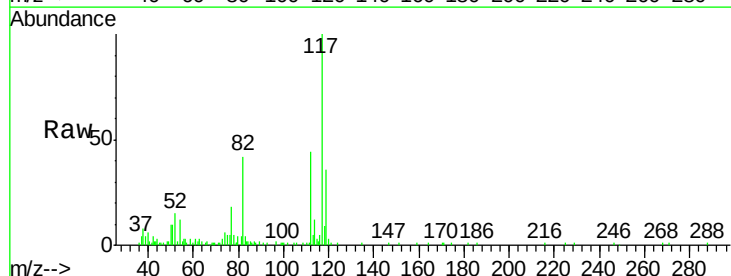
Instrument :
MSVOA_X
ClientSampleId :
SA-TW518-4246

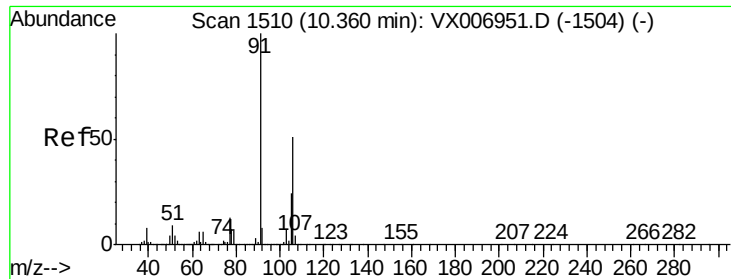
Tot Ion:117 Resp: 808362
Ion Ratio Lower Upper
117 100
82 51.3 41.0 61.6
119 33.3 25.4 38.0



#65
Chlorobenzene
Concen: 0.385 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX007141.D
Acq: 18 Jan 2019 18:02

Tgt Ion:112 Resp: 6788
Ion Ratio Lower Upper
112 100
114 24.8 25.7 38.5#





#68

m/p-Xvlenes

Concen: 0.217 ug/l

RT: 10.35 min Scan# 1509

Delta R.T. -0.01 min

Lab File: VX007141.D

Acq: 18 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

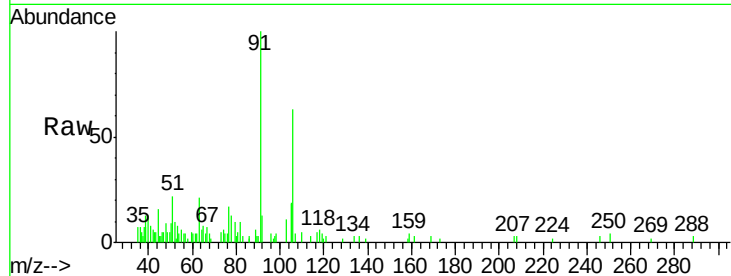
SA-TW518-4246

Tot Ion:106 Resp: 2490

Ion Ratio Lower Upper

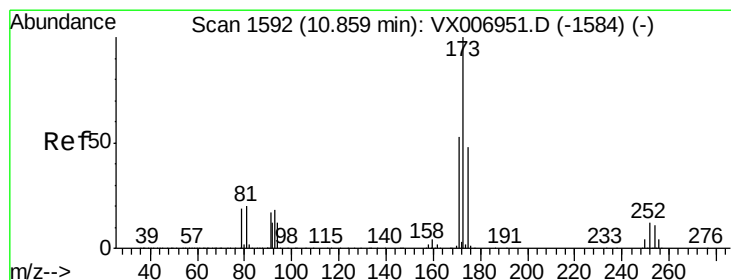
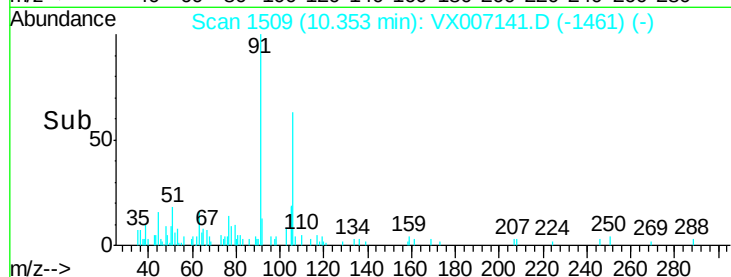
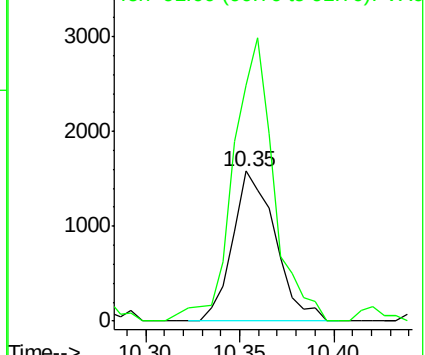
106 100

