

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX081319\
 Data File : VX011541.D
 Acq On : 13 Aug 2019 17:14
 Operator : JC/SP
 Sample : K4336-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190812

Quant Time: Aug 14 01:09:36 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 02 01:55:00 2019
 Response via : Initial Calibration

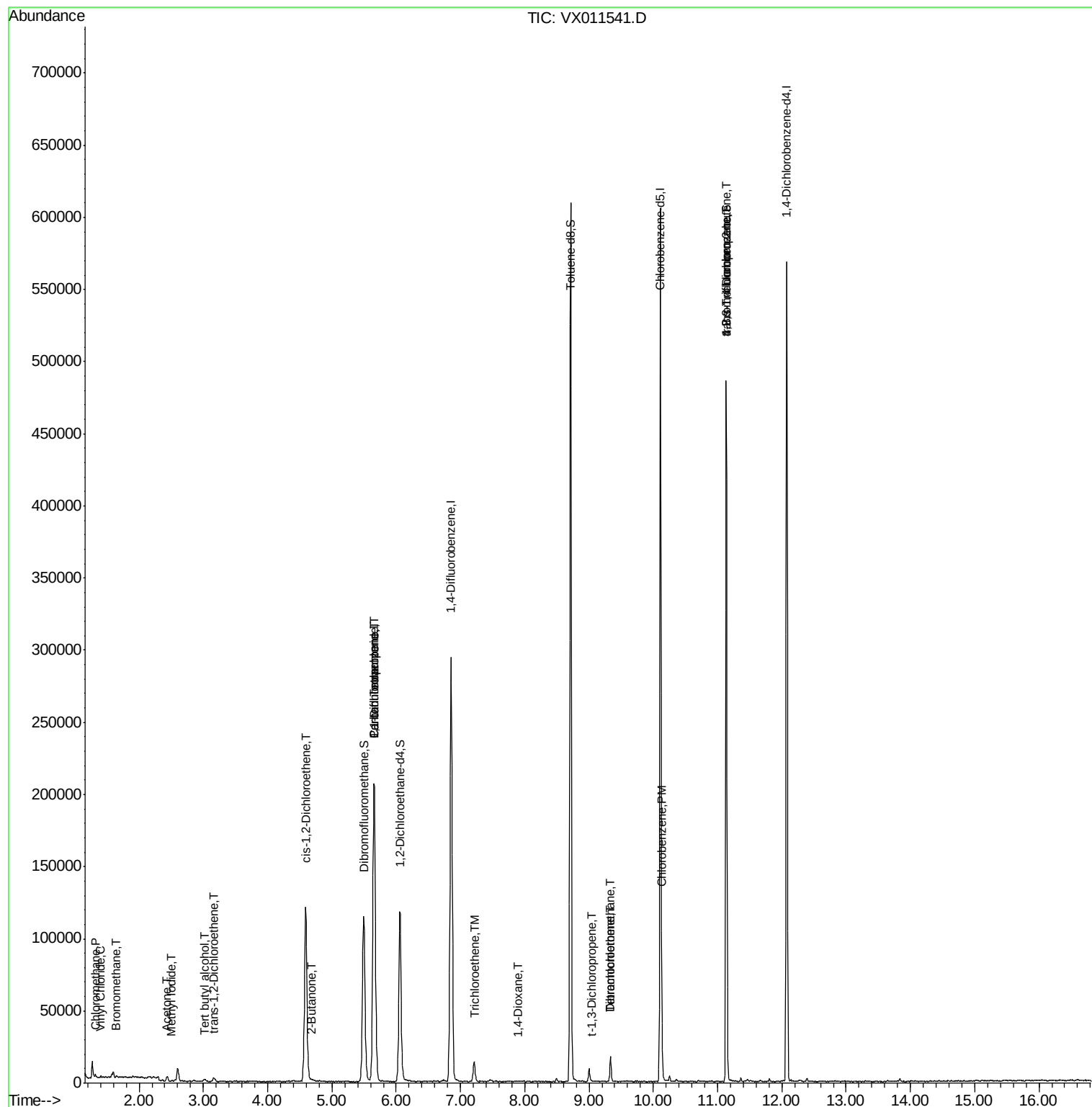
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	203937	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	304929	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	273257	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	122214	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	114427	55.72	ug/l	0.00
Spiked Amount 50.000			Recovery	=	111.44%	
35) Dibromofluoromethane	5.49	113	93613	47.02	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.04%	
50) Toluene-d8	8.71	98	356032	47.38	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.76%	
62) 4-Bromofluorobenzene	11.13	95	121595	45.32	ug/l	0.00
Spiked Amount 50.000			Recovery	=	90.64%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.32	50	1245	0.704	ug/l	99
4) Vinyl Chloride	1.40	62	817	0.420	ug/l #	81
5) Bromomethane	1.64	94	646	0.466	ug/l	81
6) Chloroethane	1.69	64	70	Below Cal	#	43
10) Methyl Iodide	2.51	142	554	0.235	ug/l #	79
11) Tert butyl alcohol	3.02	59	1125	2.770	ug/l #	92
13) Acrolein	2.30	56	26	Below Cal	#	15
16) Acetone	2.43	43	3785	3.872	ug/l #	86
21) trans-1,2-Dichloroethene	3.16	96	865	0.441	ug/l	88
25) 2-Butanone	4.68	43	404	0.291	ug/l #	46
27) cis-1,2-Dichloroethene	4.59	96	80763	35.723	ug/l	93
36) 1,1-Dichloropropene	5.65	75	13987	5.254	ug/l #	50
38) Carbon Tetrachloride	5.65	117	19603	7.319	ug/l #	15
44) Trichloroethene	7.21	130	5418	2.253	ug/l	90
49) 1,4-Dioxane	7.90	88	46	0.790	ug/l #	70
53) t-1,3-Dichloropropene	9.05	75	65	2.859	ug/l #	43
60) Dibromochloromethane	9.33	129	2748	1.243	ug/l #	10
64) Tetrachloroethene	9.33	164	2996	1.291	ug/l	90
65) Chlorobenzene	10.13	112	6998	1.194	ug/l	98
76) 1,2,3-Trichloropropane	11.13	75	62201	27.947	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	62201	72.397	ug/l #	10

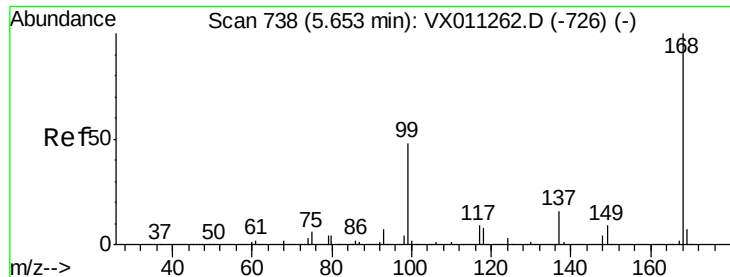
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

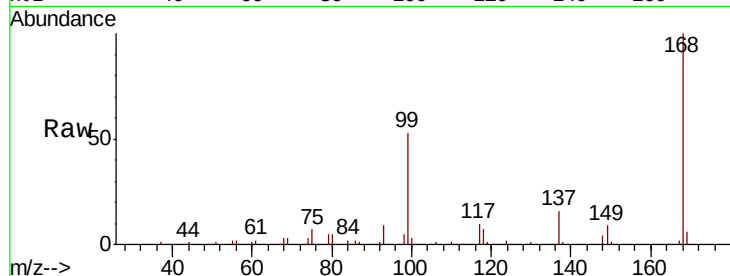
KY038PS027-190812

Tgt Ion:168 Resp: 203937

Ion Ratio Lower Upper

168 100

99 52.9 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

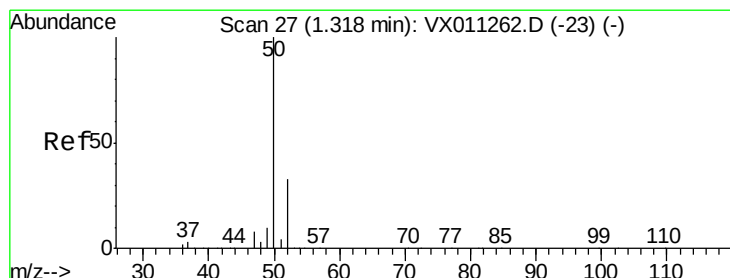
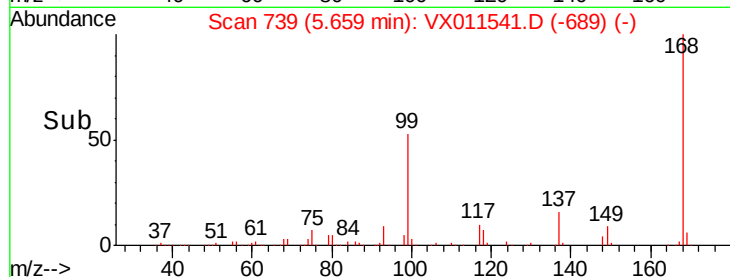
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.704 ug/l

RT: 1.32 min Scan# 27

Delta R.T. -0.00 min

Lab File: VX011541.D

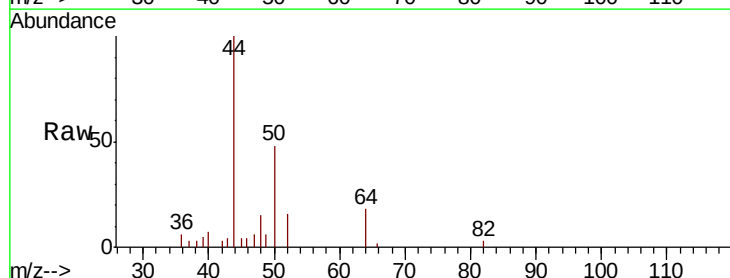
Acq: 13 Aug 2019 17:14

Tgt Ion: 50 Resp: 1245

Ion Ratio Lower Upper

50 100

52 32.6 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

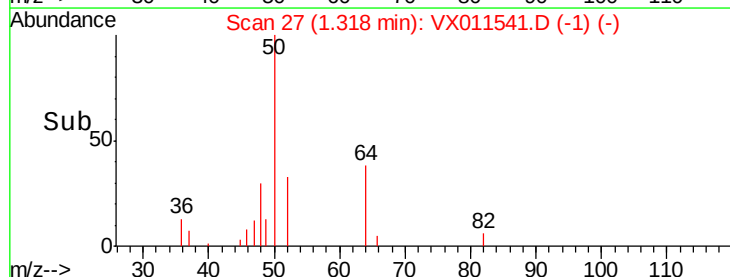
1.32

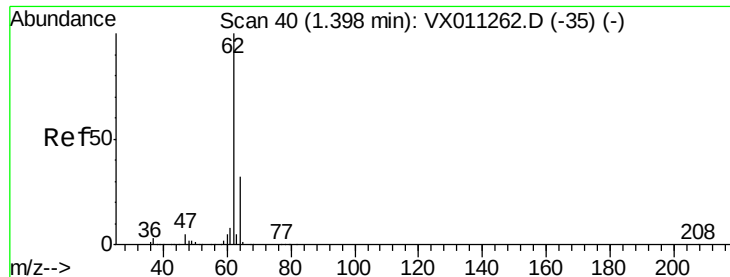
1000

500

0

Time--> 1.30 1.35 1.40





#4

Vinyl Chloride

Concen: 0.420 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.01 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

