

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071719\
 Data File : VX010941.D
 Acq On : 17 Jul 2019 17:16
 Operator : JC/SP
 Sample : K3855-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP-0540-190716

Quant Time: Jul 18 02:31:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 17 06:57:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	208681	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	328668	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	302256	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	139111	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	109861	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
35) Dibromofluoromethane	5.50	113	103167	49.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.90%	
50) Toluene-d8	8.71	98	392231	50.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.26%	
62) 4-Bromofluorobenzene	11.13	95	134030	46.60	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.20%	

Target Compounds

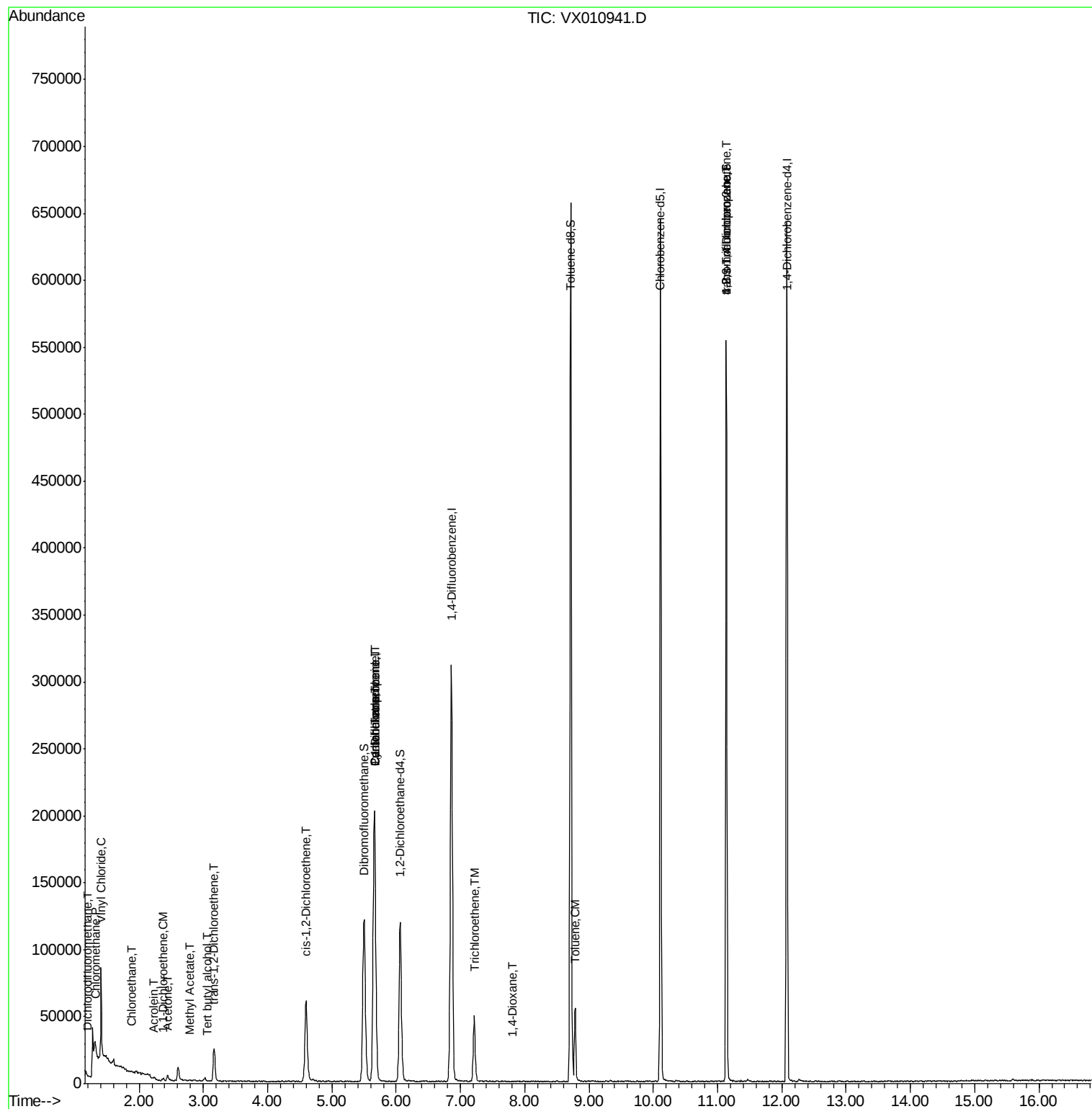
						Qvalue
2) Dichlorodifluoromethane	1.20	85	50	0.569	ug/l #	40
3) Chloromethane	1.32	50	1415	0.737	ug/l	92
4) Vinyl Chloride	1.41	62	42962	21.949	ug/l	99
6) Chloroethane	1.88	64	1022	0.822	ug/l #	56
11) Tert butyl alcohol	3.07	59	134	0.259	ug/l #	88
12) 1,1-Dichloroethene	2.37	96	788	0.424	ug/l #	68
13) Acrolein	2.23	56	106	0.355	ug/l #	1
16) Acetone	2.44	43	4689	4.676	ug/l	93
18) Methyl Acetate	2.79	43	568	0.249	ug/l #	48
21) trans-1,2-Dichloroethene	3.17	96	10270	5.207	ug/l	92
27) cis-1,2-Dichloroethene	4.60	96	40638	17.804	ug/l	88
31) Cyclohexane	5.67	56	3966	1.316	ug/l #	41
36) 1,1-Dichloropropene	5.66	75	13762	5.098	ug/l #	49
38) Carbon Tetrachloride	5.66	117	19471	6.921	ug/l #	17
44) Trichloroethene	7.21	130	18586	7.593	ug/l	80
49) 1,4-Dioxane	7.81	88	21	0.339	ug/l #	1
52) Toluene	8.79	92	20430	3.761	ug/l	97
76) 1,2,3-Trichloropropane	11.13	75	67357	26.832	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	67357	66.549	ug/l #	11

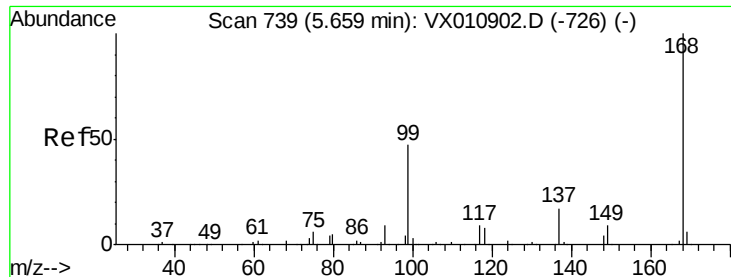
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 17 06:57:45 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

Instrument :

MSVOA_X

ClientSampleId :