91 178.5 155.8 233.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#71

Bromoform

Concen: 4.748 ug/l

RT: 10.99 min Scan# 1613

Delta R.T. 0.13 min

Lab File: VX007141.D

Acq: 18 Jan 2019 18:02

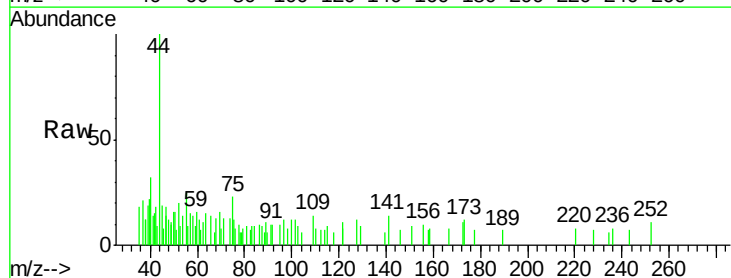
Tgt Ion:173 Resp: 117

Ion Ratio Lower Upper

173 100

175 0.0 24.7 74.1#

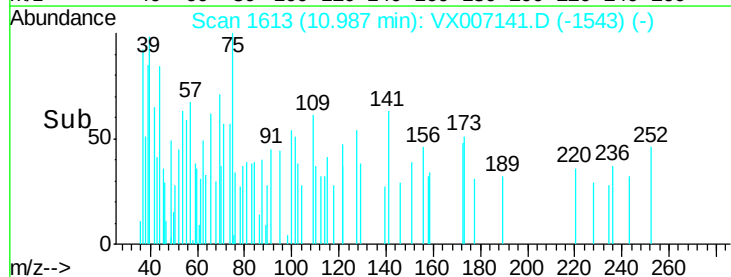
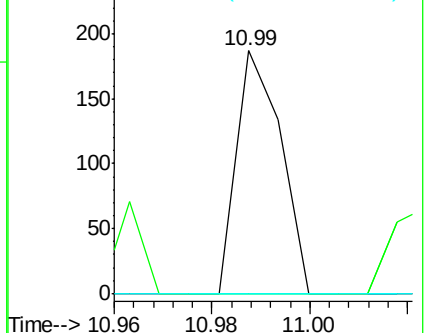
254 0.0 0.2 0.2#