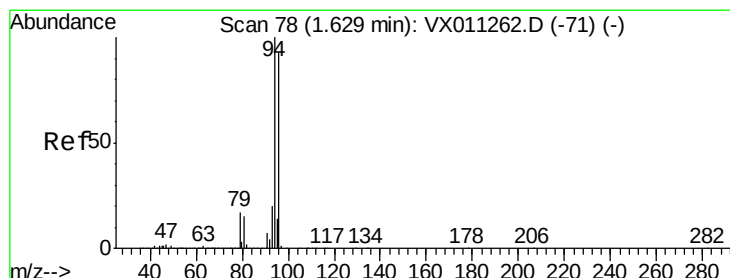
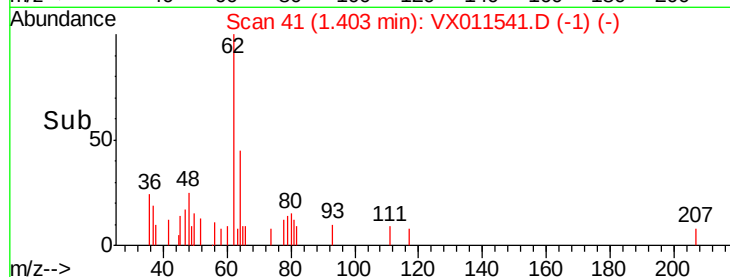
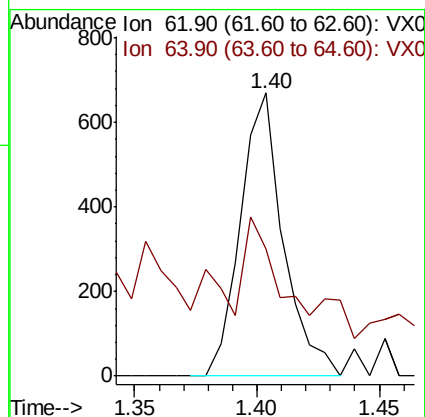
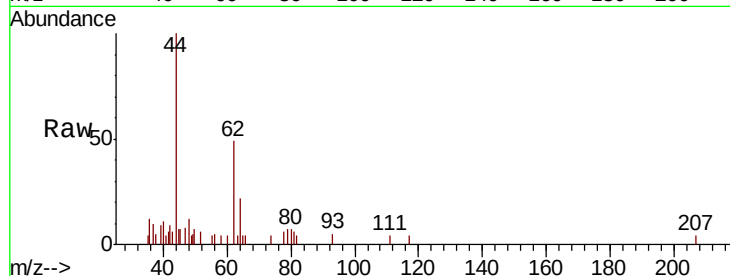
KY038PS027-190812

Tgt Ion: 62 Resp: 817

Ion Ratio Lower Upper

62 100

64 21.7 26.0 39.0#



#5

Bromomethane

Concen: 0.466 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011541.D

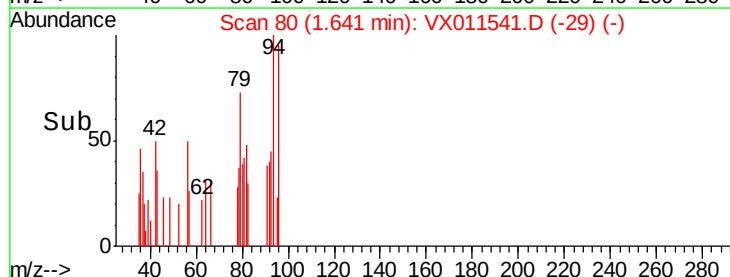
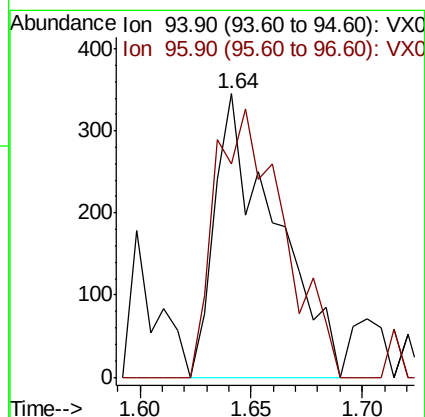
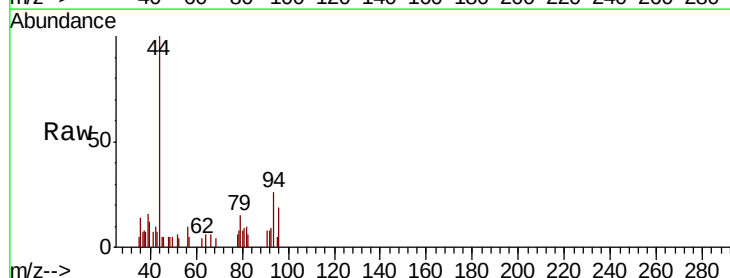
Acq: 13 Aug 2019 17:14

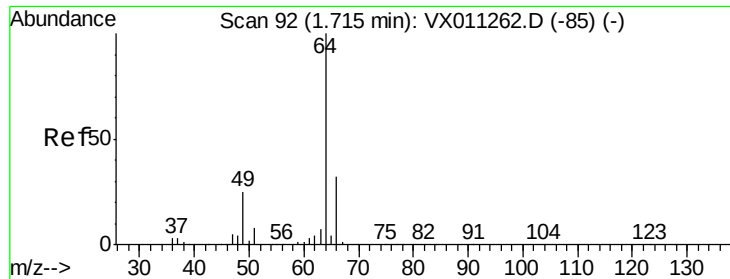
Tgt Ion: 94 Resp: 646

Ion Ratio Lower Upper

94 100

96 75.4 74.6 112.0





#6

Chloroethane

Concen: Below Cal

RT: 1.69 min Scan# 88

Delta R.T. -0.02 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

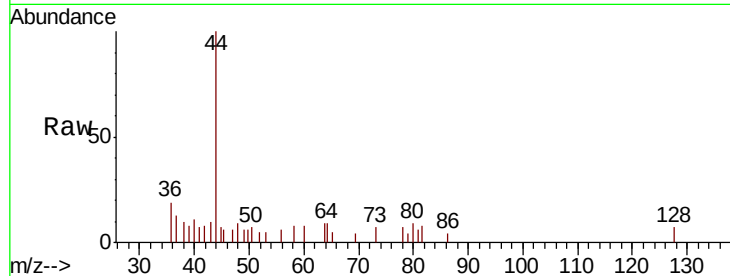
KY038PS027-190812

Tgt Ion: 64 Resp: 70

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX011262.D (-85) (-)

Ion 65.90 (65.60 to 66.60): VX011262.D (-85) (-)

1.69

200

150

100

50

0

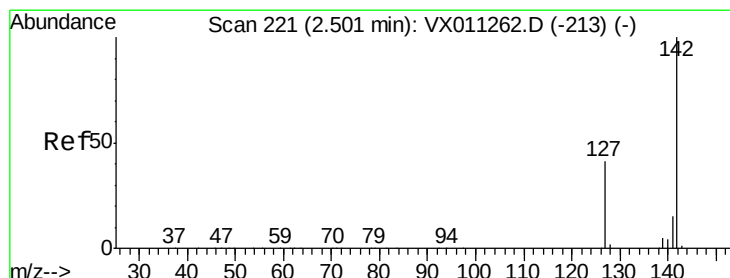
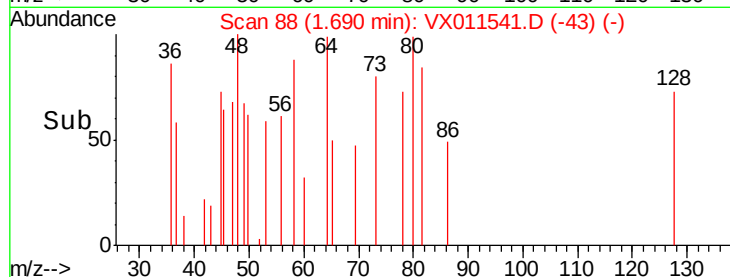
1.67

1.68

1.69

1.70

Time-->



#10

Methyl Iodide

Concen: 0.235 ug/l

RT: 2.51 min Scan# 222

Delta R.T. 0.01 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

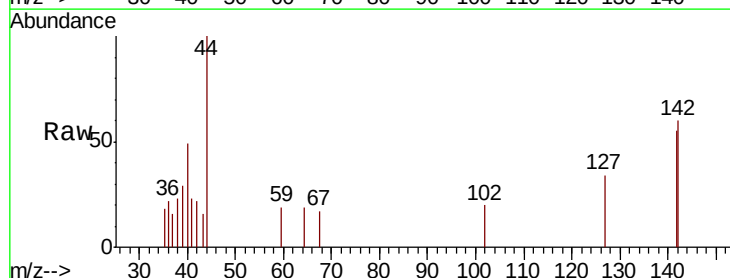
Tgt Ion: 142 Resp: 554

Ion Ratio Lower Upper

142 100

127 52.7 33.8 50.8#

141 0.0 11.4 17.2#



Abundance Ion 141.80 (141.50 to 142.50): VX011262.D (-213) (-)

Ion 126.80 (126.50 to 127.50): VX011262.D (-213) (-)

Ion 140.80 (140.50 to 141.50): VX011262.D (-213) (-)