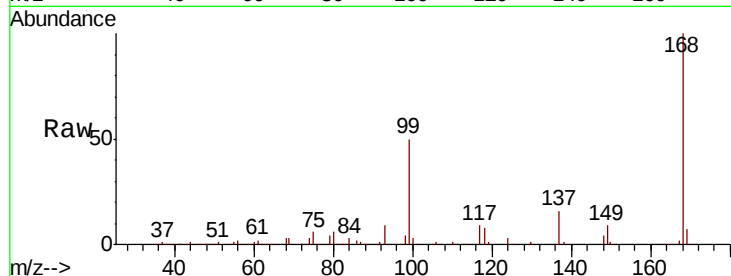
DUP-0540-190716

Tot Ion:168 Resp: 208681

Ion Ratio Lower Upper

168 100

99 50.5 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

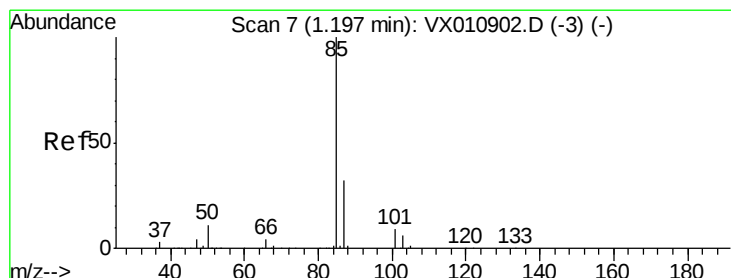
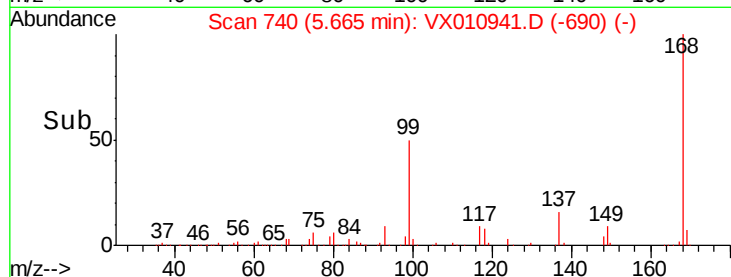
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.569 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX010941.D

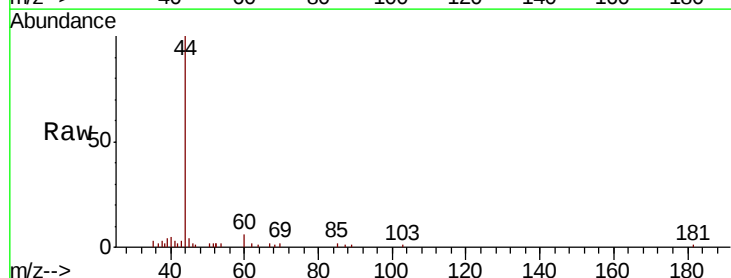
Acq: 17 Jul 2019 17:16

Tgt Ion: 85 Resp: 50

Ion Ratio Lower Upper

85 100

87 65.1 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

80

60

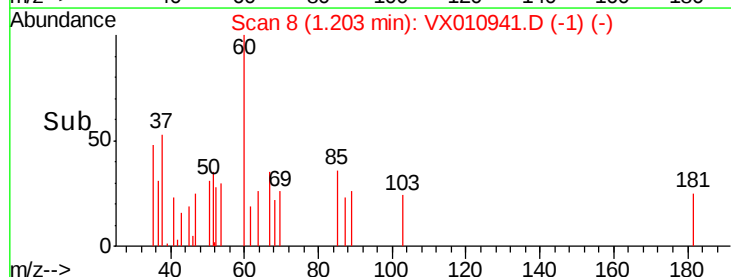
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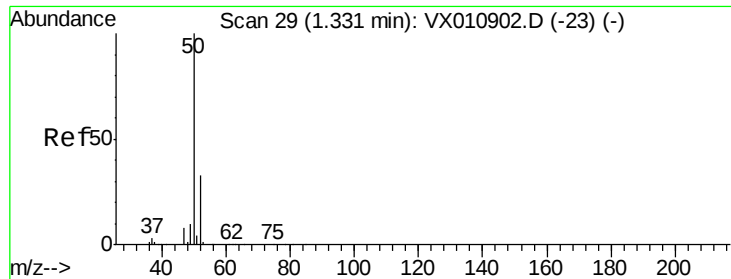
20

0

Time-->

1.18 1.20 1.22 1.24





#3

Chloromethane

Concen: 0.737 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

Instrument :

MSVOA_X

ClientSampleId :

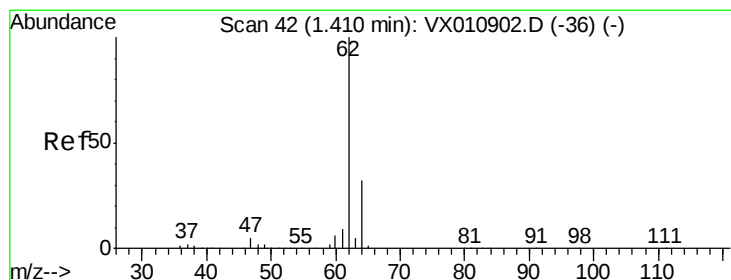
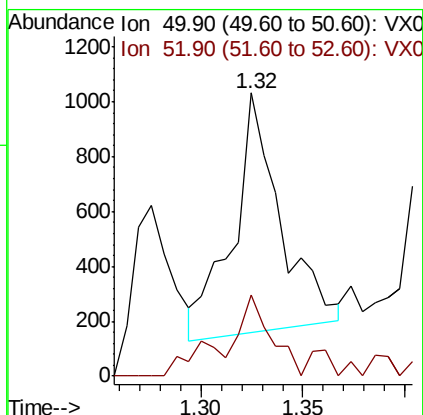
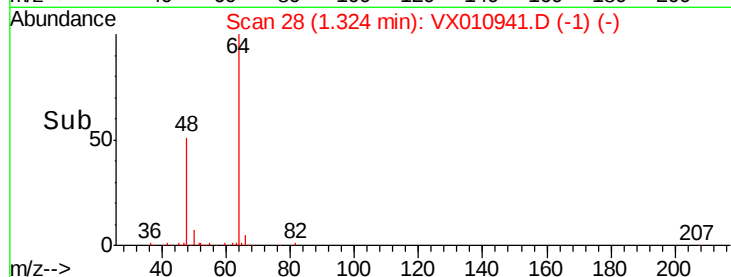
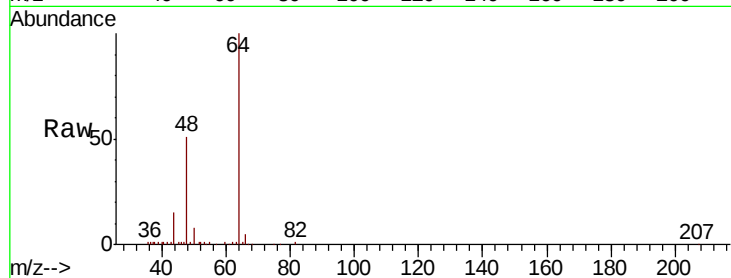
DUP-0540-190716

Tot Ion: 50 Resp: 1415

Ion Ratio Lower Upper

50 100

52 37.6 26.4 39.6



#4

Vinyl Chloride

Concen: 21.949 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX010941.D

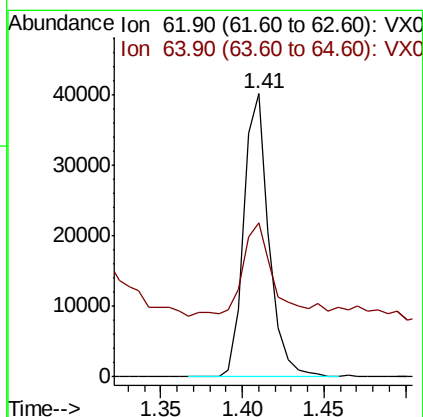
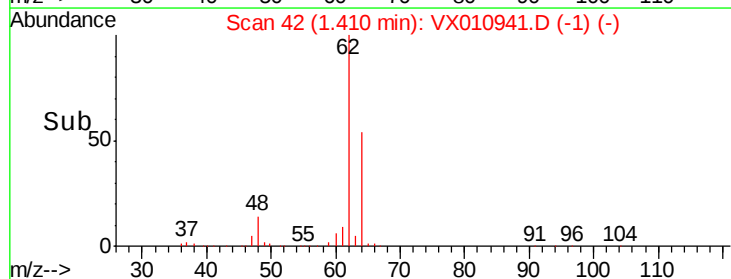
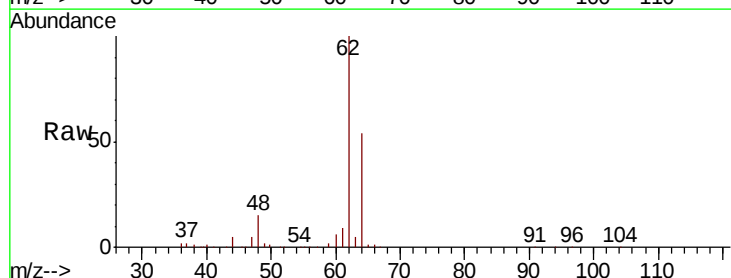
Acq: 17 Jul 2019 17:16

