

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX061819\
 Data File : VX010336.D
 Acq On : 18 Jun 2019 12:29
 Operator : JC/SP
 Sample : K3427-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190617

Quant Time: Jun 19 01:16:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X060719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 08 02:12:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	309821	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	469093	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	419550	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	196912	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	141364	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	
35) Dibromofluoromethane	5.50	113	142739	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
50) Toluene-d8	8.71	98	550054	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
62) 4-Bromofluorobenzene	11.13	95	186807	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	

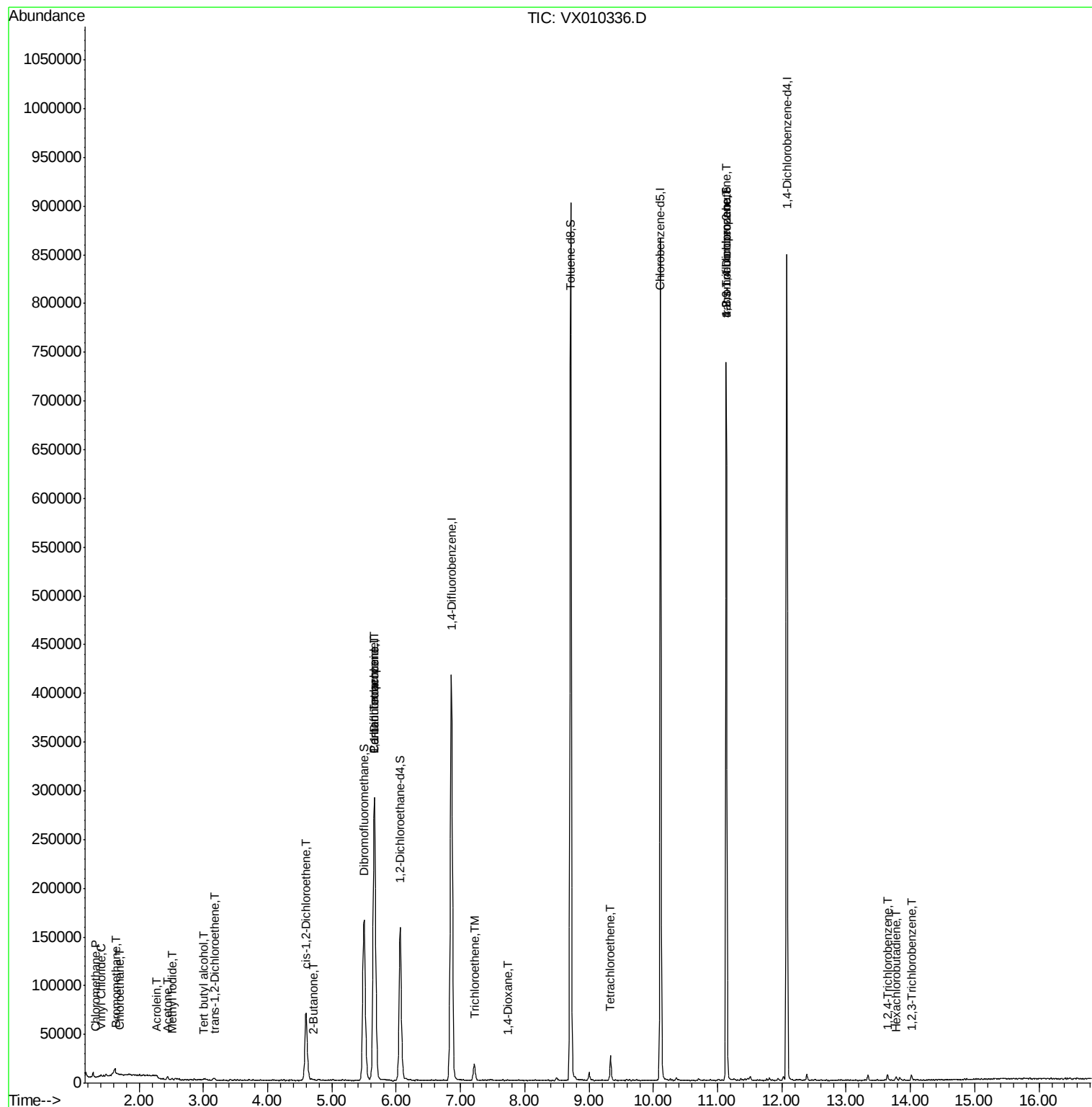
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	758	0.268	ug/l #	79
4) Vinyl Chloride	1.41	62	770	0.289	ug/l #	70
5) Bromomethane	1.64	94	497	0.495	ug/l	83
6) Chloroethane	1.70	64	567	0.423	ug/l #	45
10) Methyl Iodide	2.52	142	1188	0.281	ug/l #	88
11) Tert butyl alcohol	3.01	59	496	0.670	ug/l #	1
13) Acrolein	2.28	56	48	0.355	ug/l #	1
16) Acetone	2.44	43	2823	1.985	ug/l	97
21) trans-1,2-Dichloroethene	3.17	96	719	0.233	ug/l #	80
25) 2-Butanone	4.71	43	1060	0.500	ug/l	95
27) cis-1,2-Dichloroethene	4.60	96	48706	14.216	ug/l	69
36) 1,1-Dichloropropene	5.67	75	18429	4.815	ug/l #	52
38) Carbon Tetrachloride	5.66	117	26391	6.092	ug/l #	16
44) Trichloroethene	7.21	130	7504	2.104	ug/l	83
49) 1,4-Dioxane	7.75	88	21	0.237	ug/l #	1
64) Tetrachloroethene	9.34	164	5176	1.661	ug/l	95
76) 1,2,3-Trichloropropane	11.13	75	85516	21.712	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	85516	47.972	ug/l #	10
93) 1,2,4-Trichlorobenzene	13.65	180	1636	0.345	ug/l	96
94) Hexachlorobutadiene	13.77	225	468	0.222	ug/l	88
96) 1,2,3-Trichlorobenzene	14.02	180	1382	0.295	ug/l	99

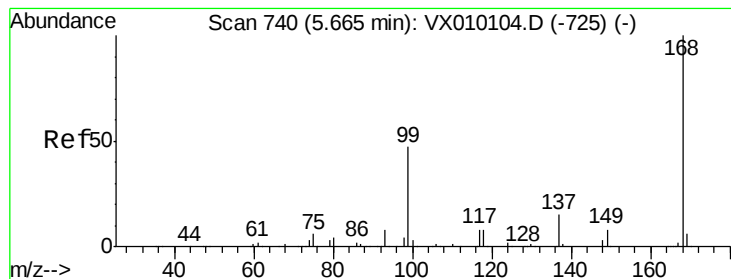
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Jun 08 02:12:13 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: VX010336.D

Acq: 18 Jun 2019 12:29

Instrument :

MSVOA_X

ClientSampleId :

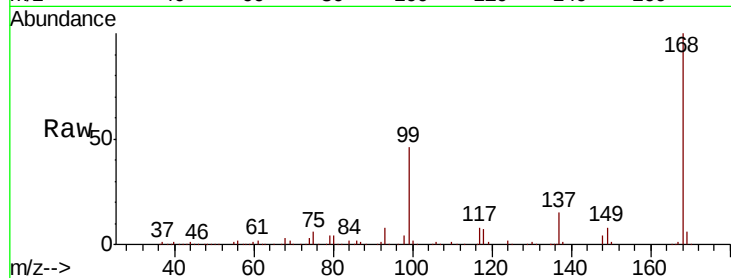
KY038PS027-190617

Tot Ion:168 Resp: 309821

Ion Ratio Lower Upper

168 100

99 45.8 43.0 64.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

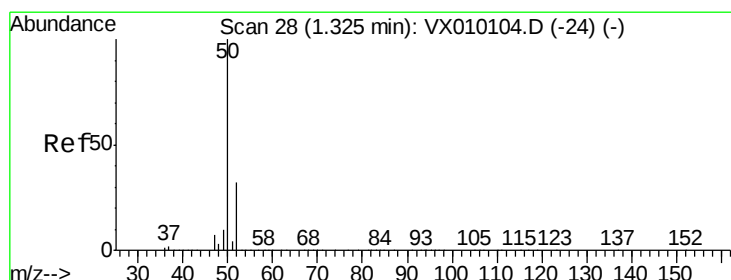
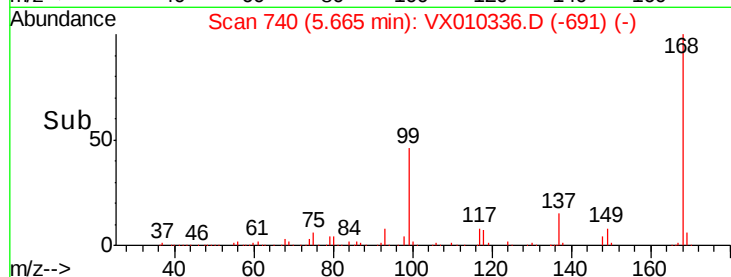
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.268 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.00 min

Lab File: VX010336.D

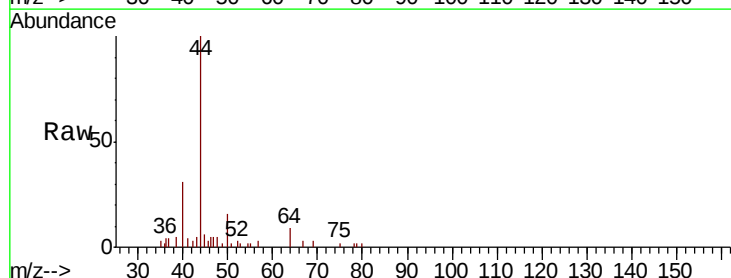
Acq: 18 Jun 2019 12:29

Tgt Ion: 50 Resp: 758

Ion Ratio Lower Upper

50 100

52 20.9 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

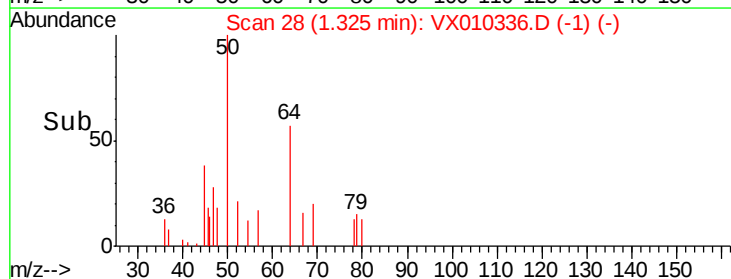
300

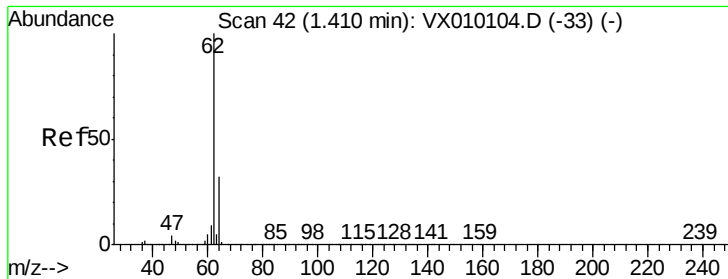
200

100

0

Time--> 1.30 1.35





#4

Vinyl Chloride

Concen: 0.289 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

Instrument :