2.51

500

400

300

200

100

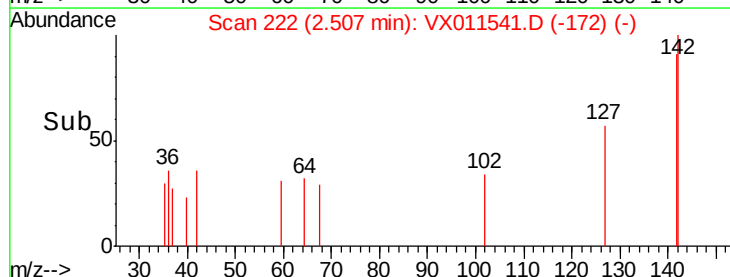
0

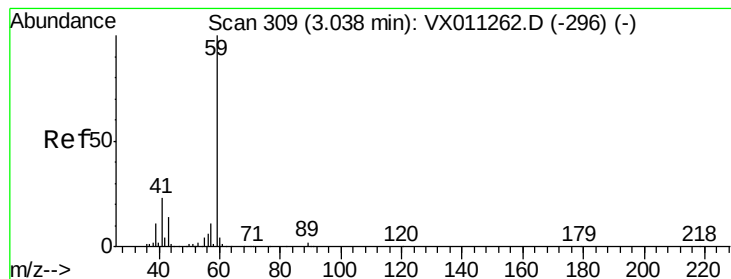
2.45

2.50

2.55

Time-->



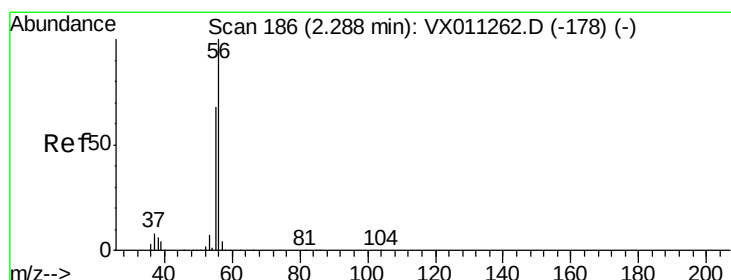
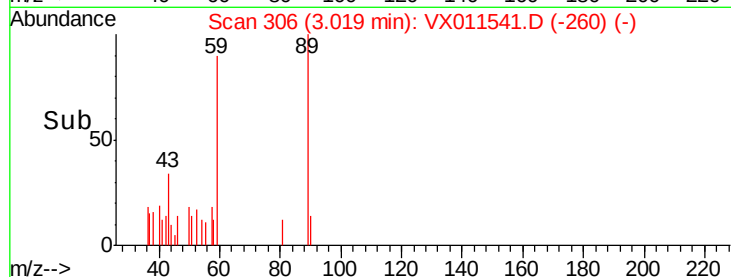
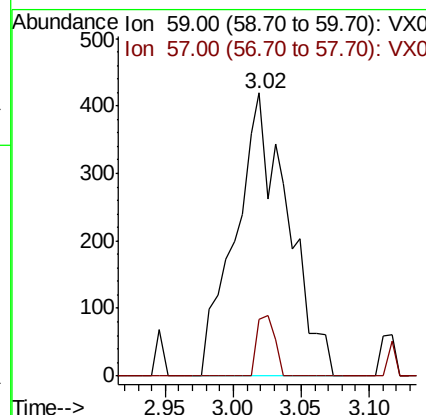
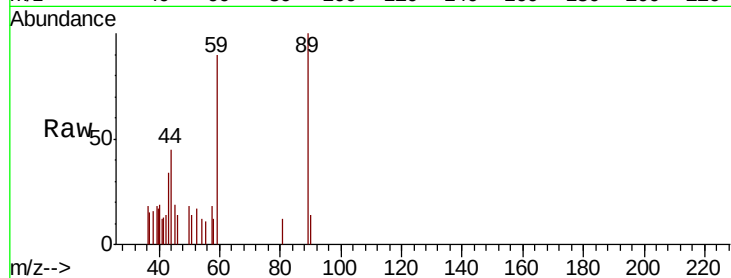


#11

Tert butyl alcohol
 Concen: 2.770 ug/l
 RT: 3.02 min Scan# 306
 Delta R.T. -0.02 min
 Lab File: VX011541.D
 Acq: 13 Aug 2019 17:14

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190812

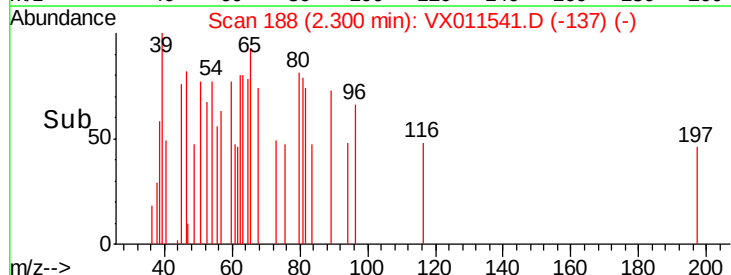
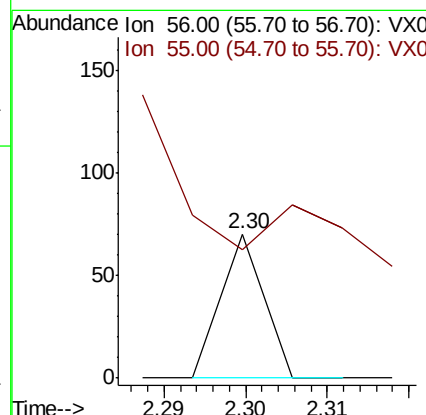
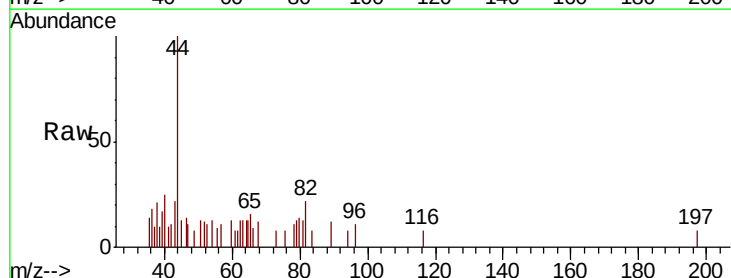
Tgt Ion: 59 Resp: 1125
 Ion Ratio Lower Upper
 59 100
 57 7.4 8.3 12.5#

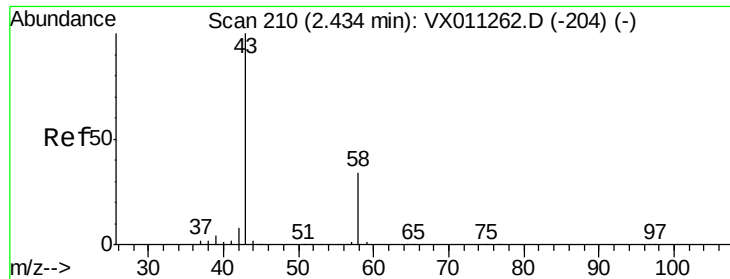


#13

Acrolein
 Concen: Below Cal
 RT: 2.30 min Scan# 188
 Delta R.T. 0.01 min
 Lab File: VX011541.D
 Acq: 13 Aug 2019 17:14

Tgt Ion: 56 Resp: 26
 Ion Ratio Lower Upper
 56 100
 55 0.0 56.0 84.0#





#16

Acetone

Concen: 3.872 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

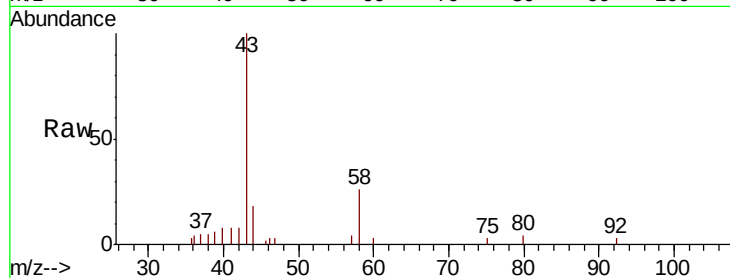
KY038PS027-190812

Tgt Ion: 43 Resp: 3785

Ion Ratio Lower Upper

43 100

58 26.4 27.4 41.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2500

2000

1500

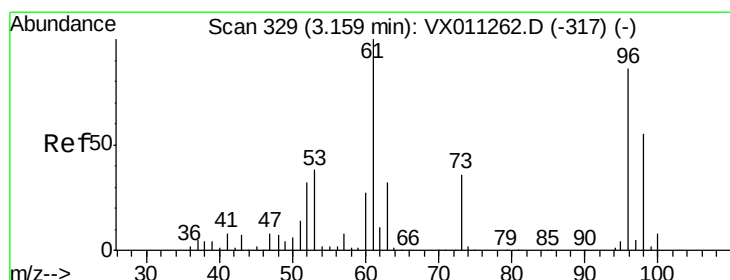
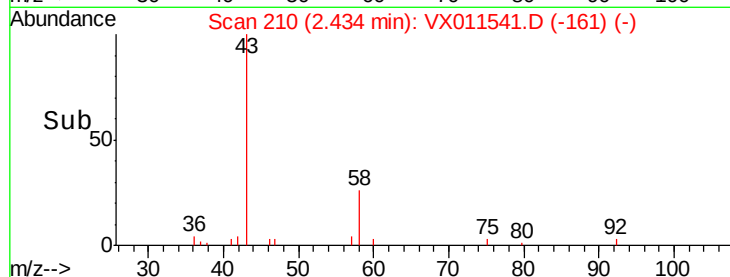
1000

500

0

2.35 2.40 2.45 2.50

Time-->



#21

trans-1,2-Dichloroethene

Concen: 0.441 ug/l

RT: 3.16 min Scan# 329

Delta R.T. -0.00 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

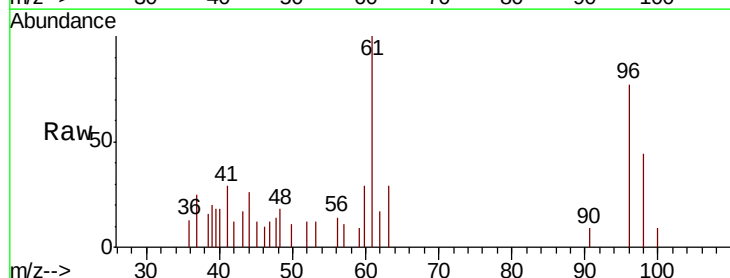
Tgt Ion: 96 Resp: 865

Ion Ratio Lower Upper

96 100

61 130.0 92.8 139.2

98 56.8 51.2 76.8



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

800

600

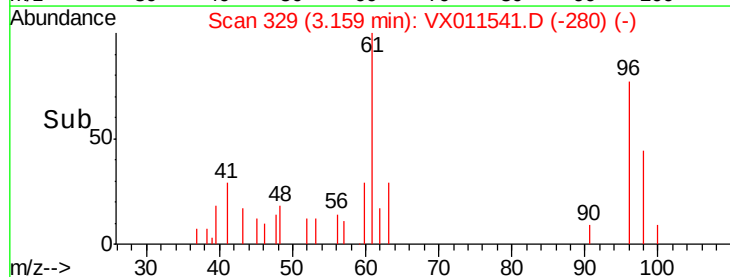
400

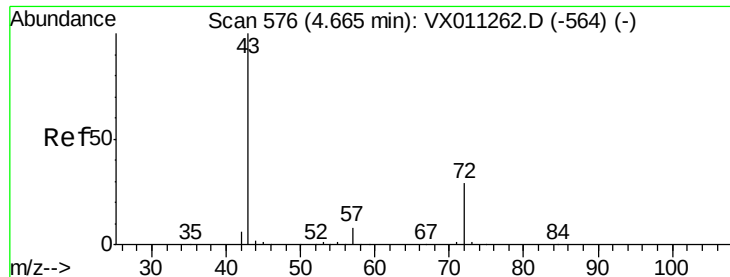
200

0

3.10 3.15 3.20

Time-->





#25

2-Butanone

Concen: 0.291 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.02 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