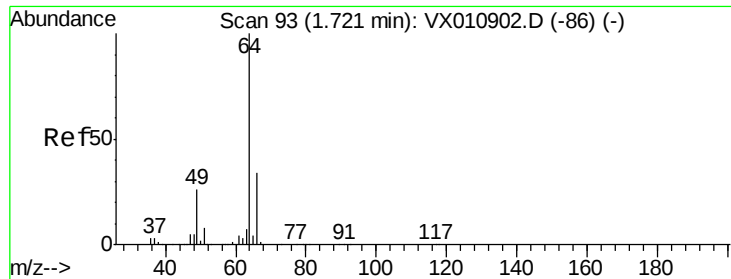
Tgt Ion: 62 Resp: 42962

Ion Ratio Lower Upper

62 100

64 32.7 25.7 38.5





#6

Chloroethane

Concen: 0.822 ug/l

RT: 1.88 min Scan# 119

Delta R.T. 0.16 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

Instrument :

MSVOA_X

ClientSampleId :

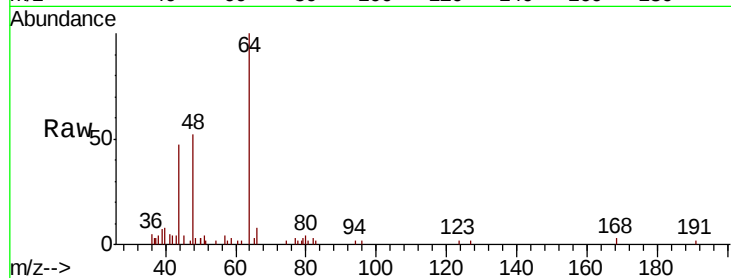
DUP-0540-190716

Tot Ion: 64 Resp: 1022

Ion Ratio Lower Upper

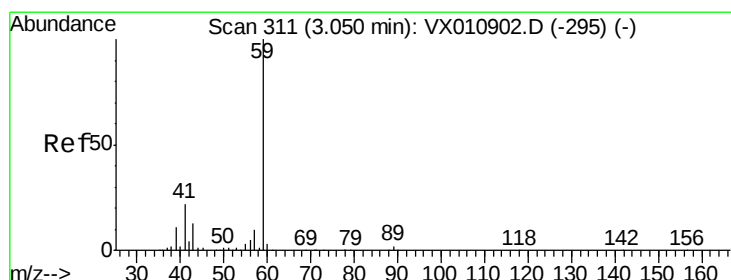
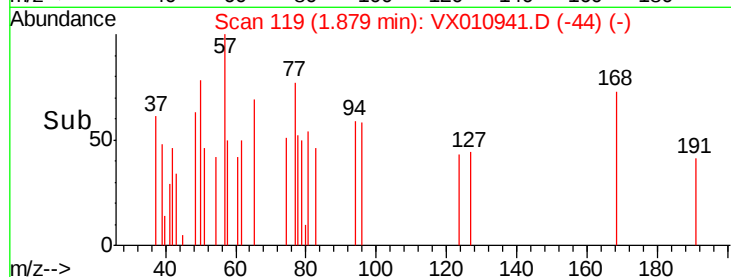
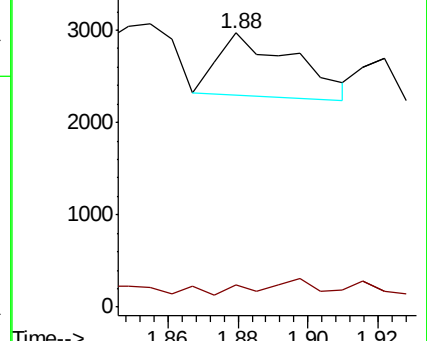
64 100

66 8.5 27.0 40.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



#11

Tert butyl alcohol

Concen: 0.259 ug/l

RT: 3.07 min Scan# 314

Delta R.T. 0.02 min

Lab File: VX010941.D

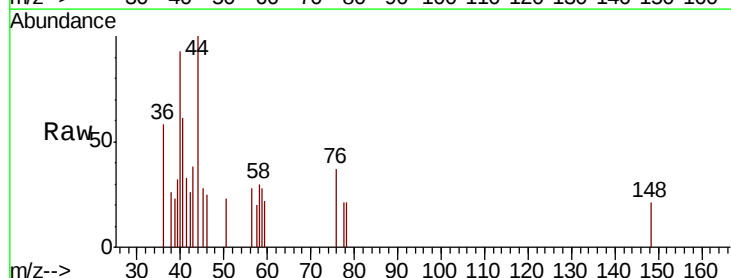
Acq: 17 Jul 2019 17:16

Tgt Ion: 59 Resp: 134

Ion Ratio Lower Upper

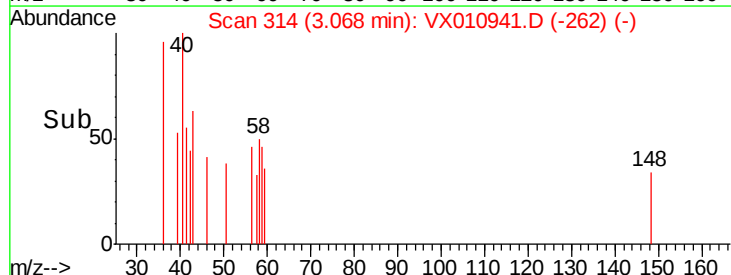
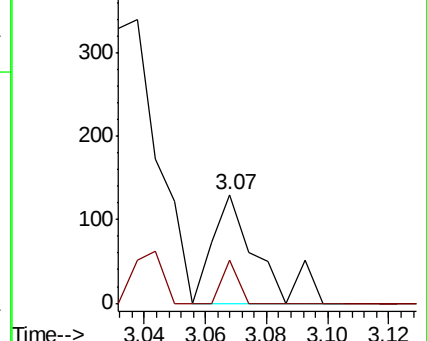
59 100

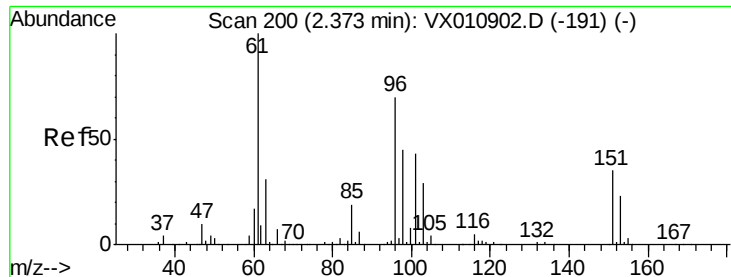
57 14.2 7.9 11.9#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.424 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.00 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