MSVOA_X

ClientSampleId :

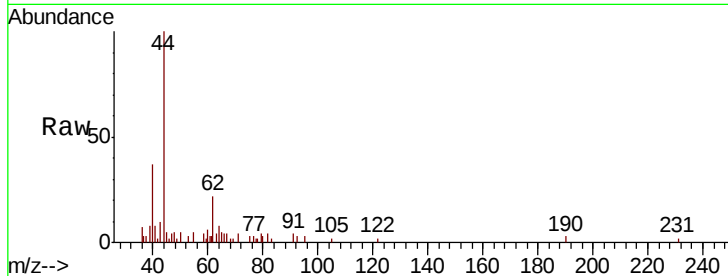
KY038PS027-190617

Tot Ion: 62 Resp: 770

Ion Ratio Lower Upper

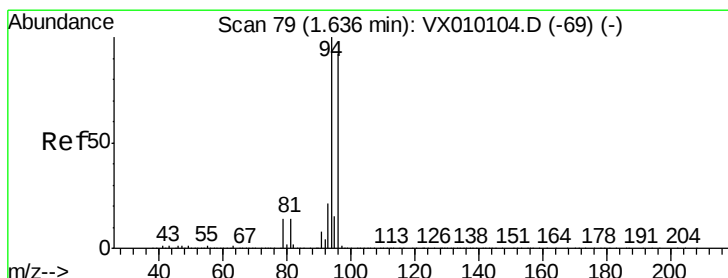
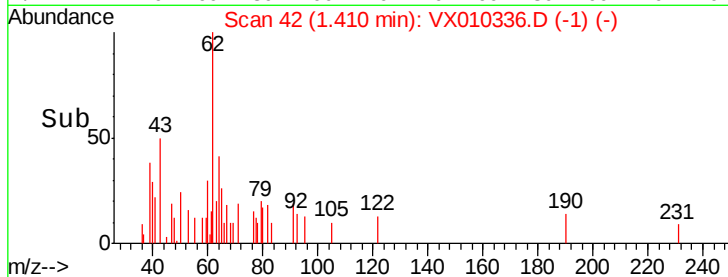
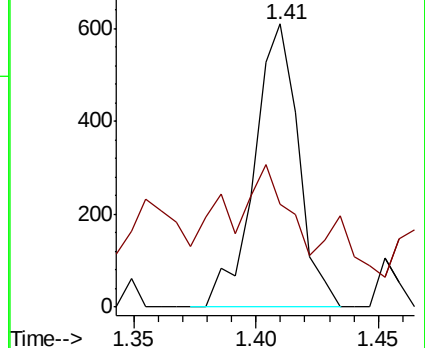
62 100

64 15.1 25.7 38.5#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.495 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX010336.D

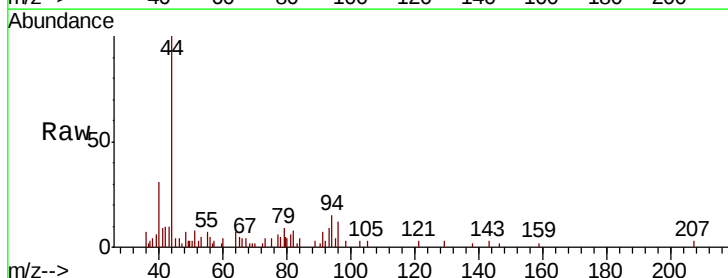
Acq: 18 Jun 2019 12:29

Tgt Ion: 94 Resp: 497

Ion Ratio Lower Upper

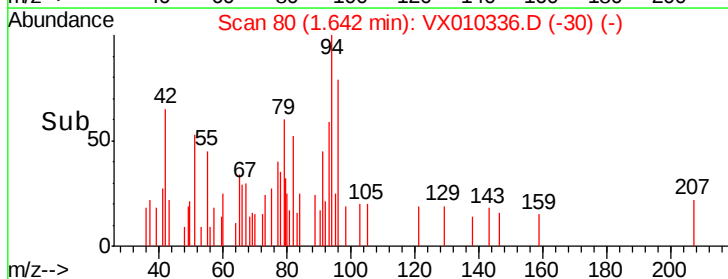
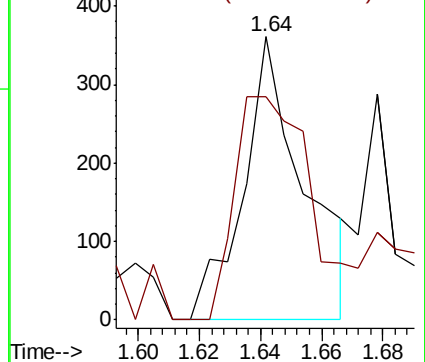
94 100

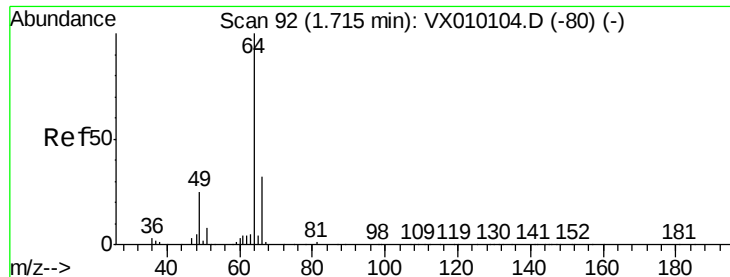
96 78.7 76.2 114.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.423 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

Instrument :

MSVOA_X

ClientSampleId :

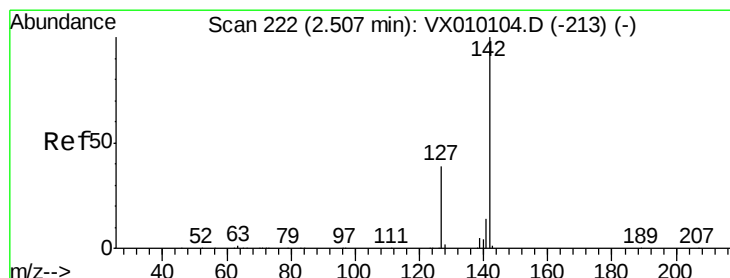
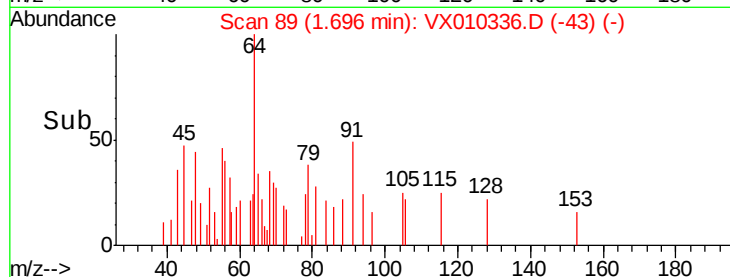
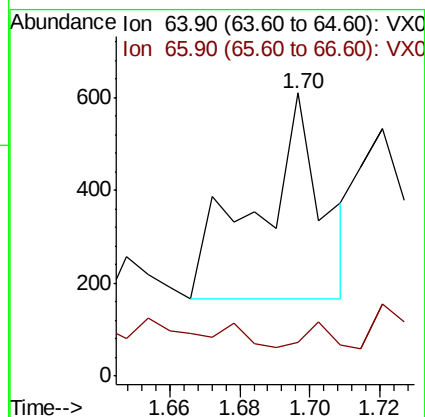
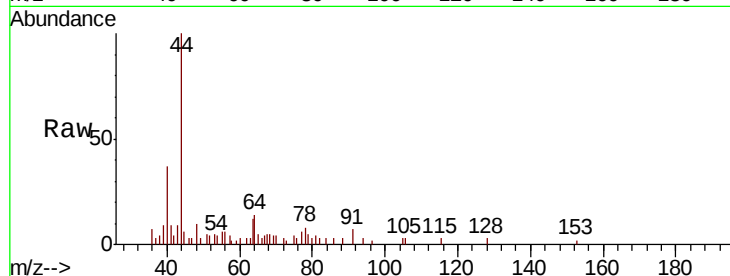
KY038PS027-190617

Tot Ion: 64 Resp: 567

Ion Ratio Lower Upper

64 100

66 1.1 25.1 37.7#



#10

Methyl Iodide

Concen: 0.281 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

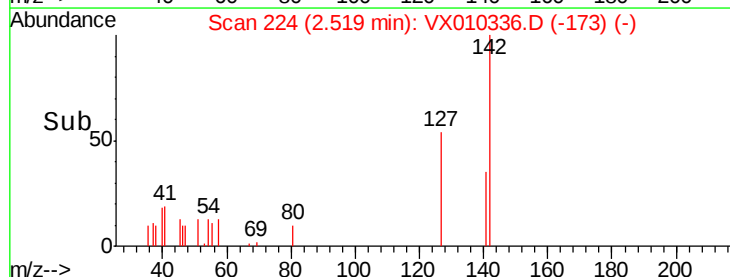
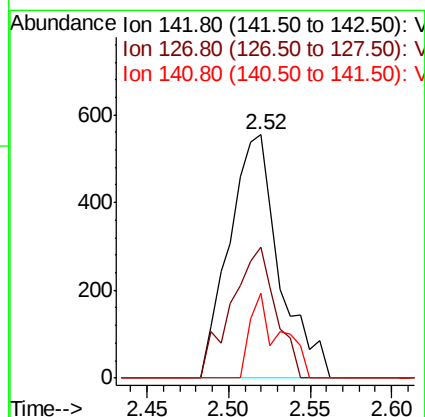
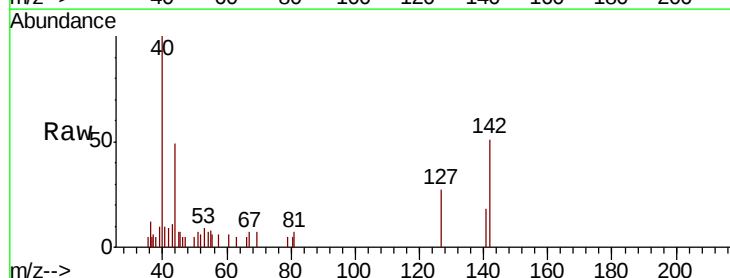
Tgt Ion: 142 Resp: 1188