Instrument :

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ClientSampleId :

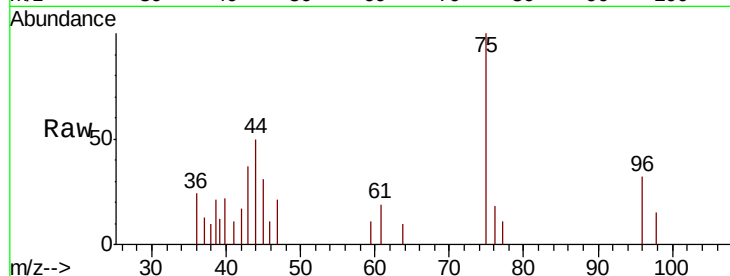
KY038PS027-190812

Tgt Ion: 43 Resp: 404

Ion Ratio Lower Upper

43 100

72 0.0 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.68

200

150

100

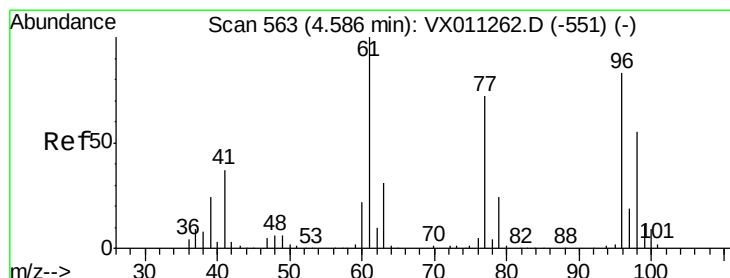
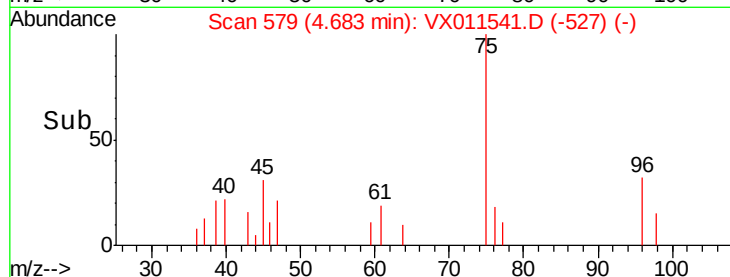
50

0

4.65

4.70

Time-->



#27

cis-1,2-Dichloroethene

Concen: 35.723 ug/l

RT: 4.59 min Scan# 564

Delta R.T. 0.01 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

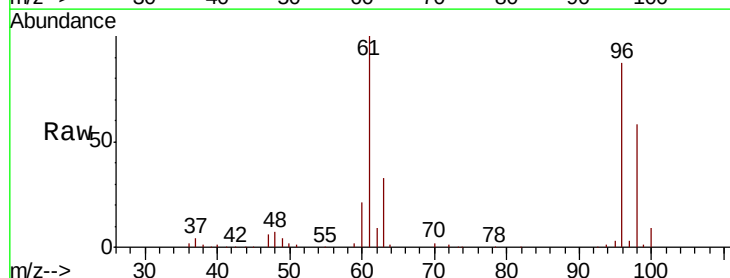
Tgt Ion: 96 Resp: 80763

Ion Ratio Lower Upper

96 100

61 118.7 0.0 260.2

98 64.4 0.0 133.2



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

40000

30000

20000

10000

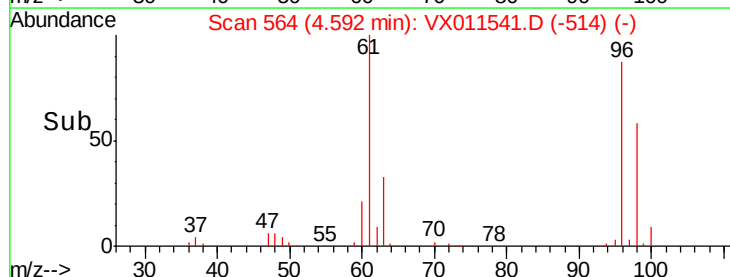
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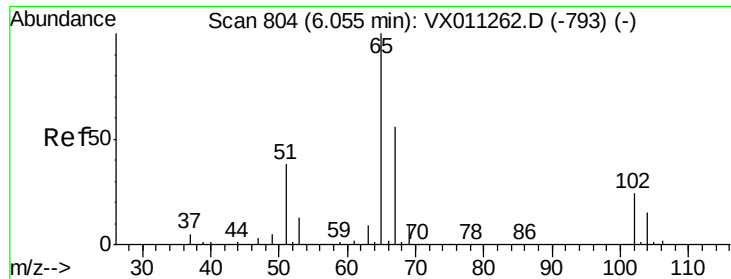
4.50

4.60

4.70

Time-->

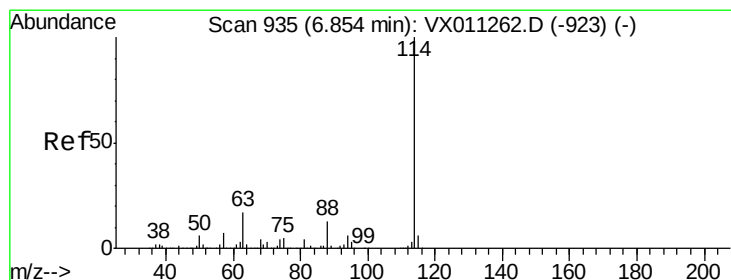
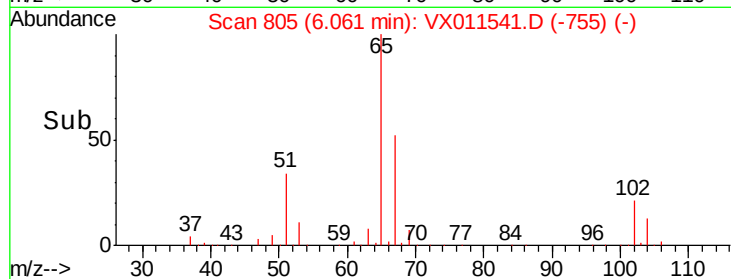
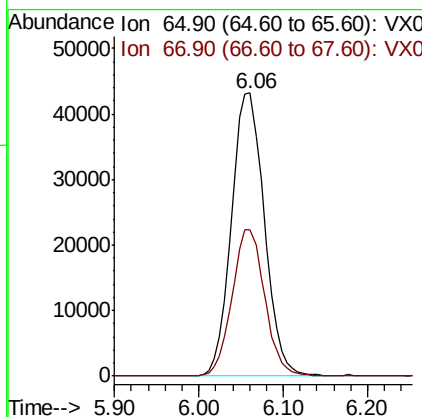
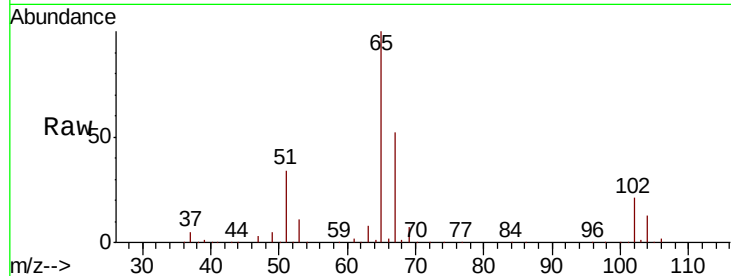




#33
 1,2-Dichloroethane-d4
 Concen: 55.716 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.01 min
 Lab File: VX011541.D
 Acq: 13 Aug 2019 17:14

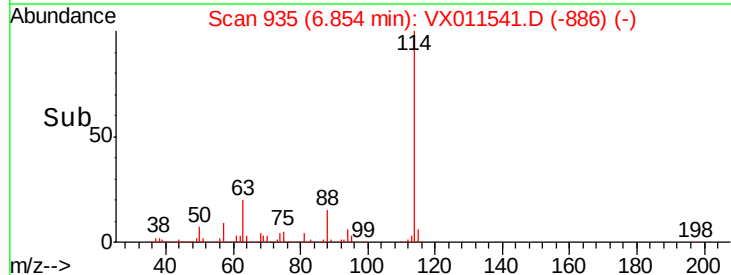
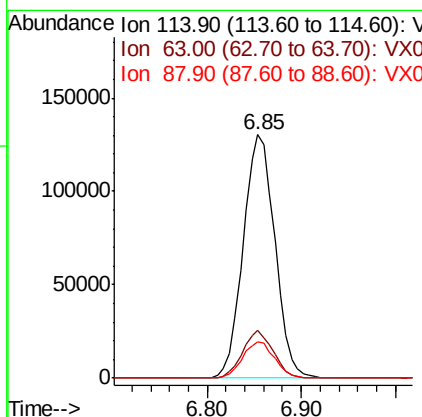
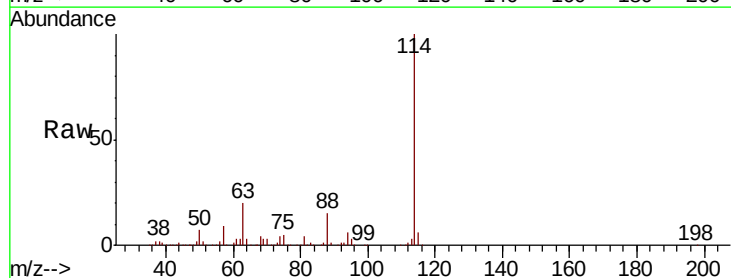
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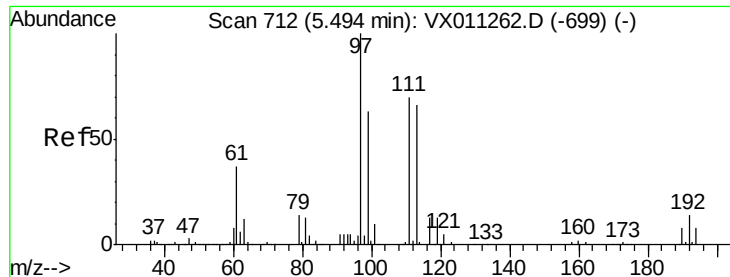
Tgt Ion: 65 Resp: 114427
 Ion Ratio Lower Upper
 65 100
 67 51.3 0.0 110.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 935
 Delta R.T. -0.00 min
 Lab File: VX011541.D
 Acq: 13 Aug 2019 17:14