Instrument :

MSVOA_X

ClientSampleId :

DUP-0540-190716

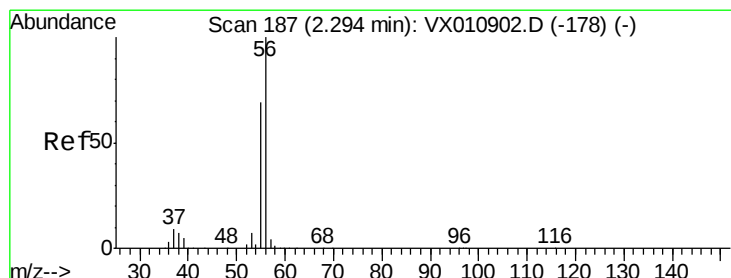
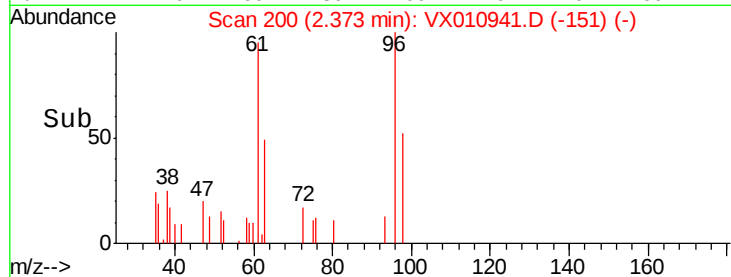
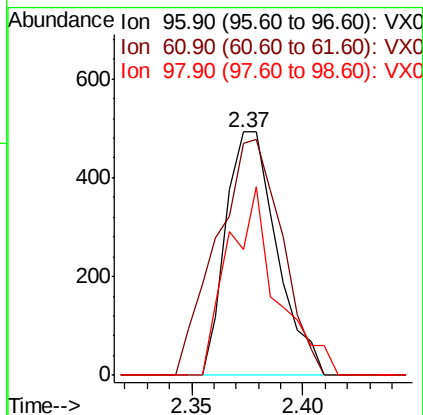
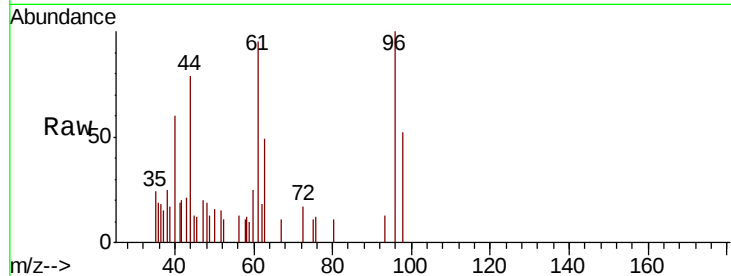
Tot Ion: 96 Resp: 788

Ion Ratio Lower Upper

96 100

61 95.3 115.0 172.4#

98 51.7 52.2 78.2#



#13

Acrolein

Concen: 0.355 ug/l

RT: 2.23 min Scan# 176

Delta R.T. -0.07 min

Lab File: VX010941.D

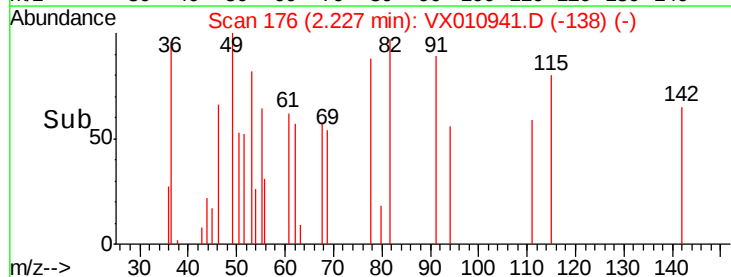
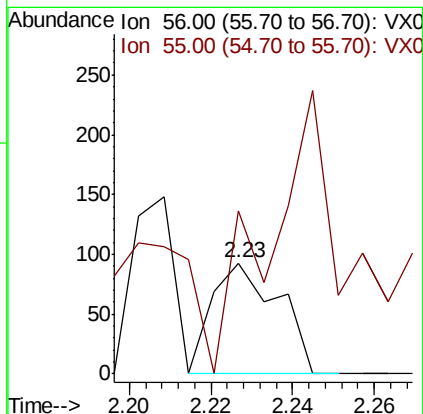
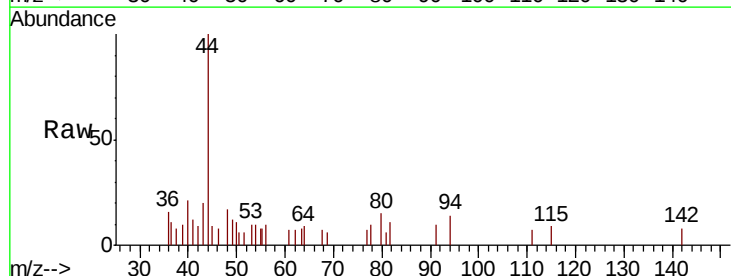
Acq: 17 Jul 2019 17:16

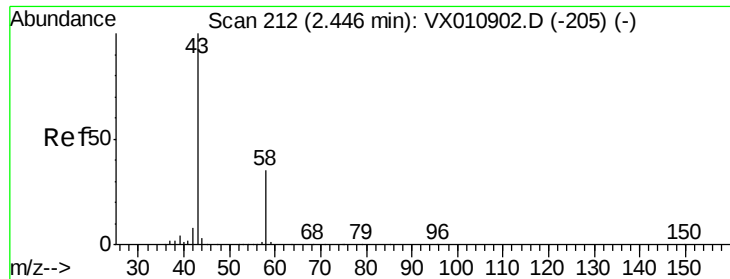
Tgt Ion: 56 Resp: 106

Ion Ratio Lower Upper

56 100

55 282.1 55.9 83.9#





#16

Acetone

Concen: 4.676 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

Instrument :

MSVOA_X

ClientSampleId :

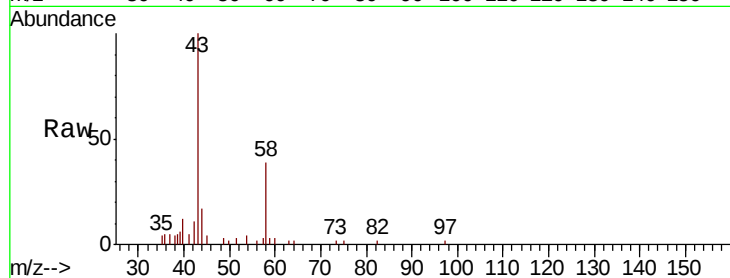
DUP-0540-190716

Tot Ion: 43 Resp: 4689

Ion Ratio Lower Upper

43 100

58 38.8 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

2500

2000

1500

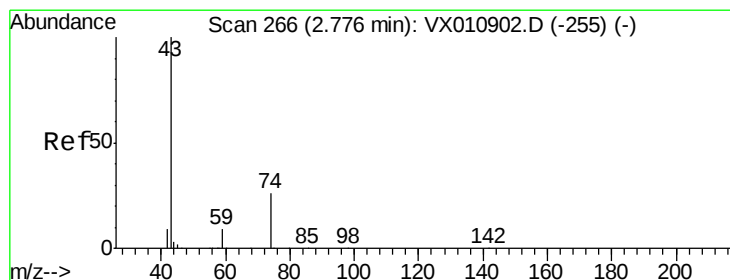
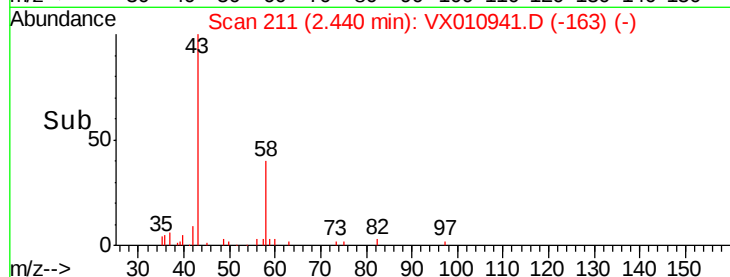
1000