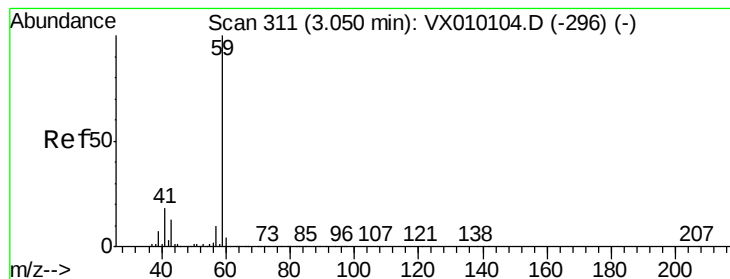
Ion Ratio Lower Upper

142 100

127 47.5 33.0 49.4

141 20.9 11.4 17.0#



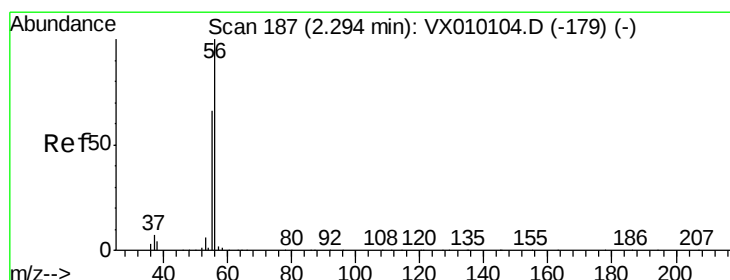
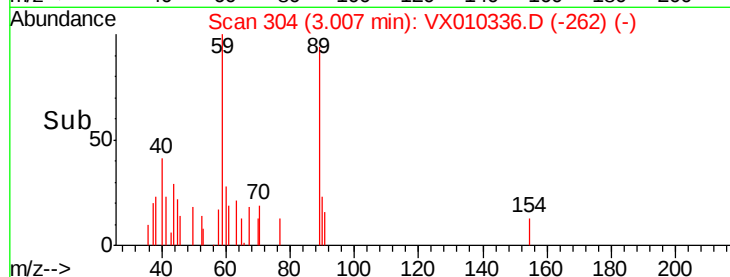
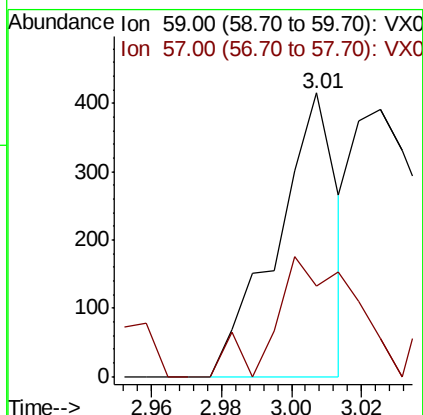
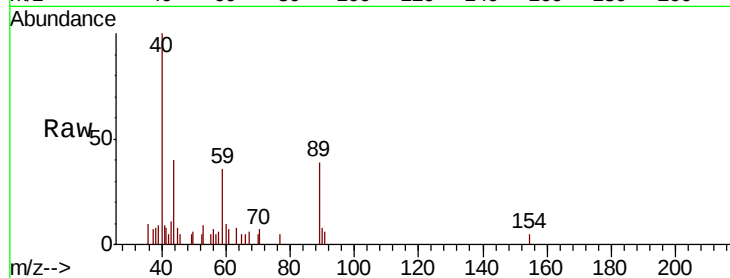


#11

Tert butyl alcohol
Concen: 0.670 ug/l
RT: 3.01 min Scan# 304
Delta R.T. -0.04 min
Lab File: VX010336.D
Acq: 18 Jun 2019 12:29

Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190617

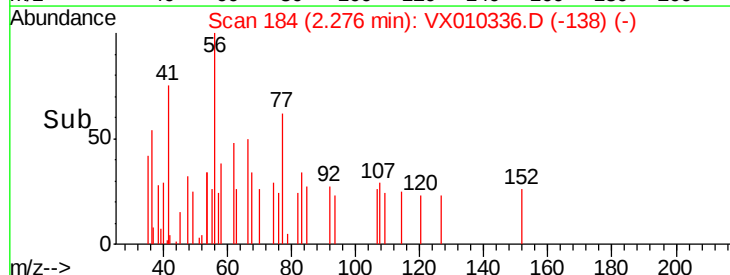
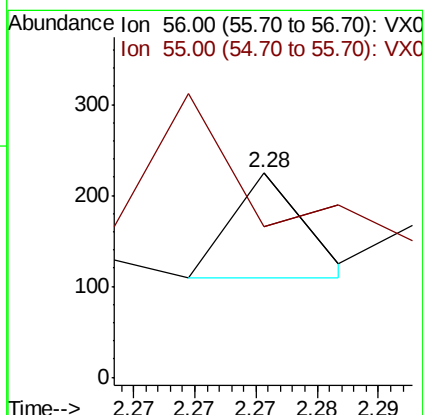
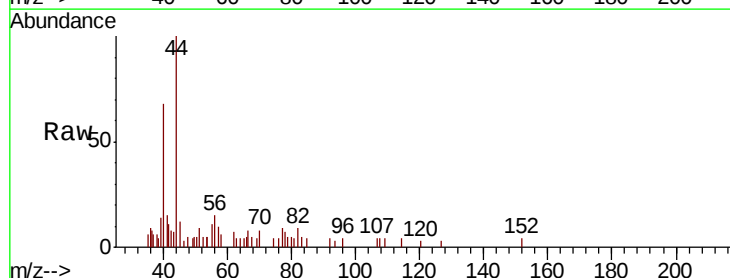
Tot Ion: 59 Resp: 496
Ion Ratio Lower Upper
59 100
57 55.8 8.2 12.2#

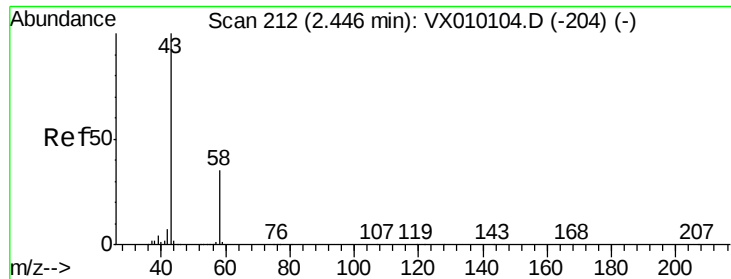


#13

Acrolein
Concen: 0.355 ug/l
RT: 2.28 min Scan# 184
Delta R.T. -0.02 min
Lab File: VX010336.D
Acq: 18 Jun 2019 12:29

Tgt Ion: 56 Resp: 48
Ion Ratio Lower Upper
56 100
55 758.3 57.0 85.4#





#16

Acetone

Concen: 1.985 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

Instrument :

MSVOA_X

ClientSampleId :

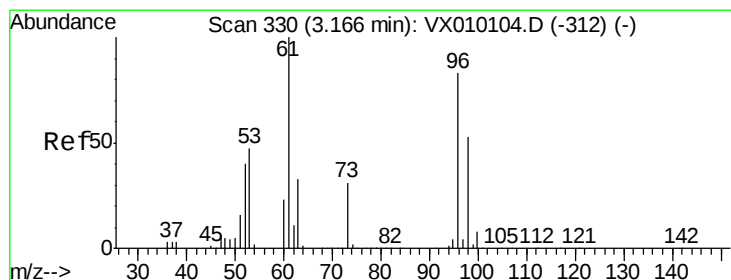
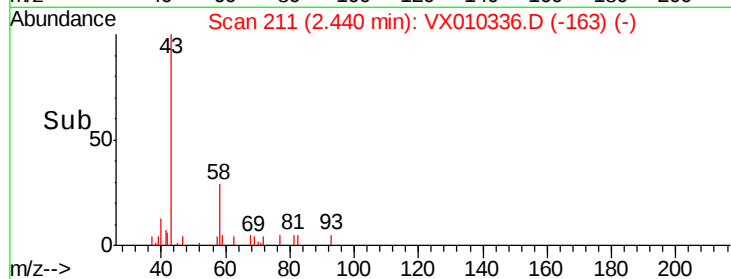
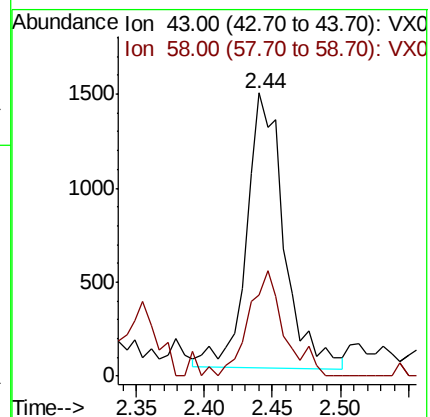
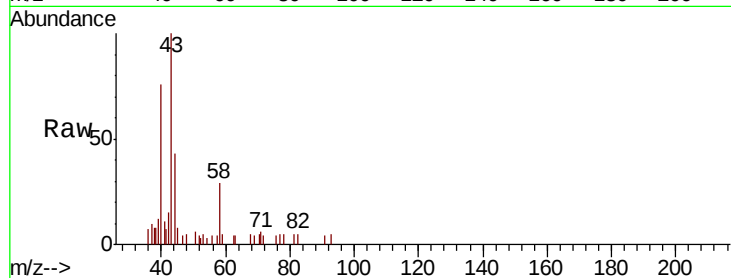
KY038PS027-190617