Tgt Ion: 114 Resp: 304929
 Ion Ratio Lower Upper
 114 100
 63 19.6 0.0 34.0
 88 14.9 0.0 26.4





#35

Dibromofluoromethane

Concen: 47.022 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.00 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190812

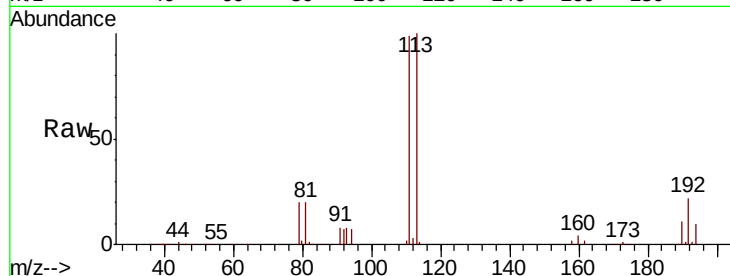
Tgt Ion:113 Resp: 93613

Ion Ratio Lower Upper

113 100

111 102.9 81.9 122.9

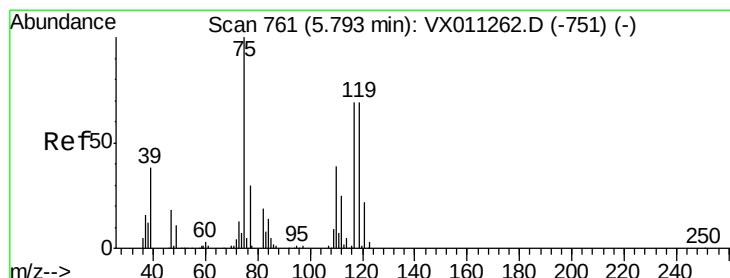
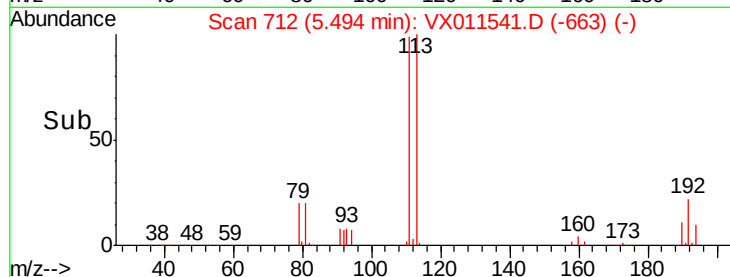
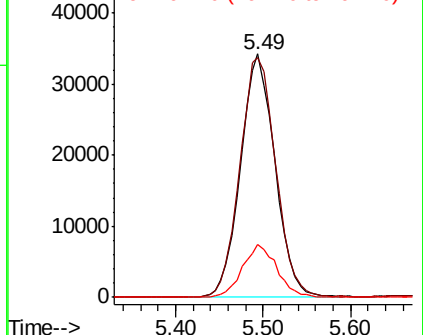
192 21.6 17.8 26.8



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: 5.254 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

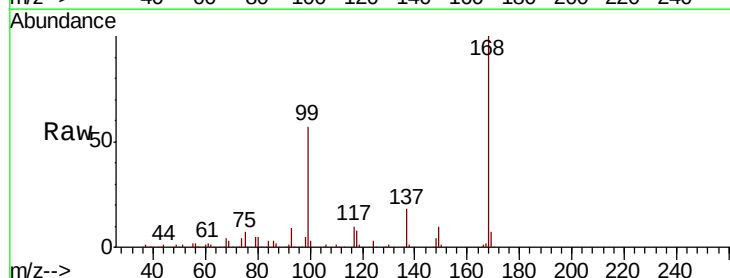
Tgt Ion: 75 Resp: 13987

Ion Ratio Lower Upper

75 100

110 12.4 20.0 59.9#

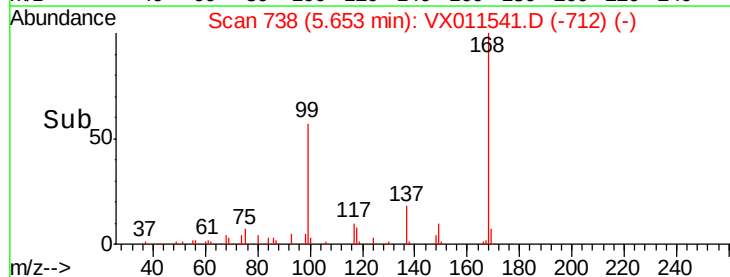
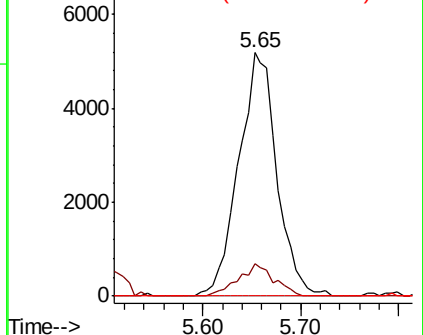
77 0.0 24.8 37.2#

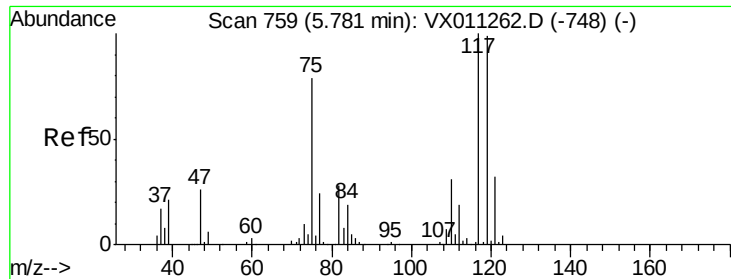


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

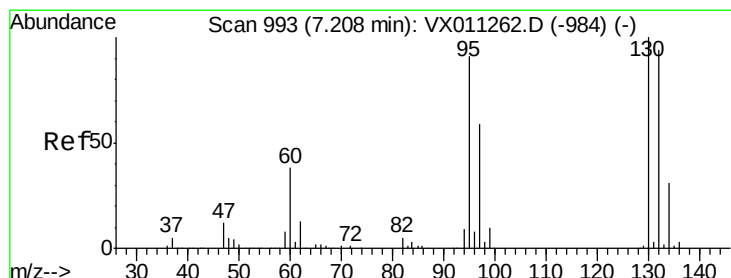
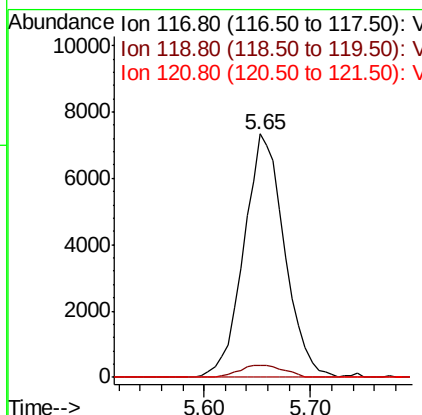
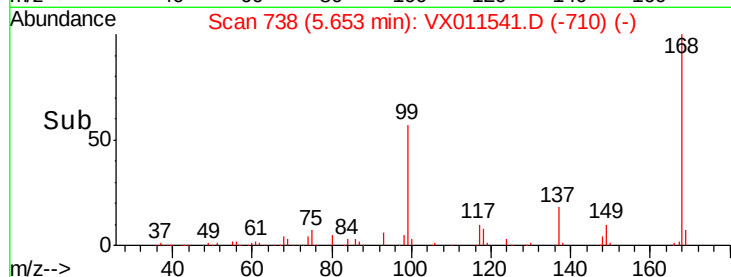
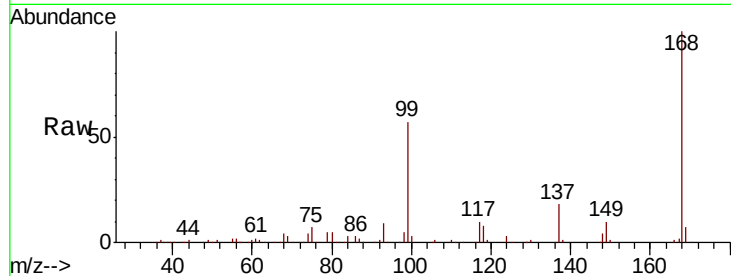




#38
Carbon Tetrachloride
Concen: 7.319 ug/l
RT: 5.65 min Scan# 738
Delta R.T. -0.13 min
Lab File: VX011541.D
Acq: 13 Aug 2019 17:14

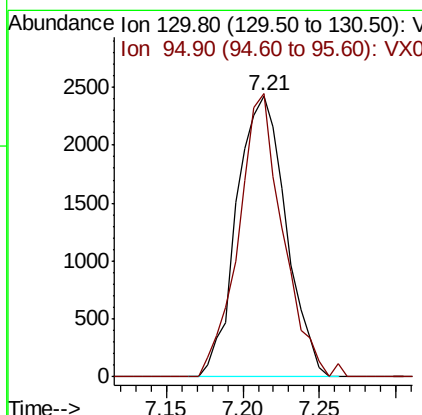
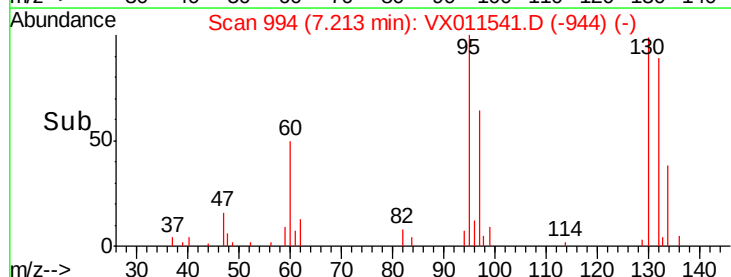
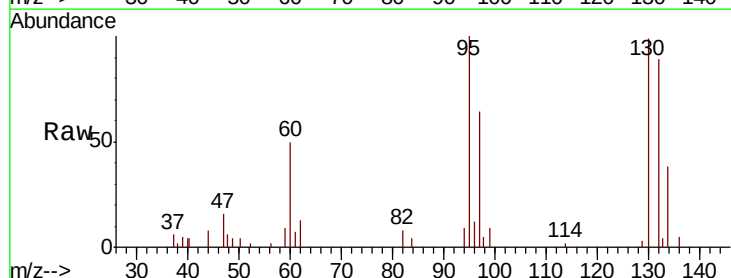
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190812