500

0

Time-->

2.35 2.40 2.45 2.50 2.55



#18

Methyl Acetate

Concen: 0.249 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.01 min

Lab File: VX010941.D

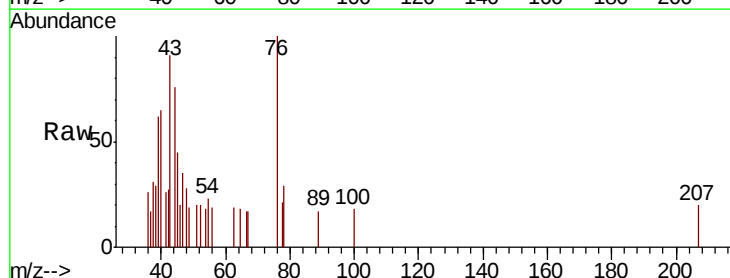
Acq: 17 Jul 2019 17:16

Tgt Ion: 43 Resp: 568

Ion Ratio Lower Upper

43 100

74 0.0 21.5 32.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

2.79

300

250

200

150

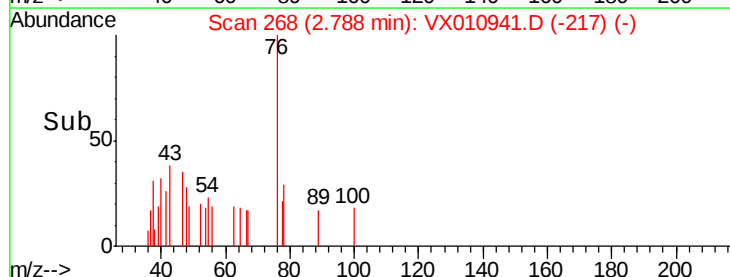
100

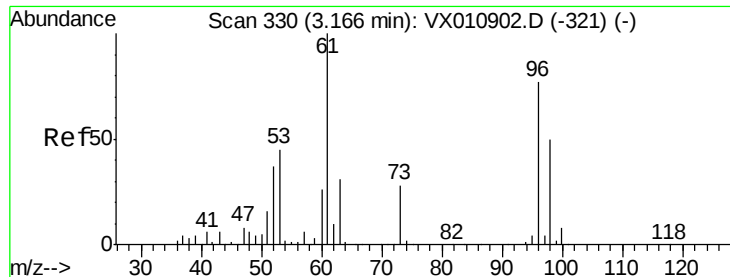
50

0

Time-->

2.75 2.80





#21

trans-1,2-Dichloroethene

Concen: 5.207 ug/l

RT: 3.17 min Scan# 331

Delta R.T. 0.01 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

Instrument :

MSVOA_X

ClientSampleId :

DUP-0540-190716

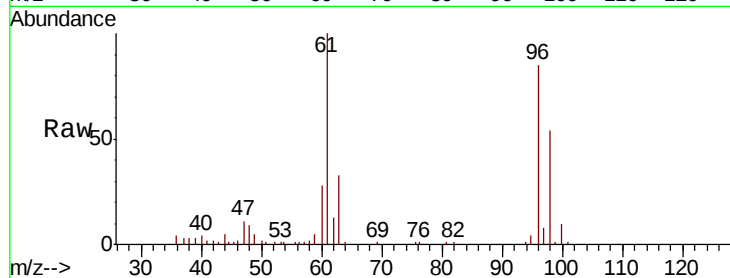
Tot Ion: 96 Resp: 10270

Ion Ratio Lower Upper

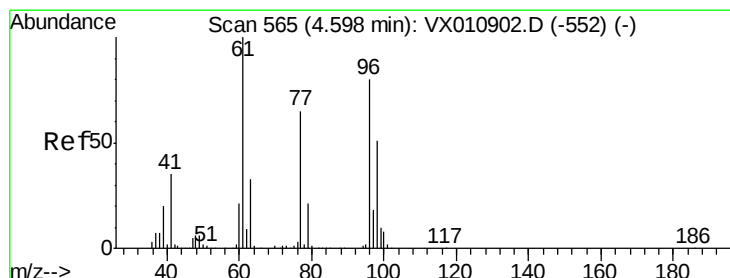
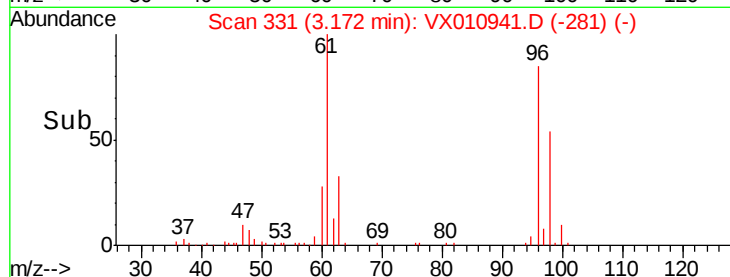
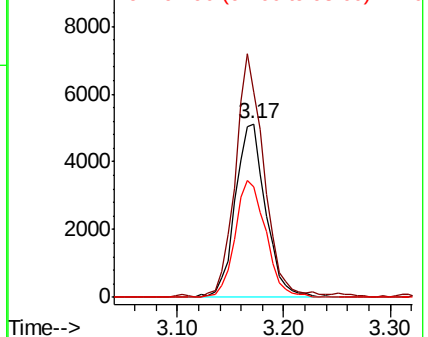
96 100

61 117.1 104.2 156.2

98 63.8 52.2 78.4



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



#27

cis-1,2-Dichloroethene

Concen: 17.804 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

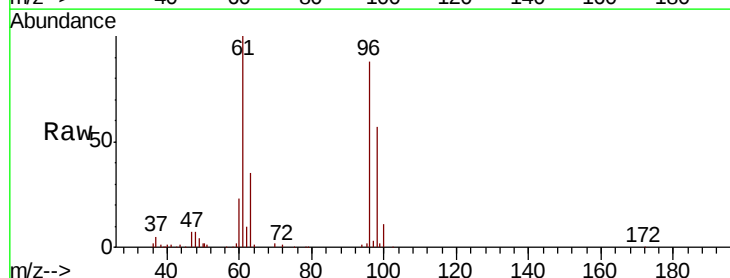
Tgt Ion: 96 Resp: 40638

Ion Ratio Lower Upper

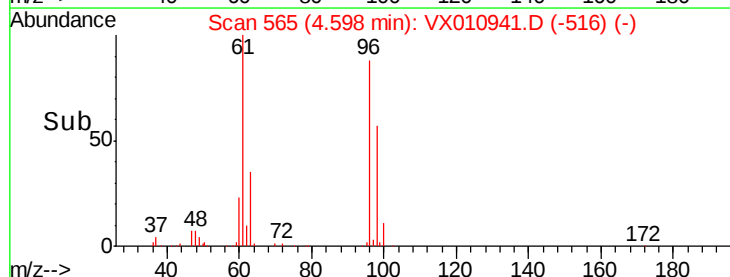
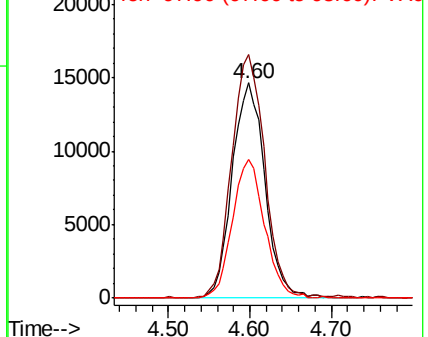
96 100