Tot Ion: 43 Resp: 2823

Ion Ratio Lower Upper

43 100

58 30.5 23.2 34.8



#21

trans-1,2-Dichloroethene

Concen: 0.233 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

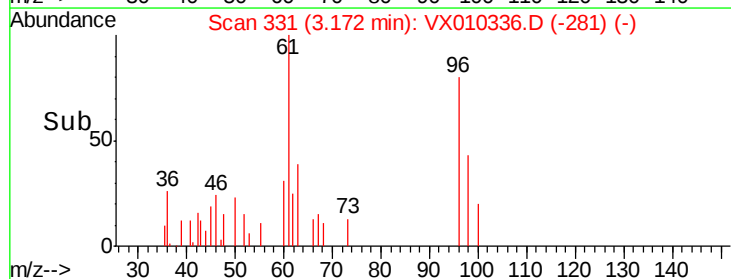
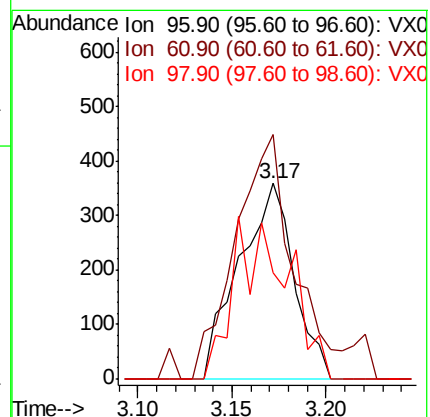
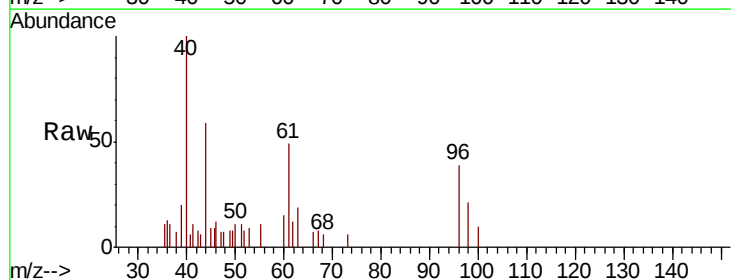
Tgt Ion: 96 Resp: 719

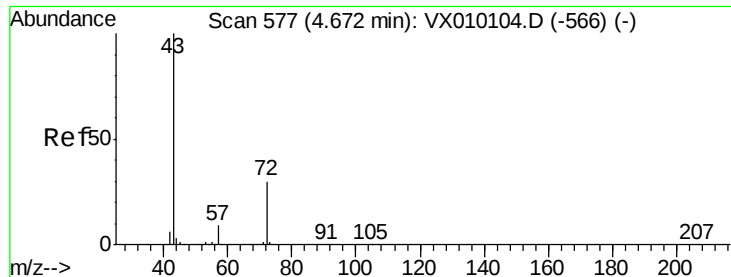
Ion Ratio Lower Upper

96 100

61 125.1 125.7 188.5#

98 54.2 49.0 73.6





#25

2-Butanone

Concen: 0.500 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.04 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

Instrument :

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ClientSampleId :

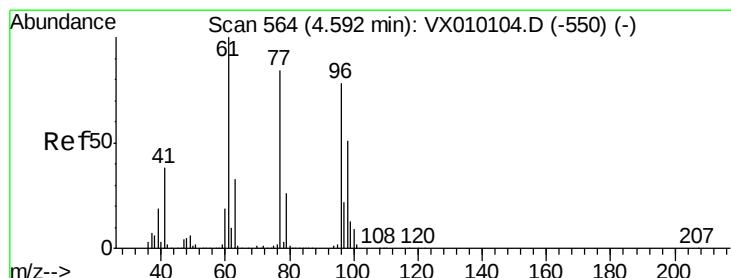
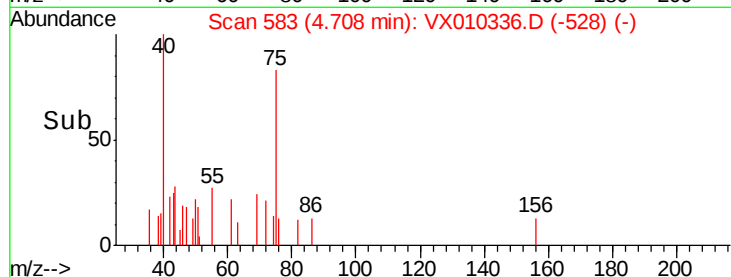
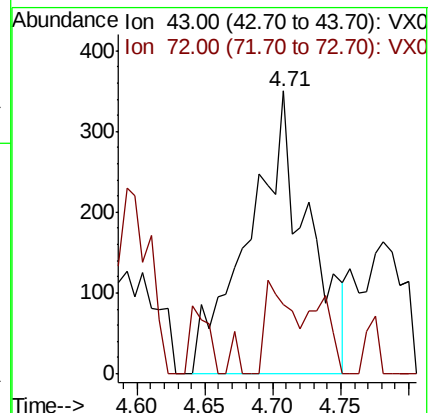
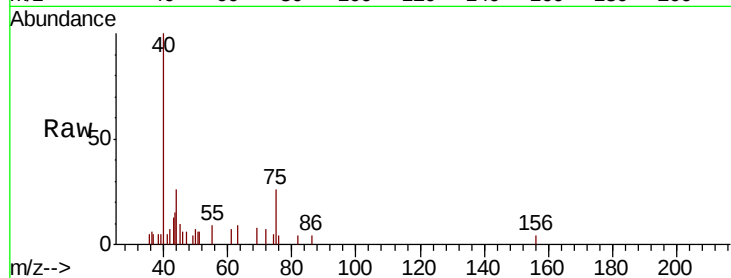
KY038PS027-190617

Tot Ion: 43 Resp: 1060

Ion Ratio Lower Upper

43 100

72 24.3 17.5 26.3



#27

cis-1,2-Dichloroethene

Concen: 14.216 ug/l

RT: 4.60 min Scan# 565

Delta R.T. 0.01 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

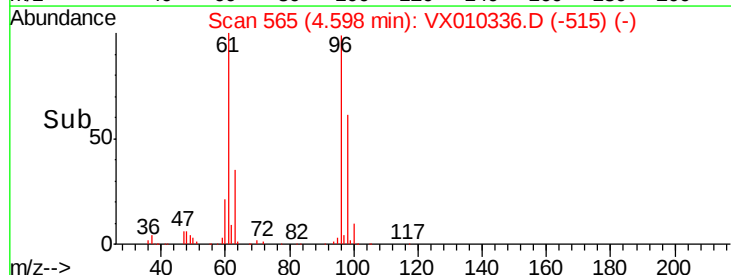
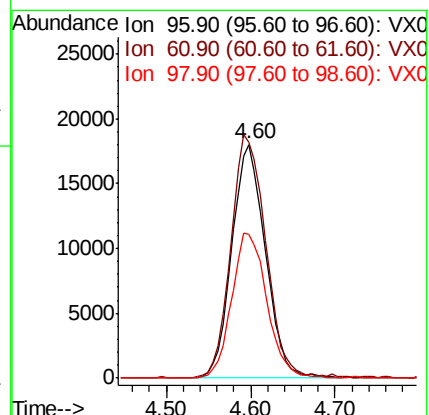
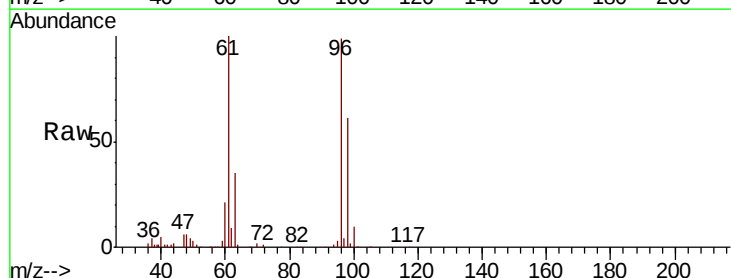
Tgt Ion: 96 Resp: 48706

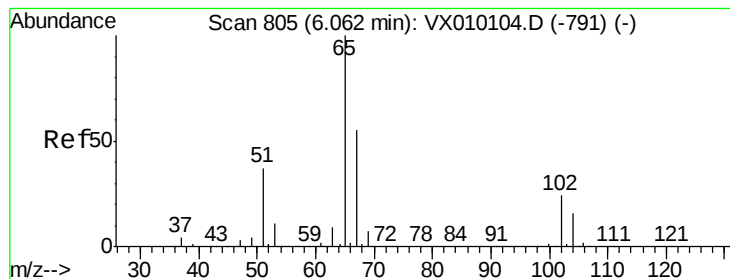
Ion Ratio Lower Upper

96 100

61 108.3 0.0 334.0

98 65.0 0.0 131.6





#33

1,2-Dichloroethane-d4

Concen: 46.744 ug/l

RT: 6.06 min Scan# 805

Delta R.T. 0.00 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

Instrument :

MSVOA_X

ClientSampleId :

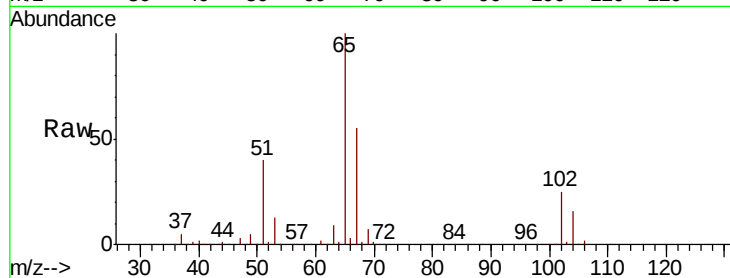
KY038PS027-190617

Tot Ion: 65 Resp: 141364

Ion Ratio Lower Upper

65 100

67 54.5 0.0 108.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

60000

50000

40000

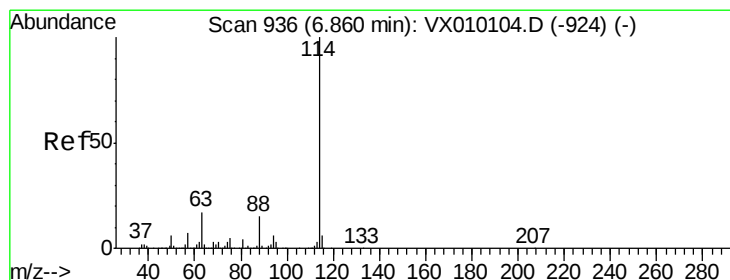
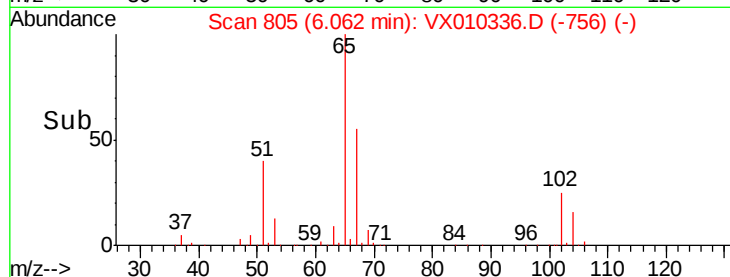
30000