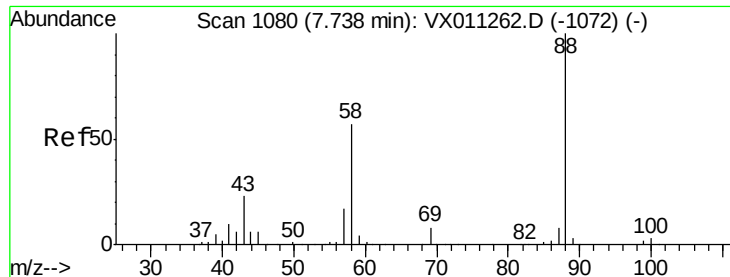
Tgt Ion:117 Resp: 19603
Ion Ratio Lower Upper
117 100
119 4.8 79.0 118.4#
121 0.0 25.9 38.9#



#44
Trichloroethene
Concen: 2.253 ug/l
RT: 7.21 min Scan# 994
Delta R.T. 0.01 min
Lab File: VX011541.D
Acq: 13 Aug 2019 17:14

Tgt Ion:130 Resp: 5418
Ion Ratio Lower Upper
130 100
95 100.7 0.0 182.6





#49

1,4-Dioxane

Concen: 0.790 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.16 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190812

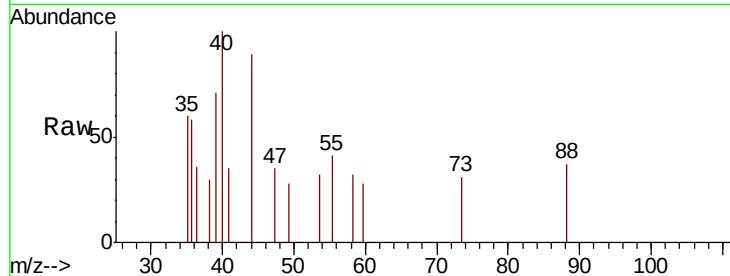
Tgt Ion: 88 Resp: 46

Ion Ratio Lower Upper

88 100

43 0.0 22.2 33.2#

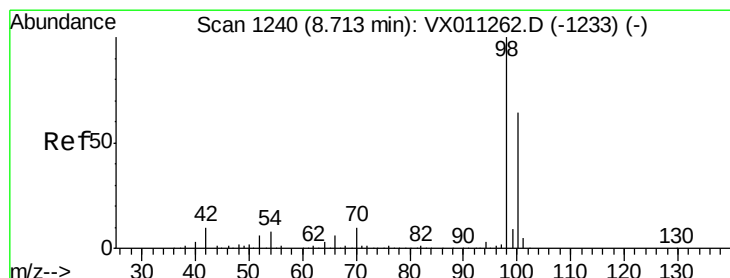
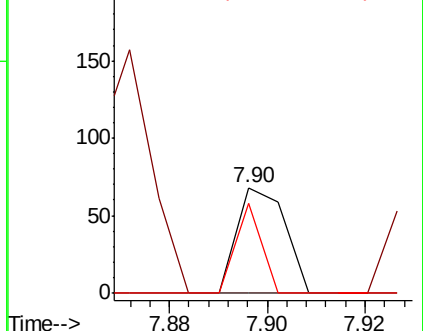
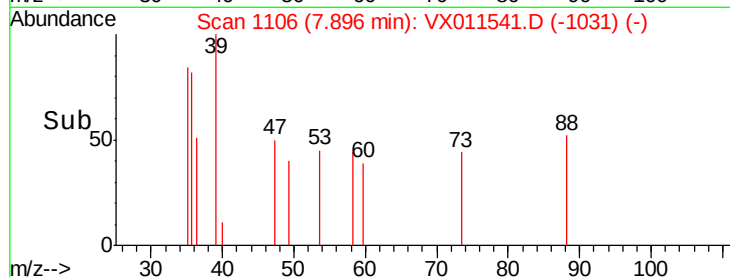
58 45.7 47.8 71.8#



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: 47.378 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011541.D

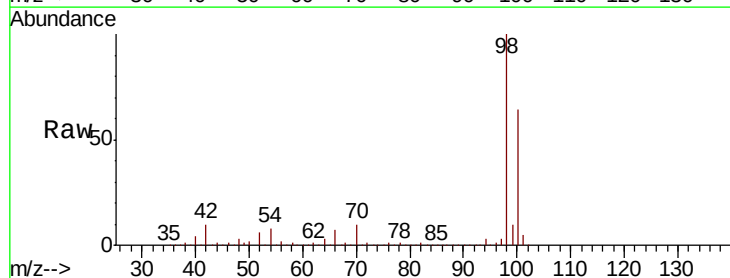
Acq: 13 Aug 2019 17:14

Tgt Ion: 98 Resp: 356032

Ion Ratio Lower Upper

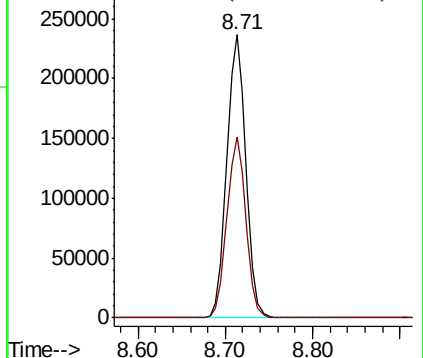
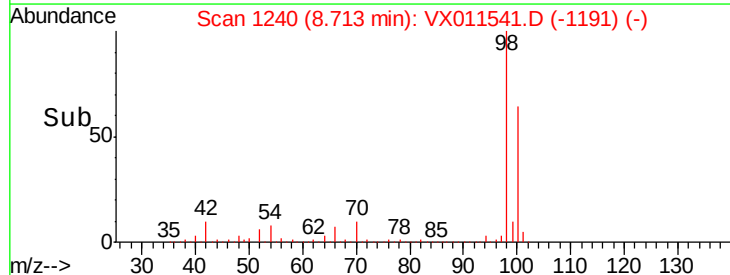
98 100

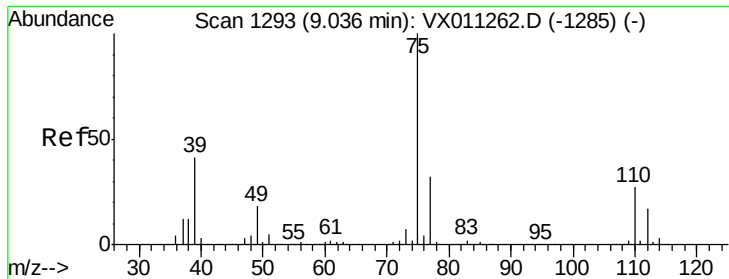
100 63.8 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

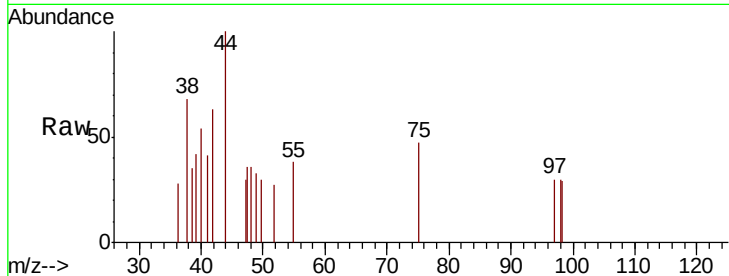




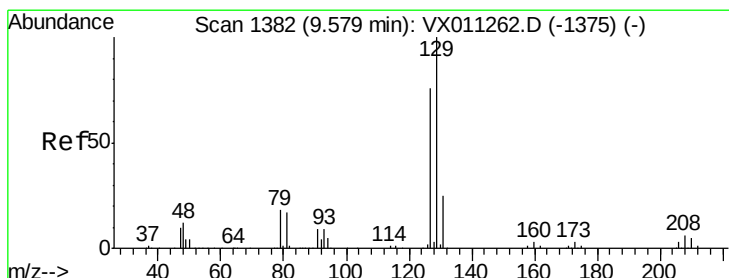
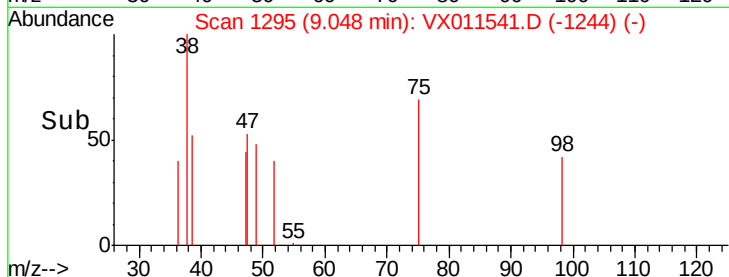
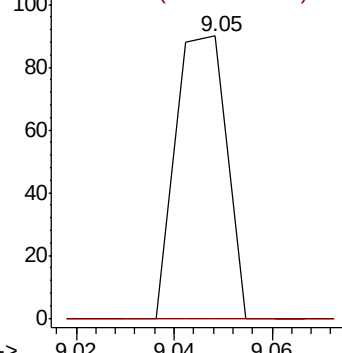
#53
t-1,3-Dichloropropene
Concen: 2.859 ug/l
RT: 9.05 min Scan# 1295
Delta R.T. 0.01 min
Lab File: VX011541.D
Acq: 13 Aug 2019 17:14

Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190812

Tgt Ion: 75 Resp: 65
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#

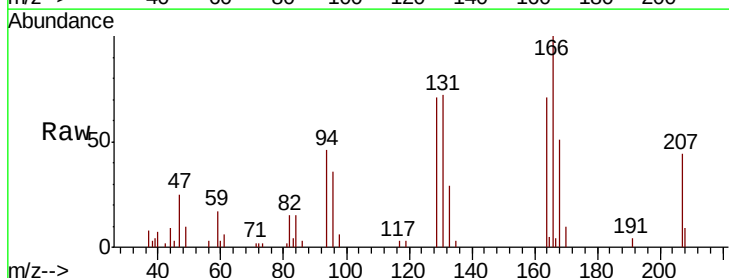


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 76.90 (76.60 to 77.60): VX0