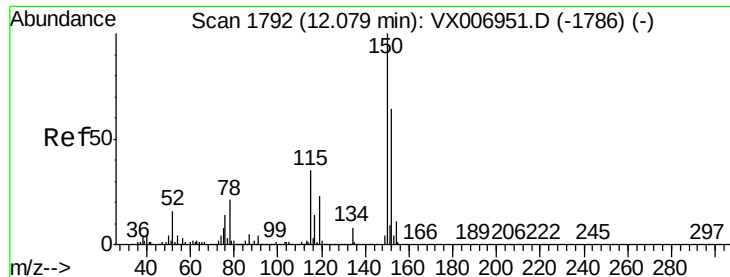


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



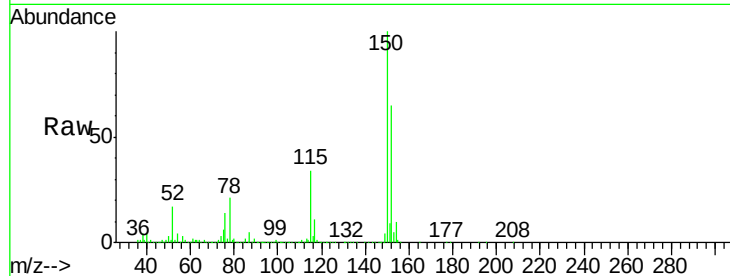


#72

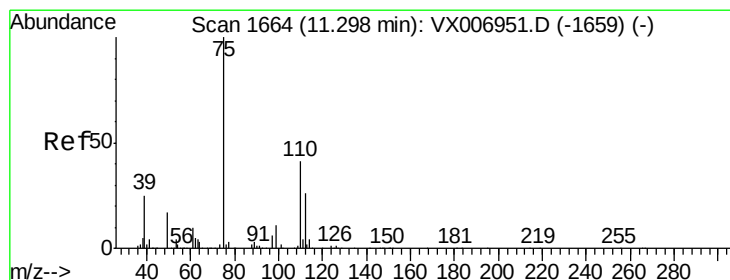
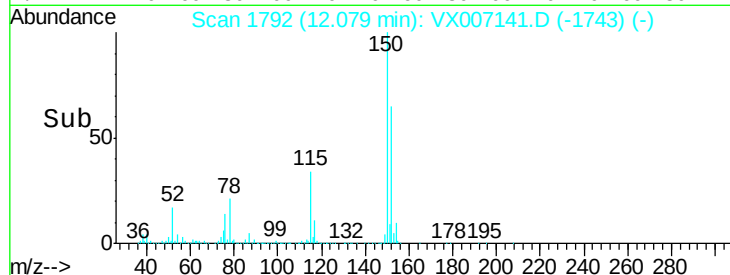
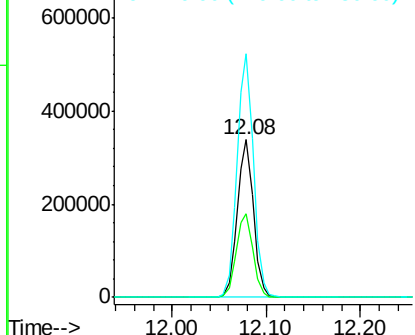
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX007141.D
Acq: 18 Jan 2019 18:02

Instrument :
MSVOA_X
ClientSampled :
SA-TW518-4246

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.6	39.1	117.2
150	156.6	0.0	344.8



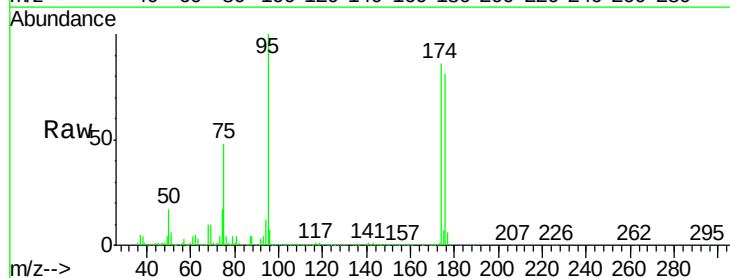
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