20000

10000

0

Time--> 5.90 6.00 6.10 6.20



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

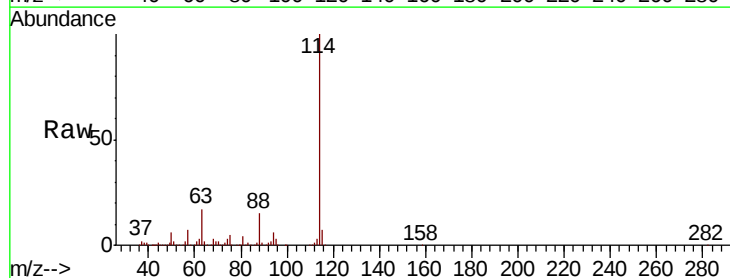
Tgt Ion: 114 Resp: 469093

Ion Ratio Lower Upper

114 100

63 16.6 0.0 47.4

88 14.5 0.0 33.0



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

250000

200000

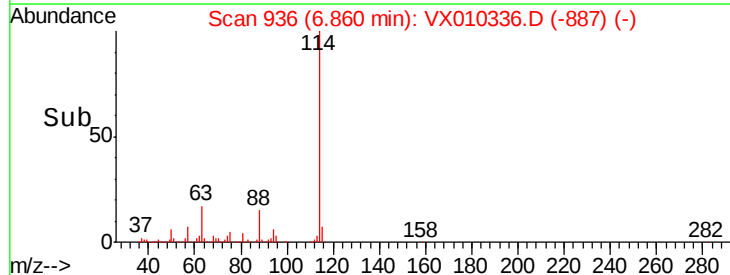
150000

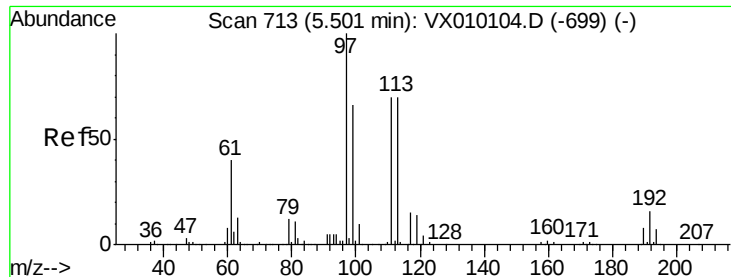
100000

50000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 49.331 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190617

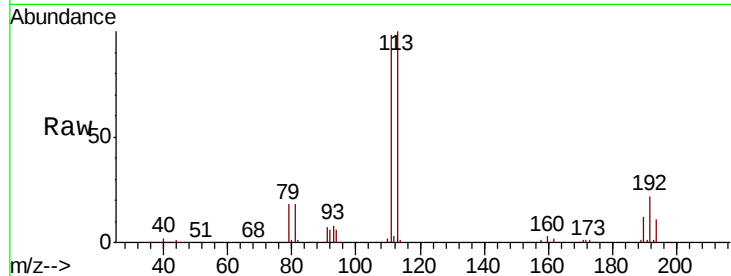
Tot Ion:113 Resp: 142739

Ion Ratio Lower Upper

113 100

111 101.0 82.2 123.2

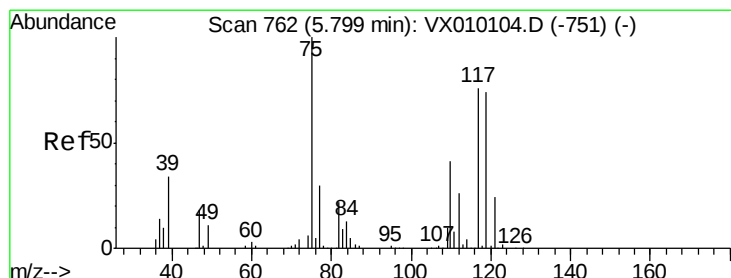
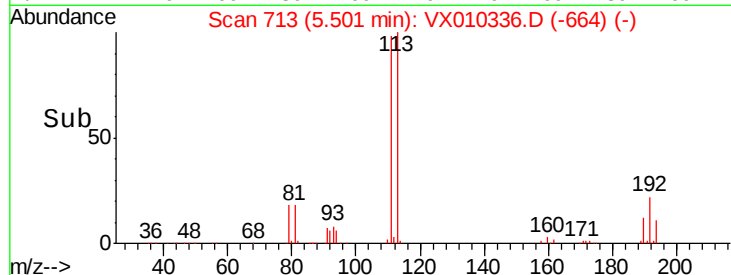
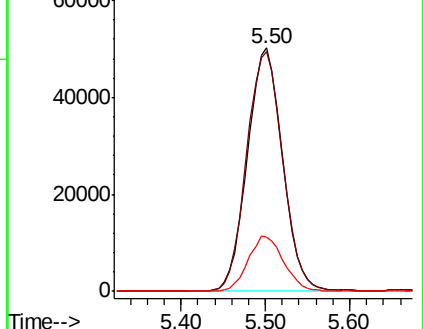
192 23.0 17.1 25.7



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: 4.815 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

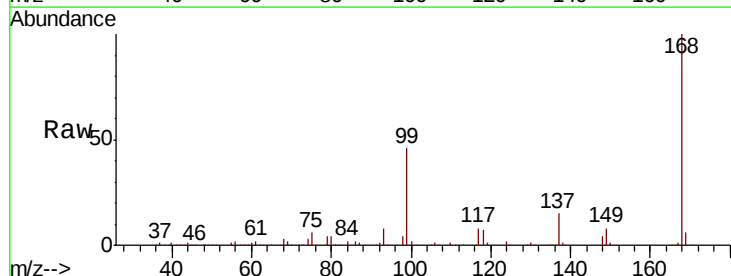
Tgt Ion: 75 Resp: 18429

Ion Ratio Lower Upper

75 100

110 10.5 16.7 50.1#

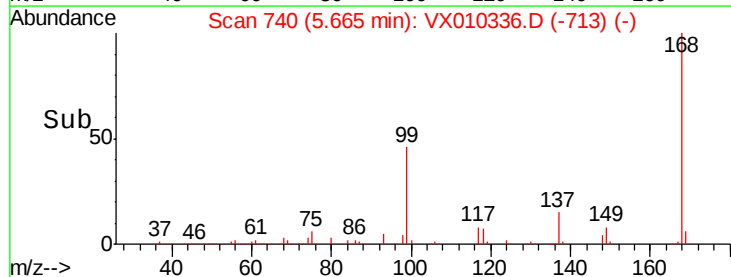
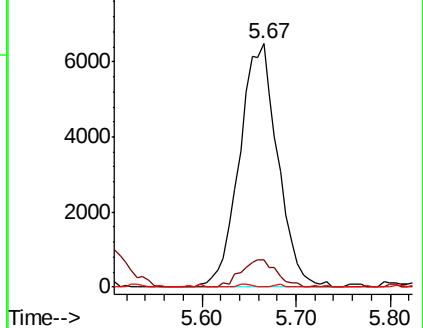
77 0.4 25.0 37.4#

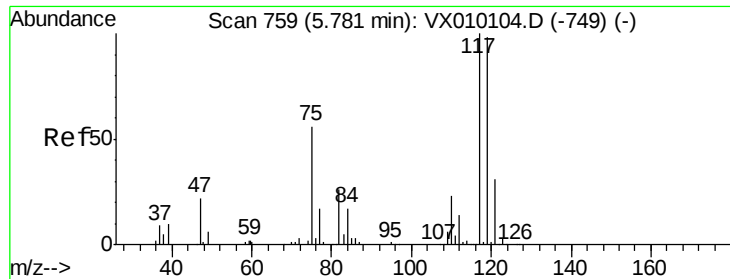


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

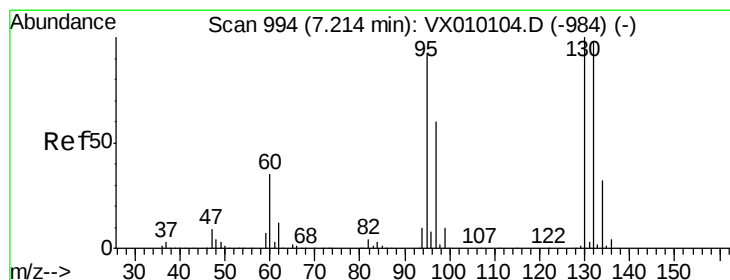
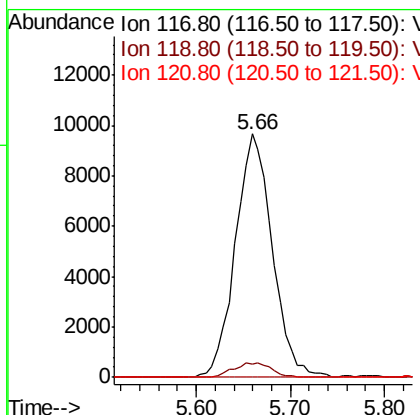
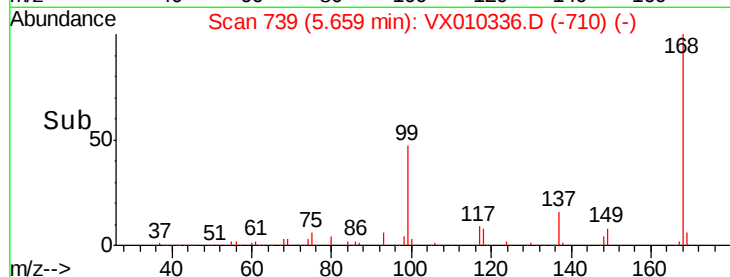
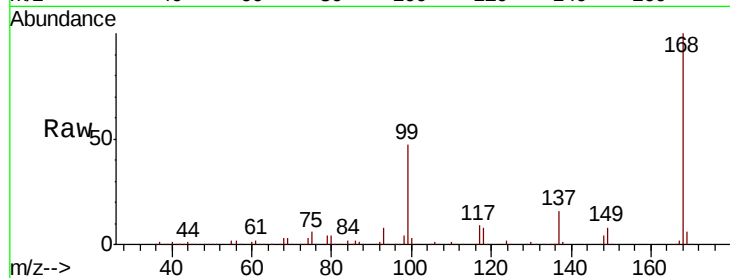




#38
Carbon Tetrachloride
Concen: 6.092 ug/l
RT: 5.66 min Scan# 739
Delta R.T. -0.12 min
Lab File: VX010336.D
Acq: 18 Jun 2019 12:29