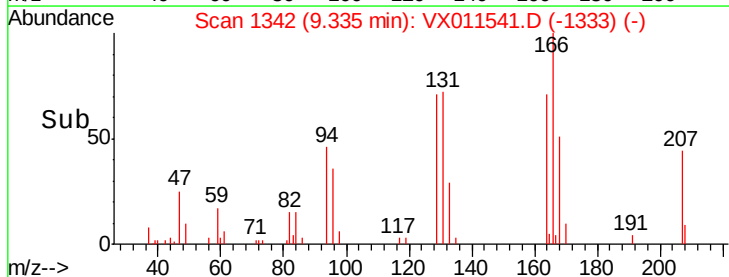
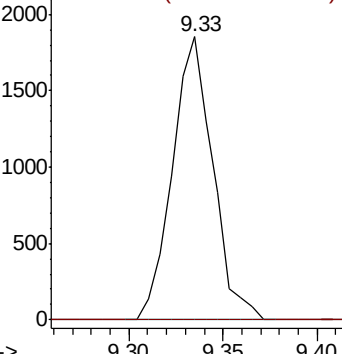


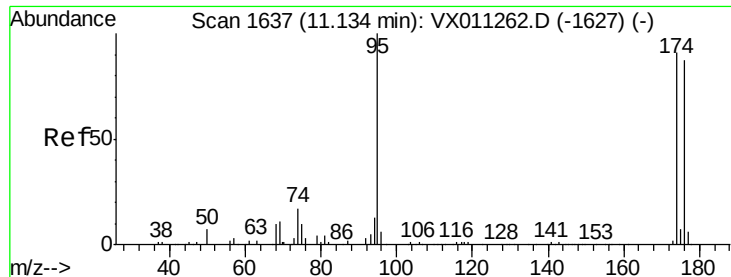
#60
Dibromochloromethane
Concen: 1.243 ug/l
RT: 9.33 min Scan# 1342
Delta R.T. -0.24 min
Lab File: VX011541.D
Acq: 13 Aug 2019 17:14

Tgt Ion: 129 Resp: 2748
Ion Ratio Lower Upper
129 100
127 0.0 39.2 117.6#



Abundance Ion 128.80 (128.50 to 129.50): V
Ion 126.80 (126.50 to 127.50): V

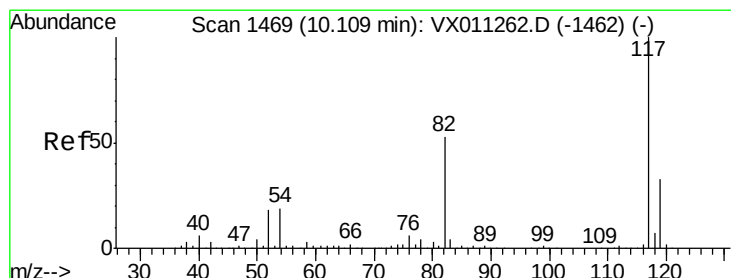
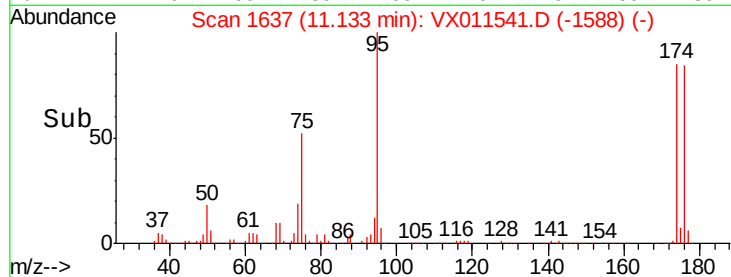
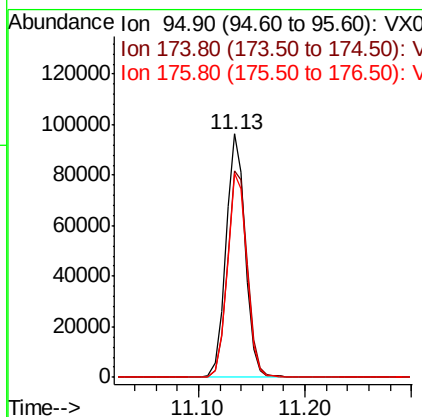
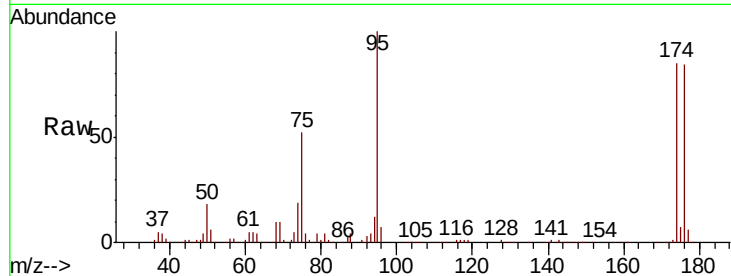




#62
4-Bromofluorobenzene
Concen: 45.321 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX011541.D
Acq: 13 Aug 2019 17:14

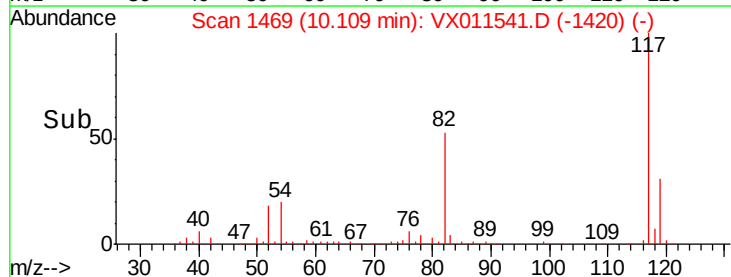
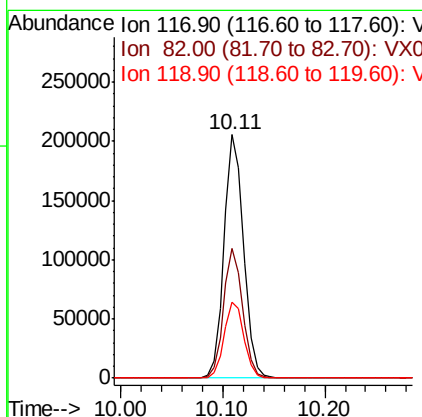
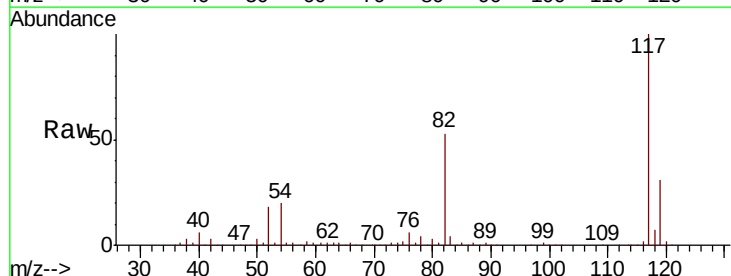
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190812

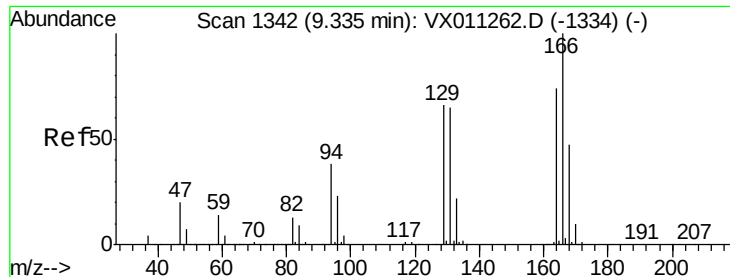
Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.6	0.0	191.2
176	85.5	0.0	184.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011541.D
Acq: 13 Aug 2019 17:14

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.2	42.2	63.2
119	31.4	26.6	39.8





#64

Tetrachloroethene

Concen: 1.291 ug/l

RT: 9.33 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190812

Tgt Ion:164 Resp: 2996

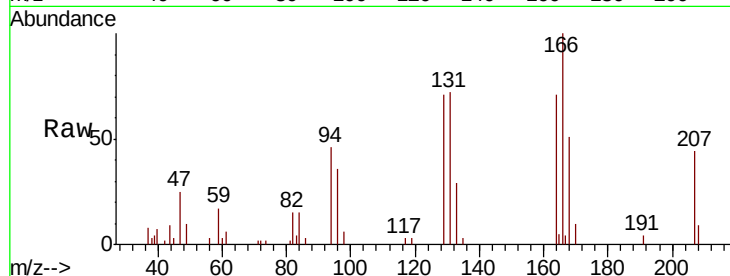
Ion Ratio Lower Upper

164 100

166 140.5 107.5 161.3

129 99.8 71.0 106.4

131 101.2 69.8 104.6

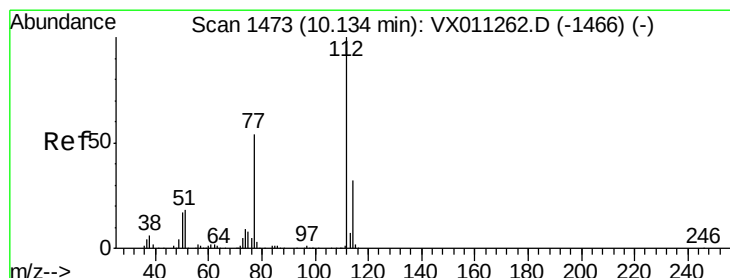
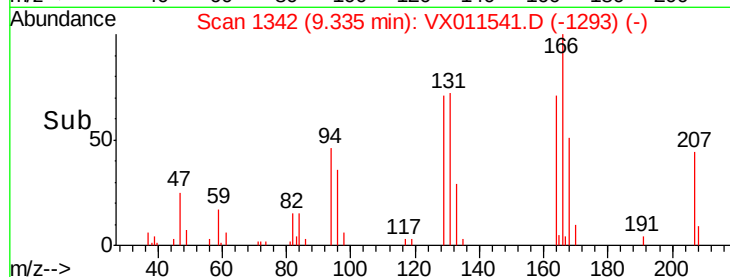
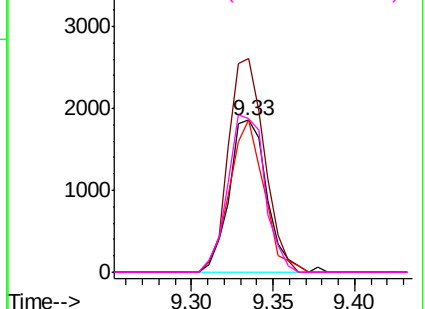