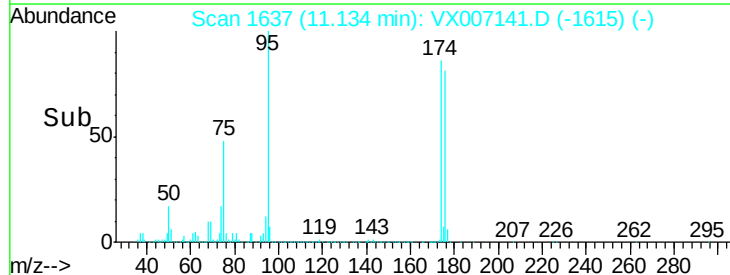
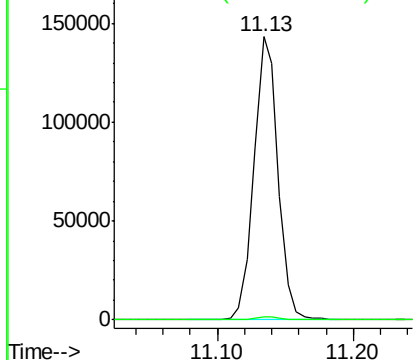
#76

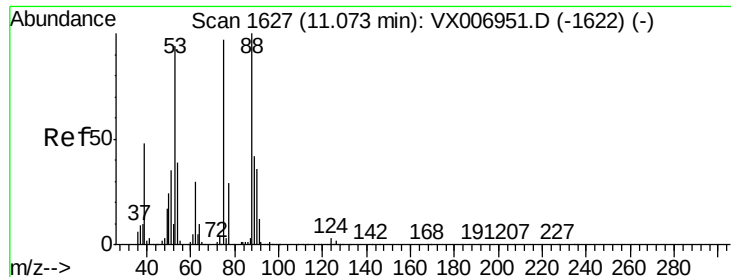
1,2,3-Trichloropropane
Concen: 21.772 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX007141.D
Acq: 18 Jan 2019 18:02

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.3	18.5	55.5#



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: 64.516 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007141.D

Acq: 18 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

SA-TW518-4246

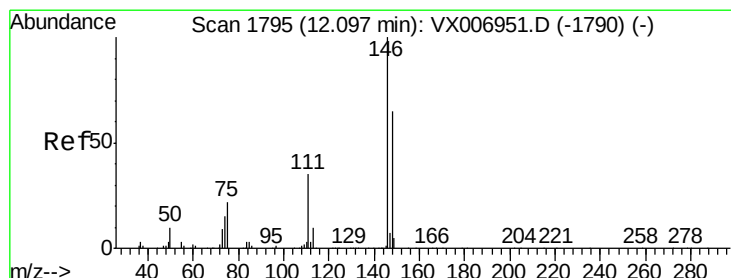
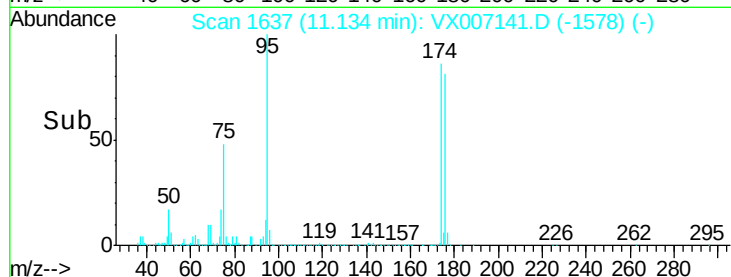
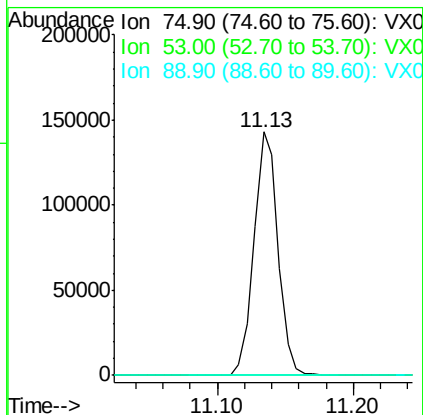
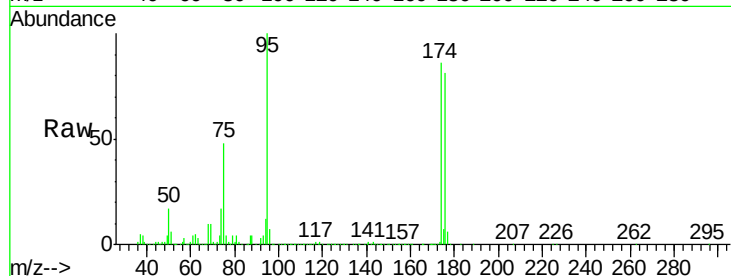
Tot Ion: 75 Resp: 177440