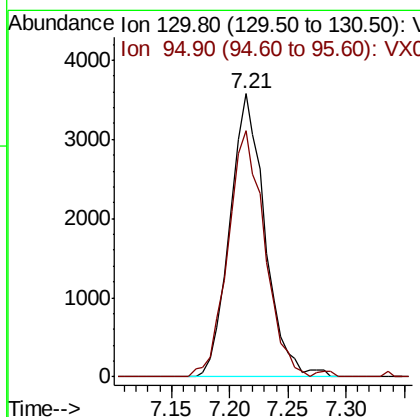
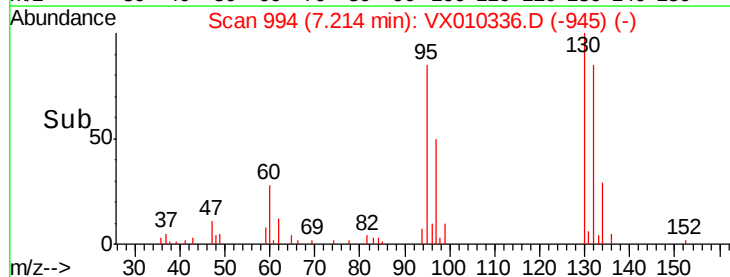
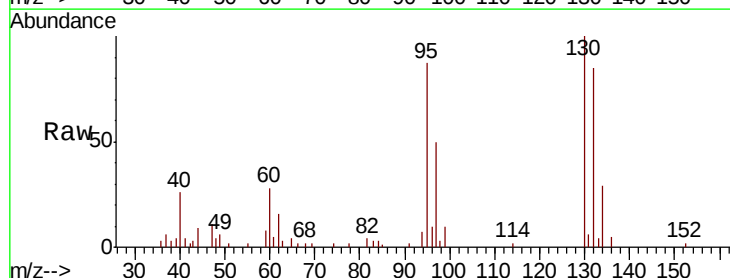
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190617

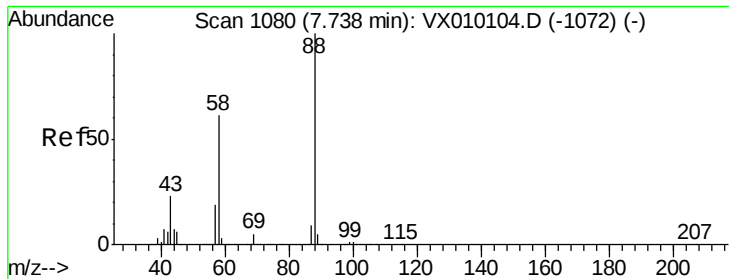
Tot Ion:117 Resp: 26391
Ion Ratio Lower Upper
117 100
119 5.5 77.3 115.9#
121 0.0 25.4 38.0#



#44
Trichloroethene
Concen: 2.104 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.00 min
Lab File: VX010336.D
Acq: 18 Jun 2019 12:29

Tgt Ion:130 Resp: 7504
Ion Ratio Lower Upper
130 100
95 86.8 0.0 207.4

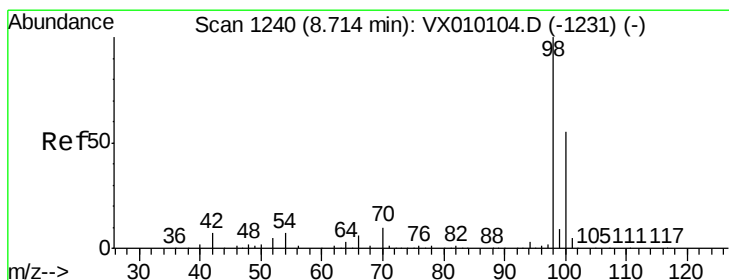
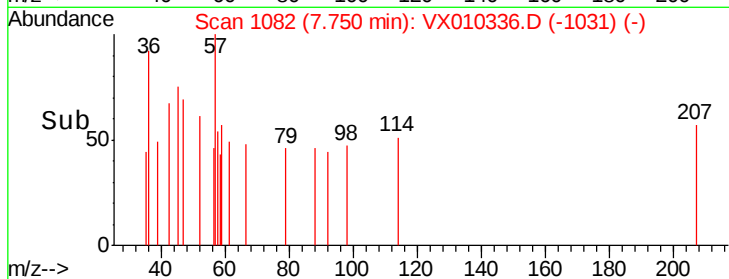
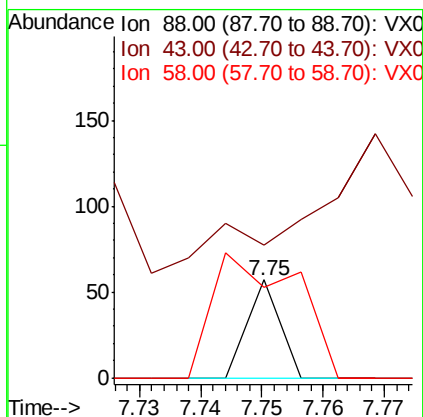
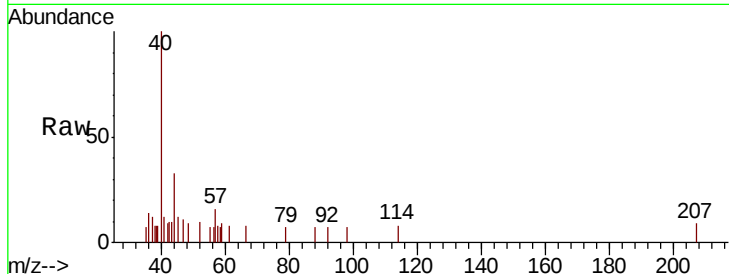




#49
1,4-Dioxane
Concen: 0.237 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.01 min
Lab File: VX010336.D
Acq: 18 Jun 2019 12:29

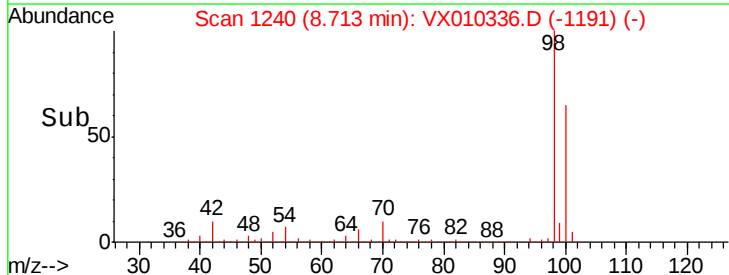
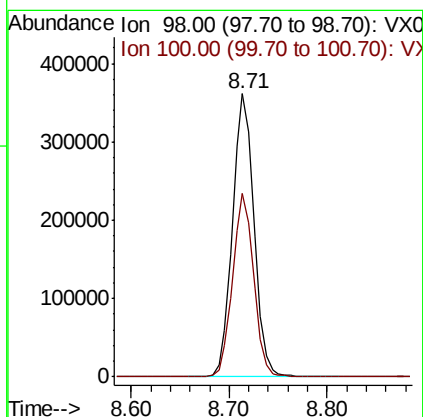
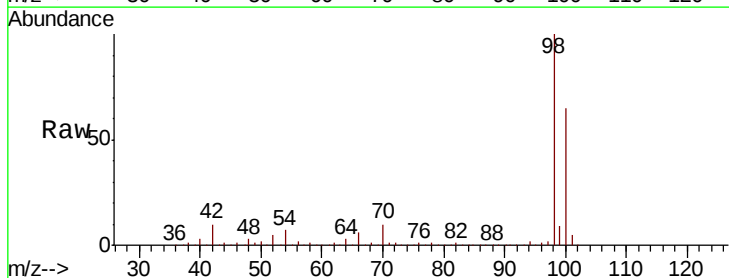
Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190617

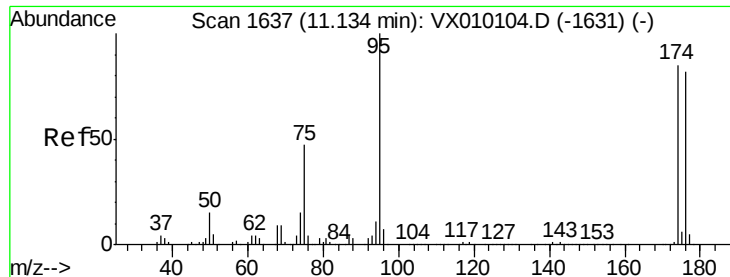
Tot Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
43 0.0 30.2 45.4#
58 328.6 64.0 96.0#



#50
Toluene-d8
Concen: 50.723 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX010336.D
Acq: 18 Jun 2019 12:29

Tgt Ion: 98 Resp: 550054
Ion Ratio Lower Upper
98 100
100 63.8 51.5 77.3

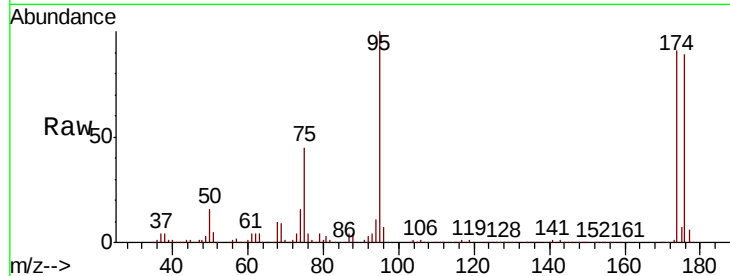




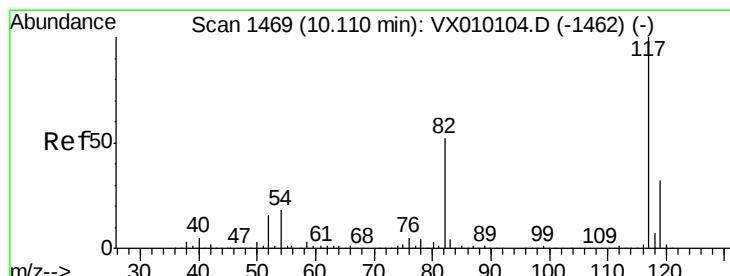
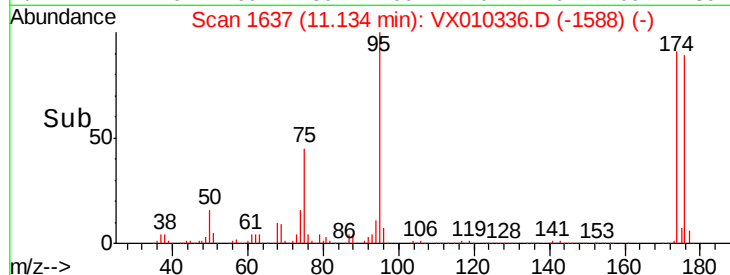
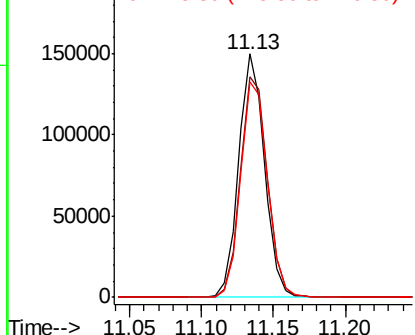
#62
4-Bromofluorobenzene
Concen: 46.126 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX010336.D
Acq: 18 Jun 2019 12:29

Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190617

Tot Ion: 95 Resp: 186807
Ion Ratio Lower Upper
95 100
174 94.6 0.0 160.4
176 91.9 0.0 154.6

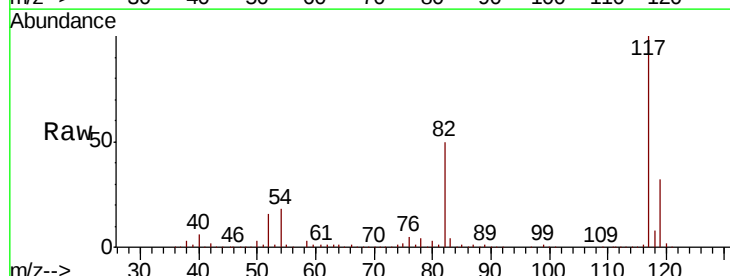


Abundance Ion 94.90 (94.60 to 95.60): VX0
Ion 173.80 (173.50 to 174.50): V
Ion 175.80 (175.50 to 176.50): V

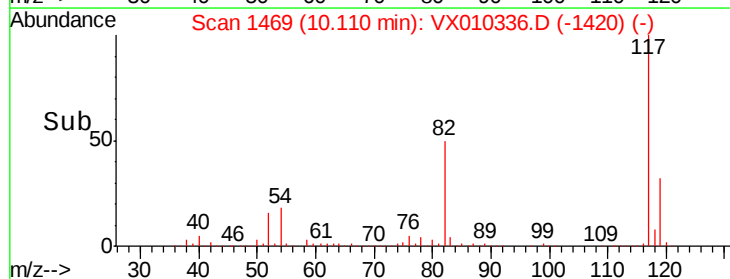
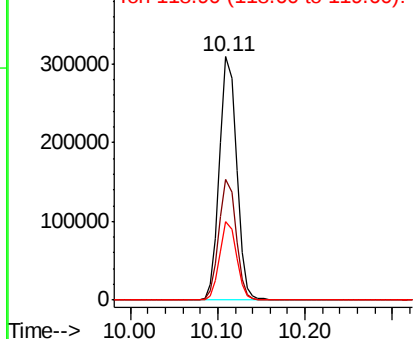


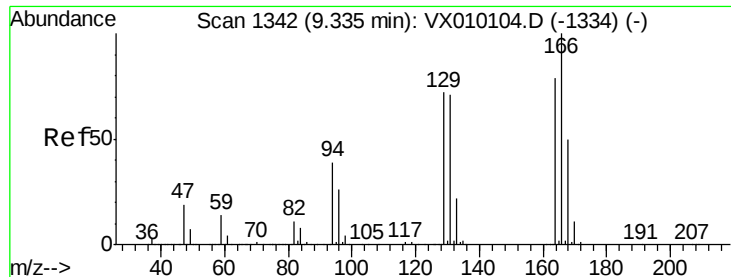
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX010336.D
Acq: 18 Jun 2019 12:29

Tgt Ion: 117 Resp: 419550
Ion Ratio Lower Upper
117 100
82 49.8 49.2 73.8
119 32.2 25.2 37.8



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

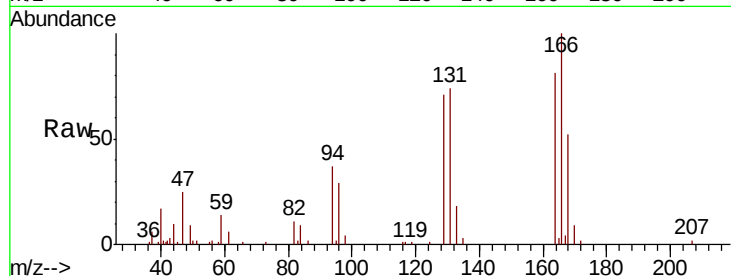




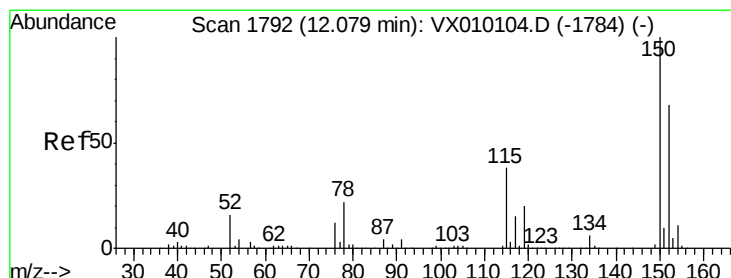
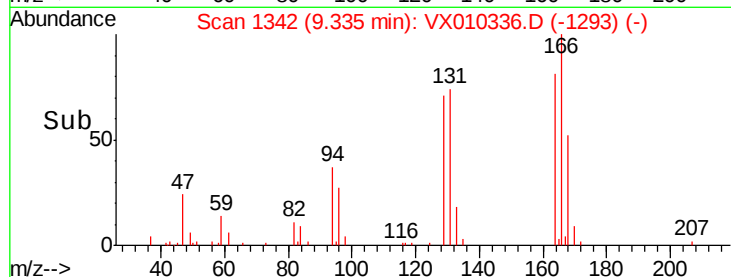
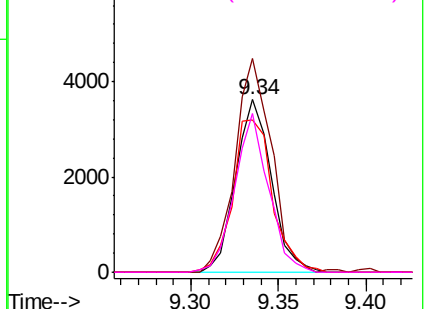
#64
Tetrachloroethene
Concen: 1.661 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX010336.D
Acq: 18 Jun 2019 12:29

Instrument :
MSVOA_X
ClientSampleId :
KY038PS027-190617

Tot Ion:164 Resp: 5176
Ion Ratio Lower Upper
164 100
166 124.0 105.0 157.4
129 88.2 75.1 112.7
131 92.0 72.2 108.4

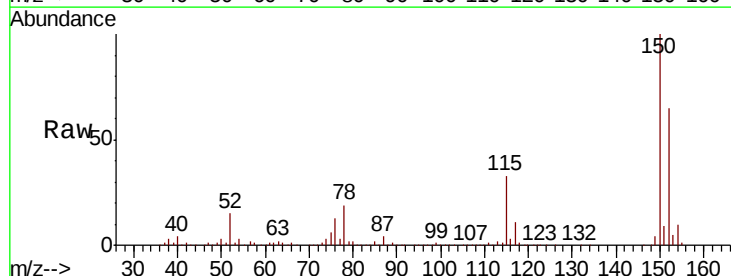


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

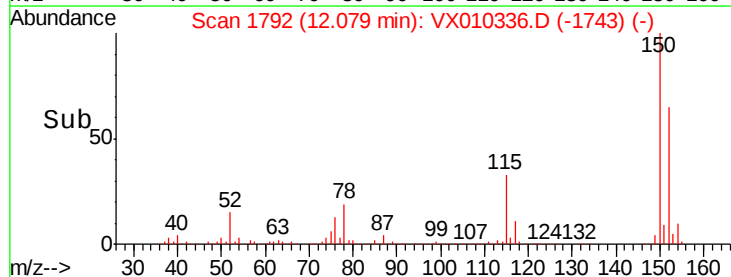
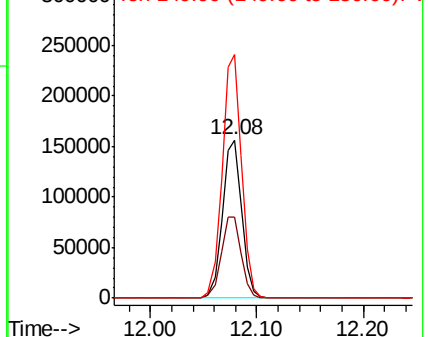


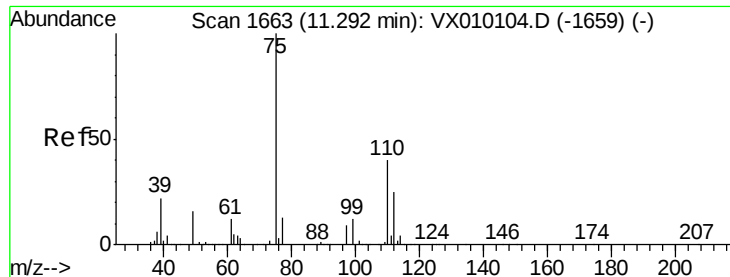
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX010336.D
Acq: 18 Jun 2019 12:29

Tgt Ion:152 Resp: 196912
Ion Ratio Lower Upper
152 100
115 53.3 41.4 124.2
150 154.3 0.0 345.2



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: 21.712 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

Instrument :

MSVOA_X

ClientSampleId :