Abundance Ion 163.80 (163.50 to 164.50): V

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



#65

Chlorobenzene

Concen: 1.194 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. -0.00 min

Lab File: VX011541.D

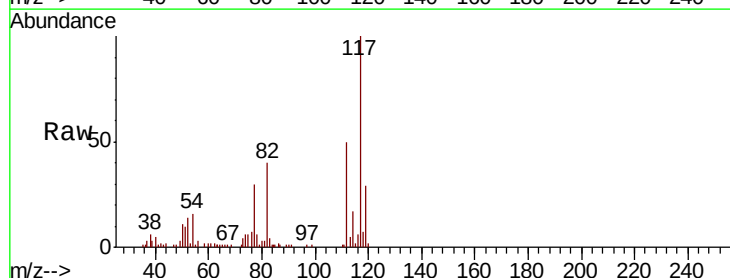
Acq: 13 Aug 2019 17:14

Tgt Ion:112 Resp: 6998

Ion Ratio Lower Upper

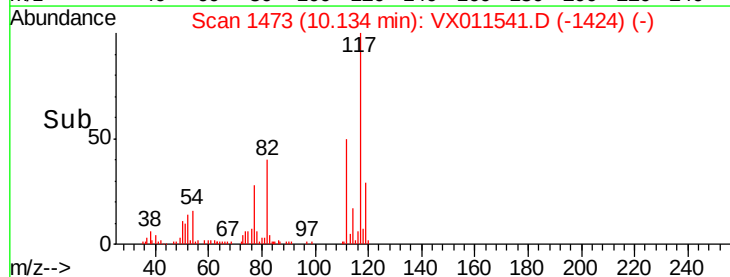
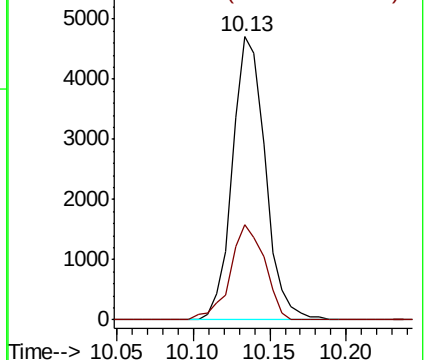
112 100

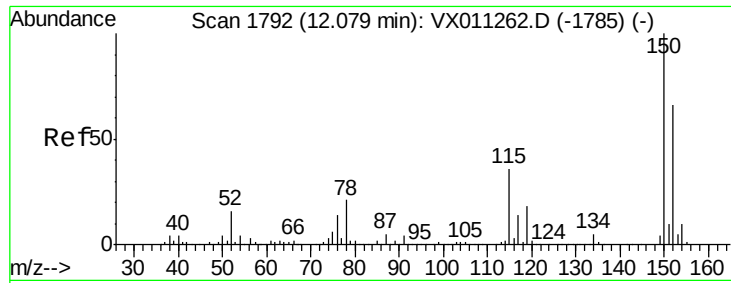
114 33.5 25.9 38.9



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): 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: VX011541.D

Acq: 13 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190812

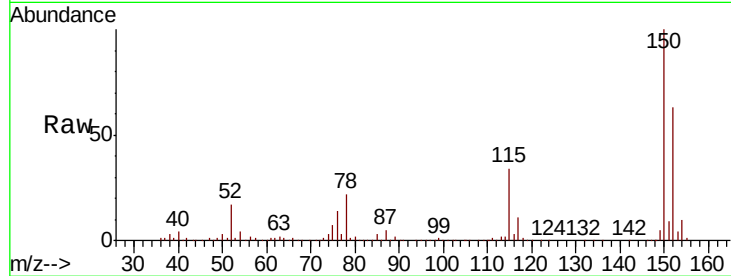
Tgt Ion:152 Resp: 122214

Ion Ratio Lower Upper

152 100

115 56.5 40.0 119.9

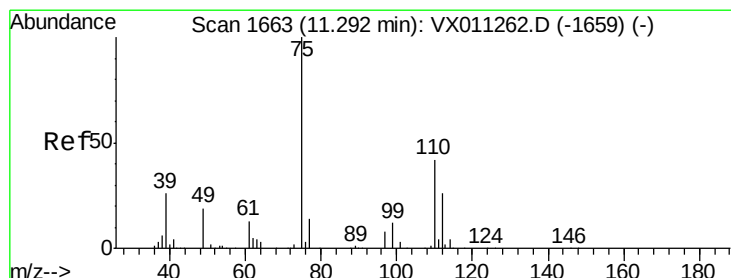
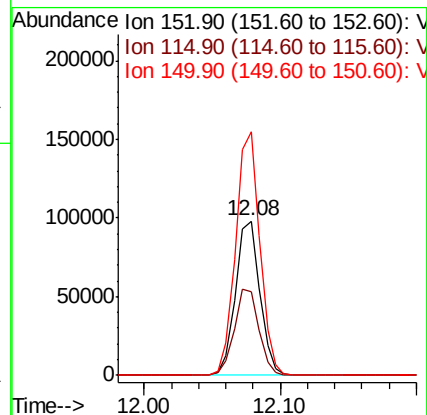
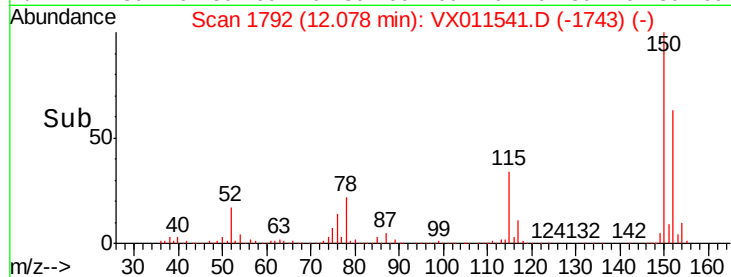
150 156.3 0.0 350.4



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



#76

1,2,3-Trichloropropane

Concen: 27.947 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011541.D

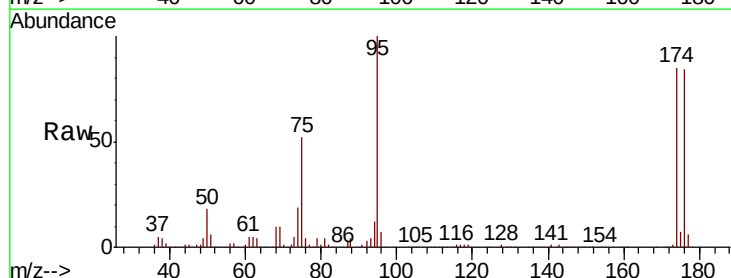
Acq: 13 Aug 2019 17:14

Tgt Ion: 75 Resp: 62201

Ion Ratio Lower Upper

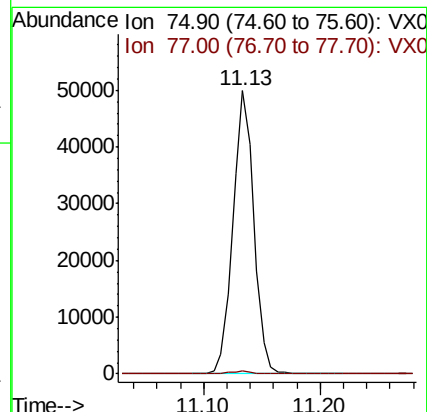
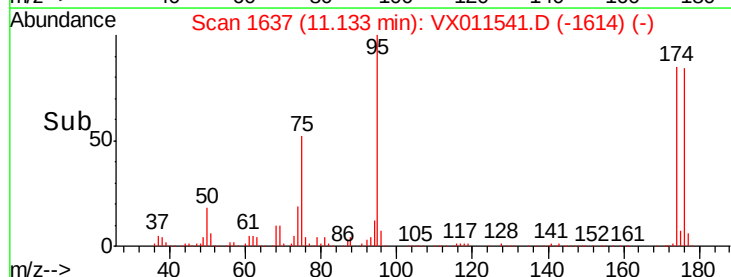
75 100

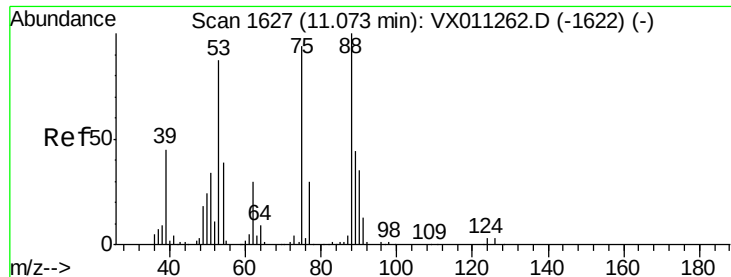
77 1.0 21.1 63.4#



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: 72.397 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011541.D

Acq: 13 Aug 2019 17:14

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190812

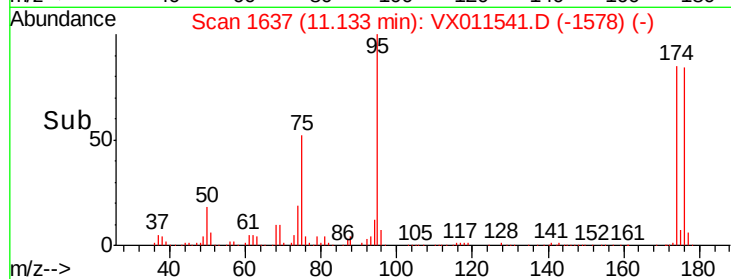
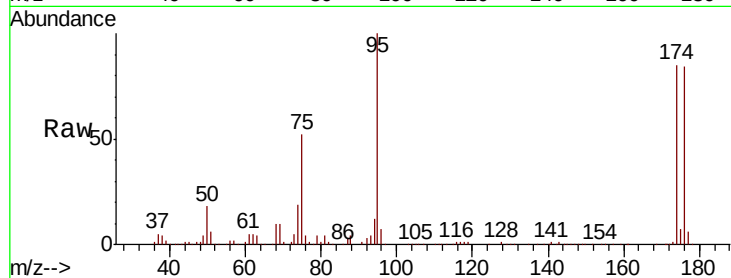
Tgt Ion: 75 Resp: 62201

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

89 0.0 37.9 56.9#



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