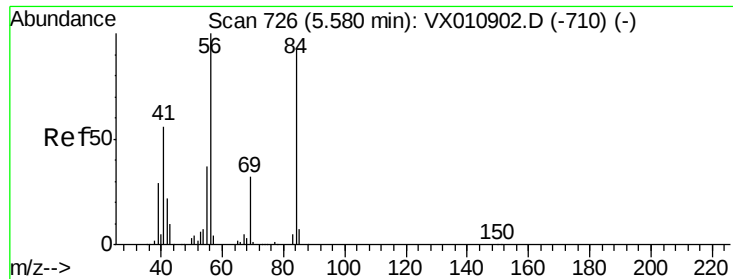
61 114.9 0.0 269.0

98 63.4 0.0 131.4



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

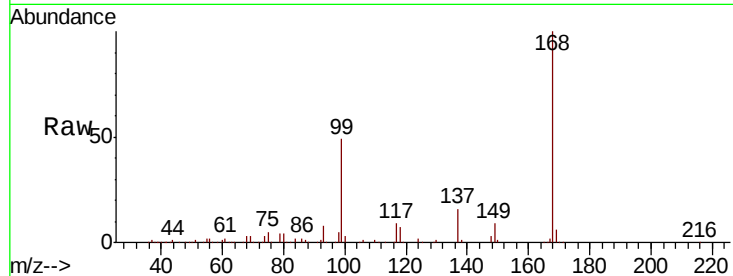




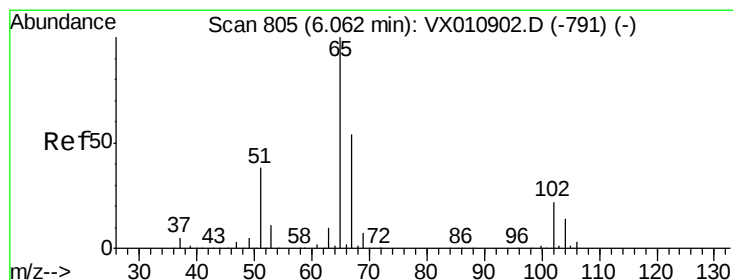
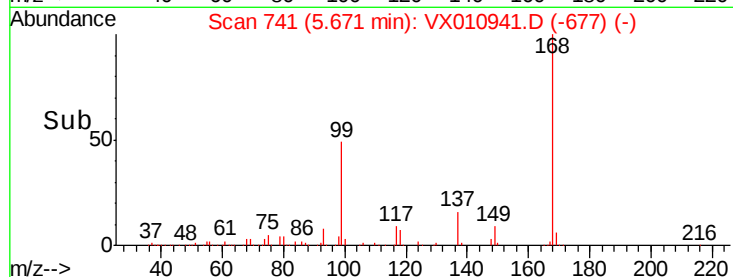
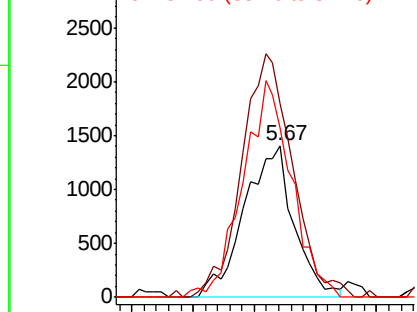
#31
Cyclohexane
Concen: 1.316 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.09 min
Lab File: VX010941.D
Acq: 17 Jul 2019 17:16

Instrument :
MSVOA_X
ClientSampleId :
DUP-0540-190716

Tot Ion: 56 Resp: 3966
Ion Ratio Lower Upper
56 100
69 127.8 25.8 38.8#
84 111.4 73.8 110.6#

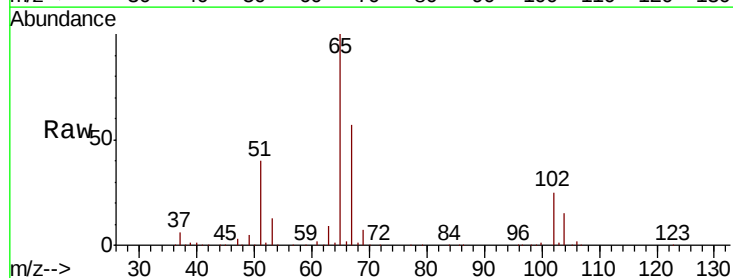


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

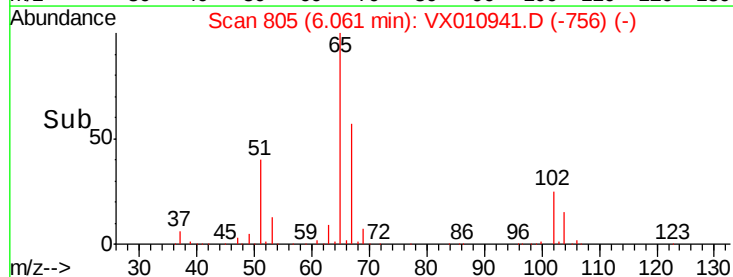
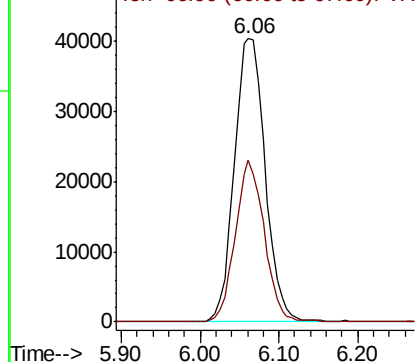


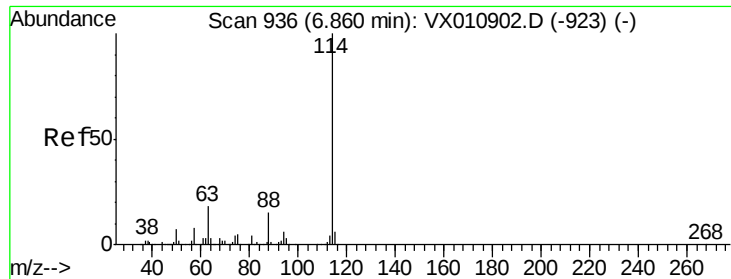
#33
1,2-Dichloroethane-d4
Concen: 49.486 ug/l
RT: 6.06 min Scan# 805
Delta R.T. -0.00 min
Lab File: VX010941.D
Acq: 17 Jul 2019 17:16

Tgt Ion: 65 Resp: 109861
Ion Ratio Lower Upper
65 100
67 53.9 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