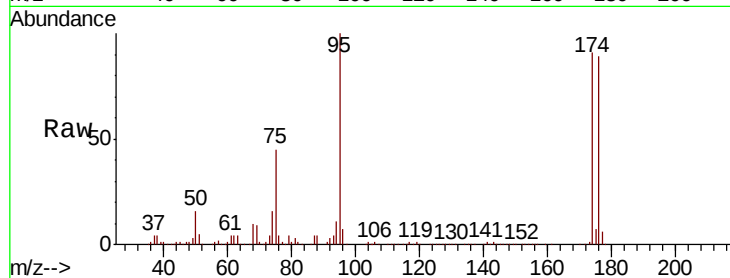
KY038PS027-190617

Tot Ion: 75 Resp: 85516

Ion Ratio Lower Upper

75 100

77 1.5 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

60000

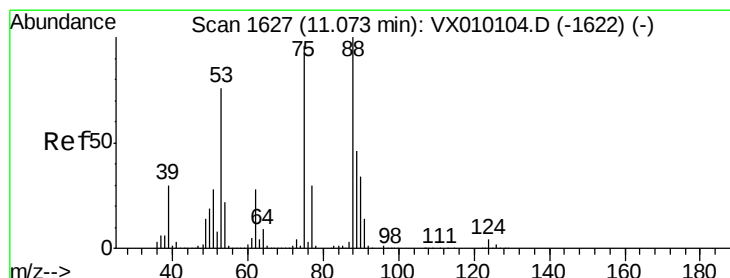
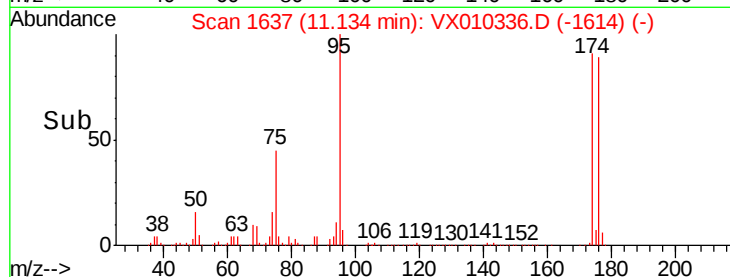
40000

20000

0

Time-->

11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 47.972 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

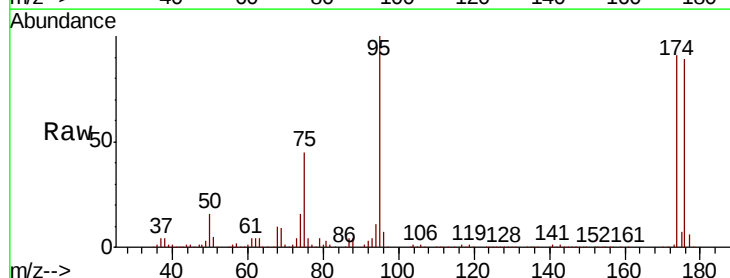
Tgt Ion: 75 Resp: 85516

Ion Ratio Lower Upper

75 100

53 0.0 79.8 119.6#

89 0.0 34.2 51.4#



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

11.13

80000

60000

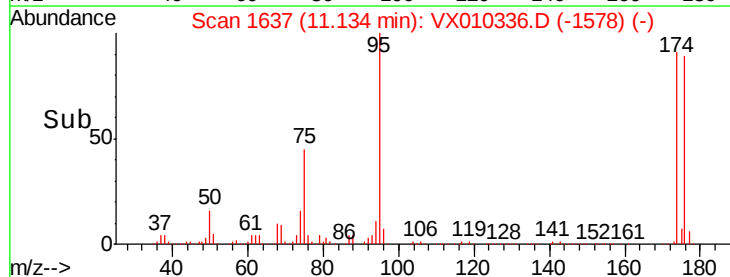
40000

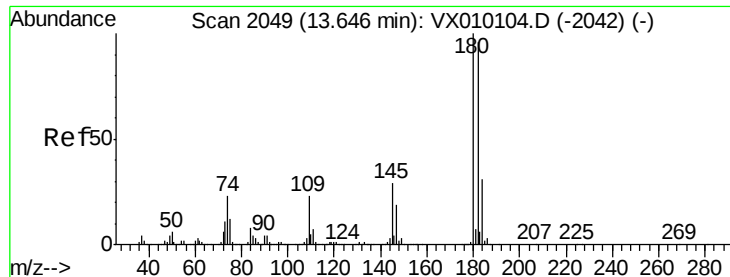
20000

0

Time-->

11.10 11.15 11.20

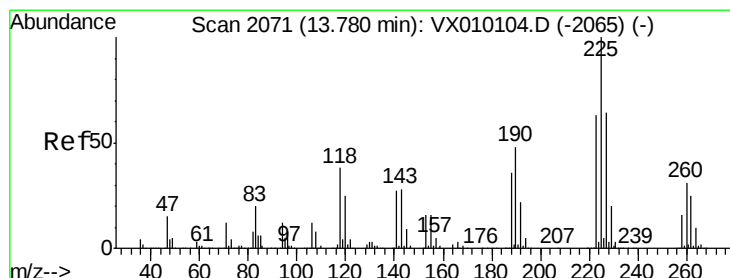
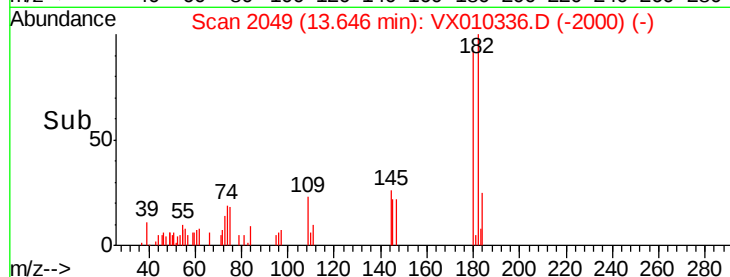
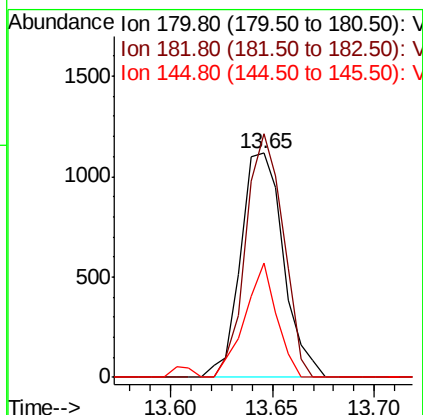
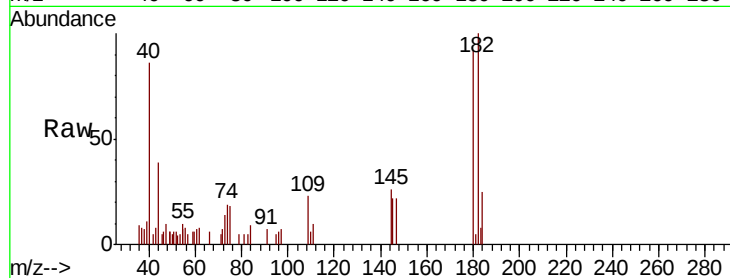




#93
 1,2,4-Trichlorobenzene
 Concen: 0.345 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX010336.D
 Acq: 18 Jun 2019 12:29

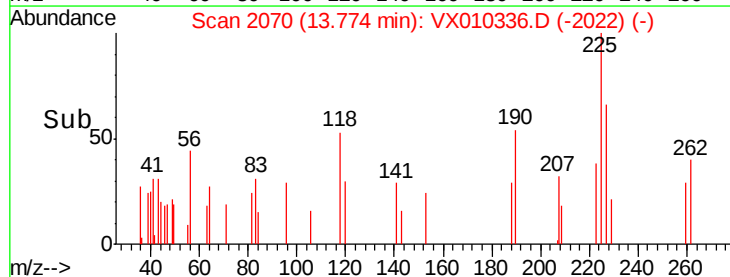
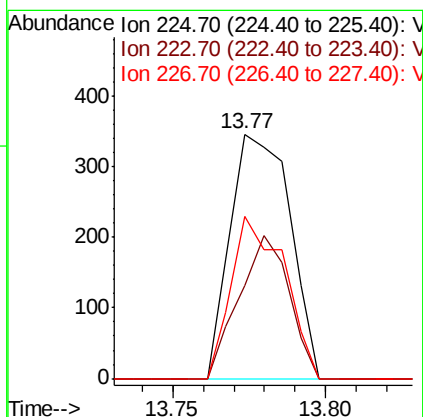
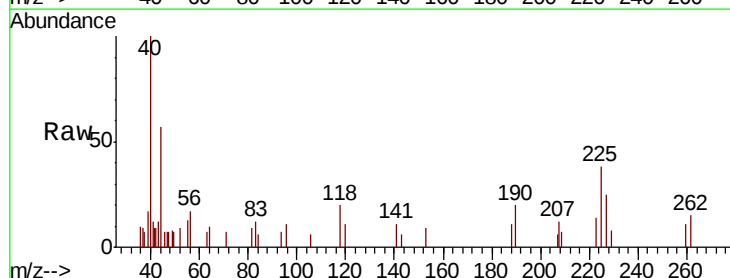
Instrument :
 MSVOA_X
 ClientSampleId :
 KY038PS027-190617

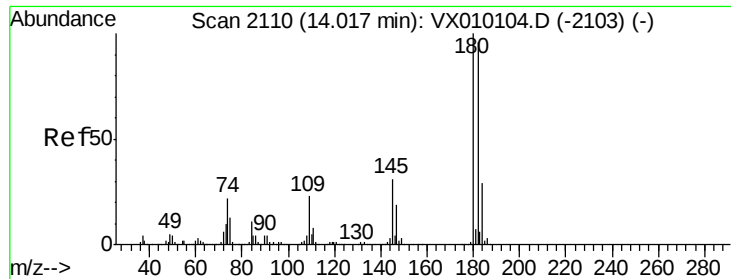
Tot Ion:180 Resp: 1636
 Ion Ratio Lower Upper
 180 100
 182 94.6 47.4 142.2
 145 38.0 14.5 43.5



#94
 Hexachlorobutadiene
 Concen: 0.222 ug/l
 RT: 13.77 min Scan# 2070
 Delta R.T. -0.01 min
 Lab File: VX010336.D
 Acq: 18 Jun 2019 12:29

Tgt Ion:225 Resp: 468
 Ion Ratio Lower Upper
 225 100
 223 49.1 31.3 93.8
 227 59.0 32.3 96.8





#96

1,2,3-Trichlorobenzene

Concen: 0.295 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VX010336.D

Acq: 18 Jun 2019 12:29

Instrument :

MSVOA_X

ClientSampleId :

KY038PS027-190617

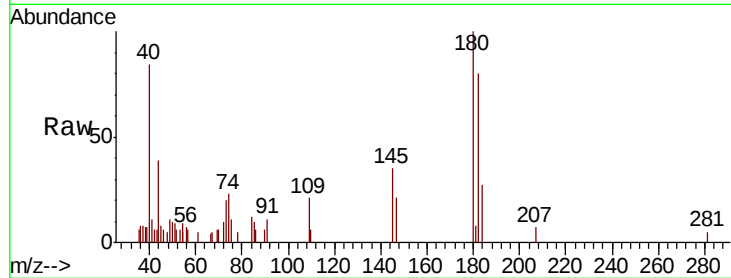
Tot Ion:180 Resp: 1382

Ion Ratio Lower Upper

180 100

182 95.4 47.3 142.0

145 32.6 15.6 46.7



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