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

89 0.0 38.0 57.0#



#88

1,4-Dichlorobenzene

Concen: 0.207 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. 0.00 min

Lab File: VX007141.D

Acq: 18 Jan 2019 18:02

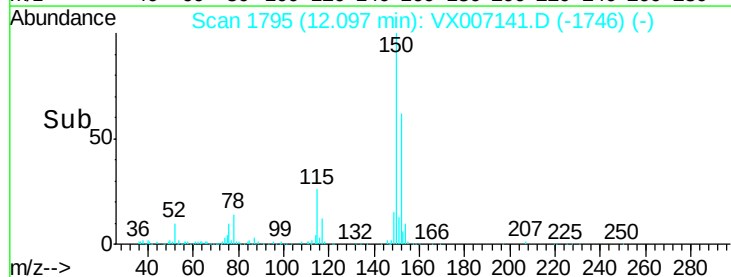
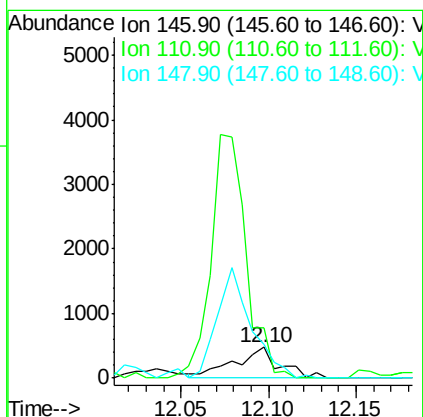
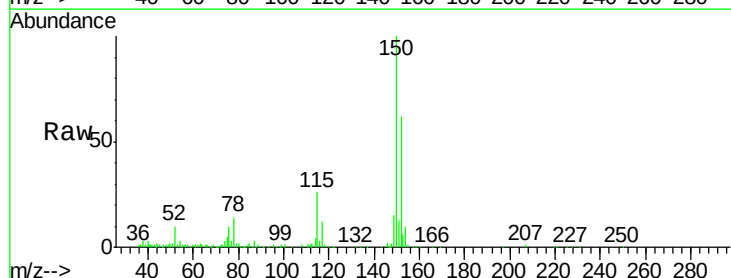
Tgt Ion: 146 Resp: 836

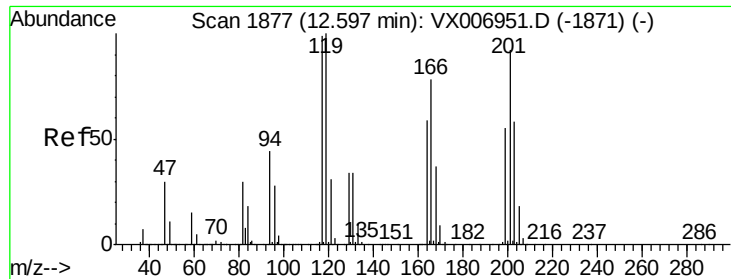
Ion Ratio Lower Upper

146 100

111 0.0 18.1 54.1#

148 0.0 31.9 95.9#





#90

Hexachloroethane

Concen: 2.918 ug/l

RT: 12.64 min Scan# 1884

Delta R.T. 0.04 min

Lab File: VX007141.D

Acq: 18 Jan 2019 18:02

Instrument :

MSVOA_X

ClientSampleId :

SA-TW518-4246

Tot Ion:117 Resp: 43

Ion Ratio Lower Upper

117 100

201 62.8 42.9 128.7