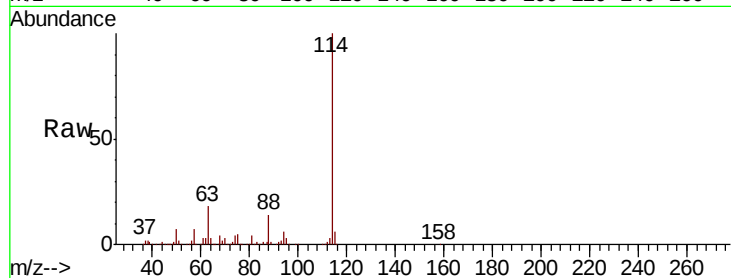




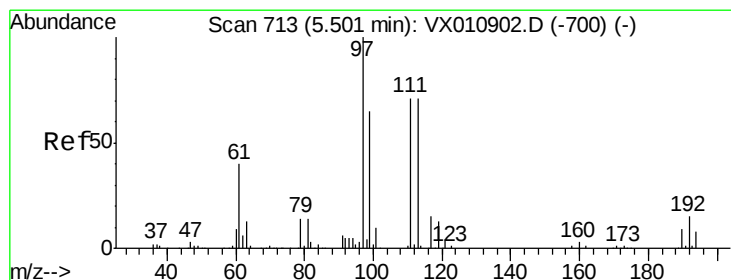
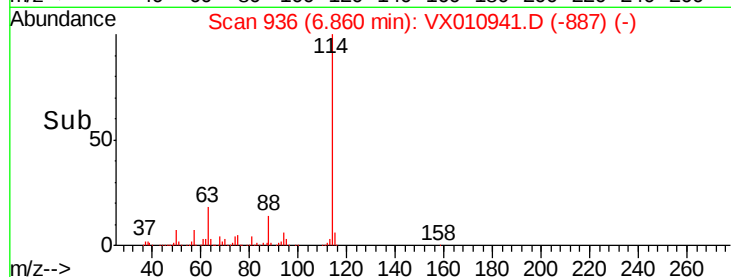
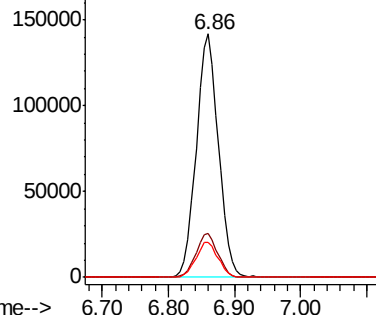
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.86 min Scan# 936
Delta R.T. -0.00 min
Lab File: VX010941.D
Acq: 17 Jul 2019 17:16

Instrument :
MSVOA_X
ClientSampleId :
DUP-0540-190716

Tot Ion	Ratio	Lower	Upper
114	100		
63	18.1	0.0	35.6
88	14.3	0.0	29.8

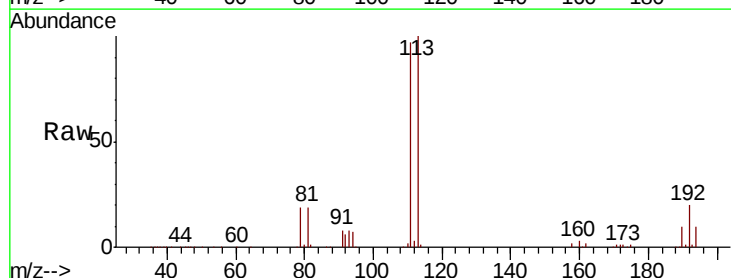


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VX0
Ion 87.90 (87.60 to 88.60): VX0

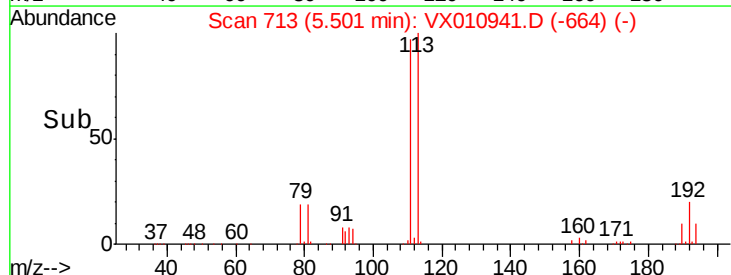
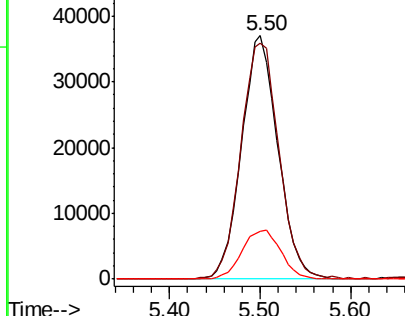


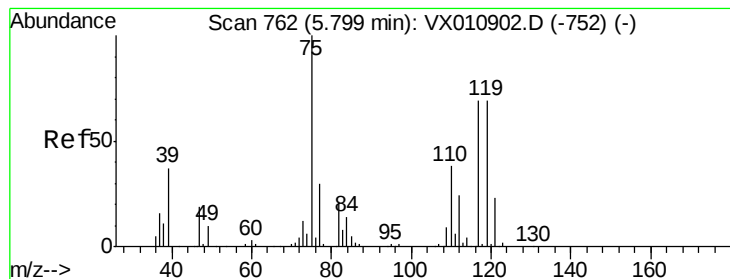
#35
Dibromofluoromethane
Concen: 49.454 ug/l
RT: 5.50 min Scan# 713
Delta R.T. -0.00 min
Lab File: VX010941.D
Acq: 17 Jul 2019 17:16

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.3	123.5
192	21.7	17.4	26.2



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: 5.098 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

Instrument :

MSVOA_X

ClientSampleId :

DUP-0540-190716

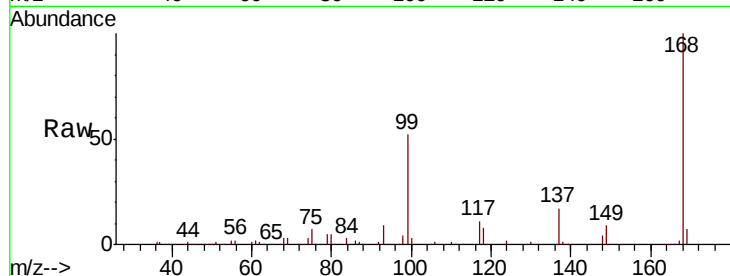
Tot Ion: 75 Resp: 13762

Ion Ratio Lower Upper

75 100

110 10.2 19.9 59.7#

77 0.5 25.0 37.4#



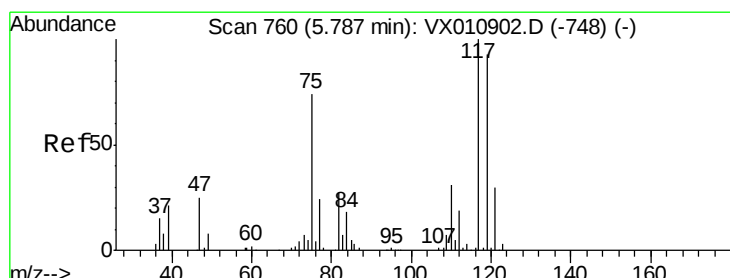
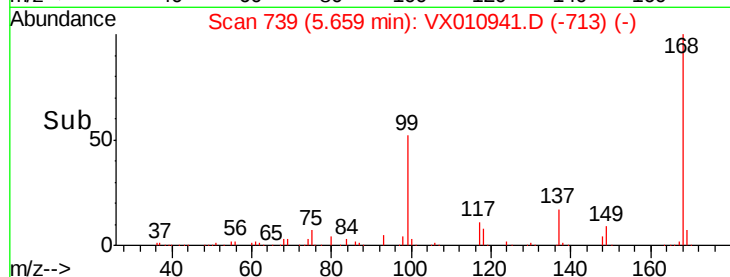
Abundance Ion 74.90 (74.60 to 75.60): VX010902.D (-752) (-)

Ion 109.90 (109.60 to 110.60): VX010902.D (-752) (-)

Ion 76.90 (76.60 to 77.60): VX010902.D (-752) (-)

5.66

Time-->



#38

Carbon Tetrachloride

Concen: 6.921 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

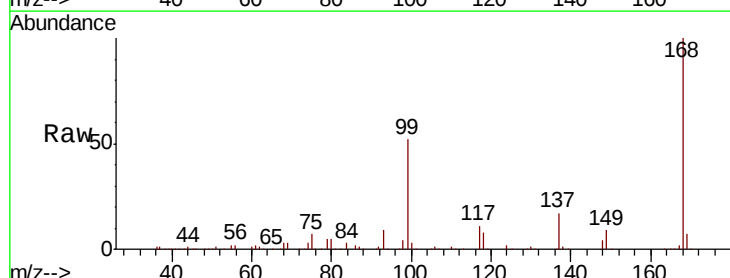
Tgt Ion: 117 Resp: 19471

Ion Ratio Lower Upper

117 100

119 4.3 74.2 111.2#

121 0.0 24.2 36.2#



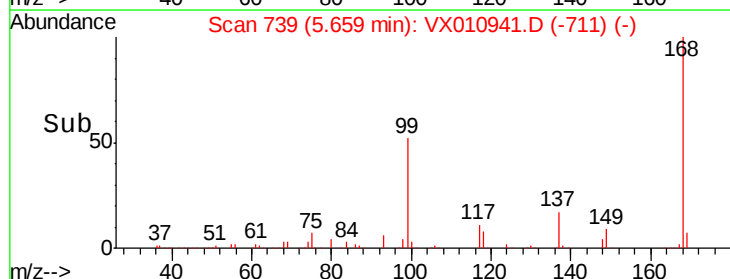
Abundance Ion 116.80 (116.50 to 117.50): VX010902.D (-748) (-)

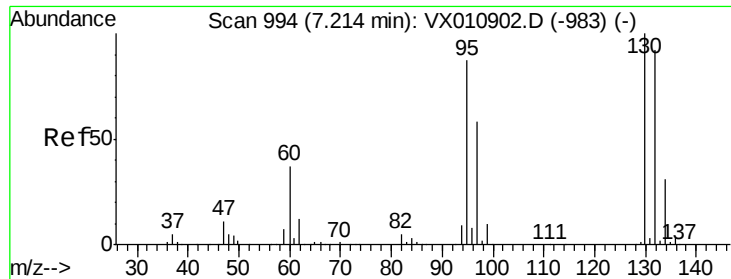
Ion 118.80 (118.50 to 119.50): VX010902.D (-748) (-)

Ion 120.80 (120.50 to 121.50): VX010902.D (-748) (-)

5.66

Time-->





#44

Trichloroethene

Concen: 7.593 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

Instrument :

MSVOA_X

ClientSampleId :

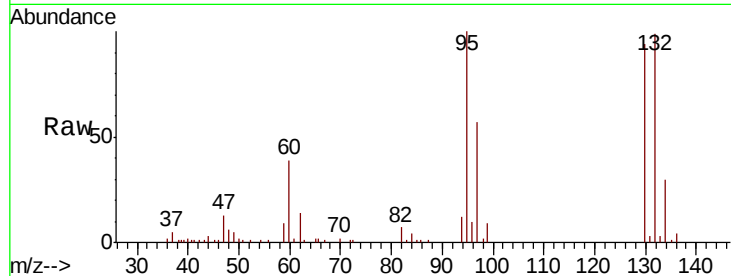
DUP-0540-190716

Tot Ion:130 Resp: 18586

Ion Ratio Lower Upper

130 100

95 106.3 0.0 174.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

10000

8000

6000

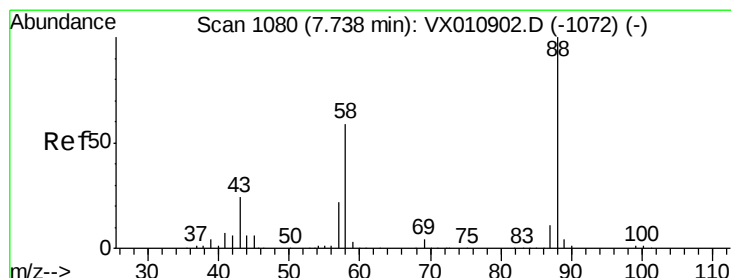
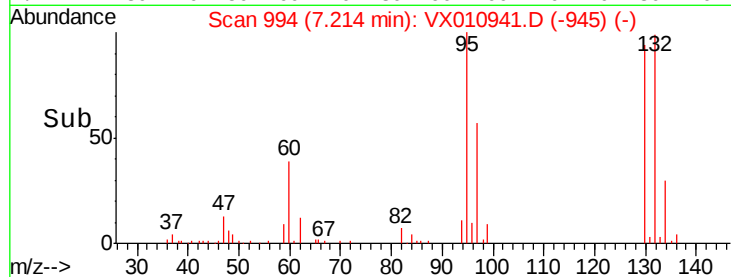
4000

2000

0

Time-->

7.10 7.15 7.20 7.25 7.30



#49

1,4-Dioxane

Concen: 0.339 ug/l

RT: 7.81 min Scan# 1092

Delta R.T. 0.07 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

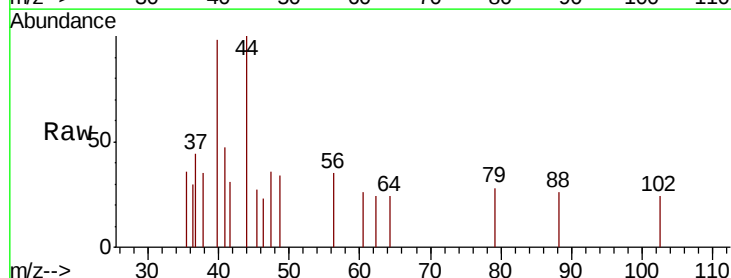
Tgt Ion: 88 Resp: 21

Ion Ratio Lower Upper

88 100

43 552.4 22.9 34.3#

58 790.5 49.8 74.8#



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

150

100

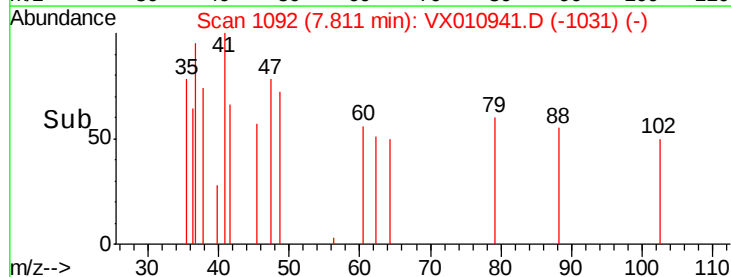
75

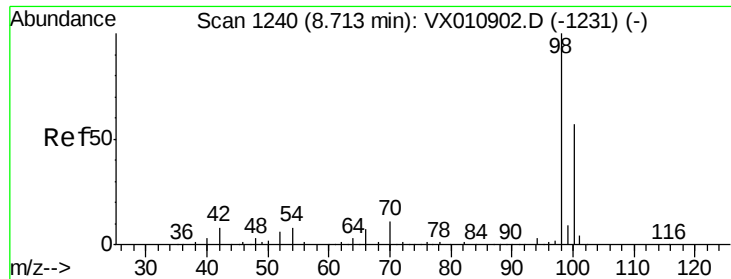
50

0

Time-->

7.79 7.80 7.81 7.82 7.83

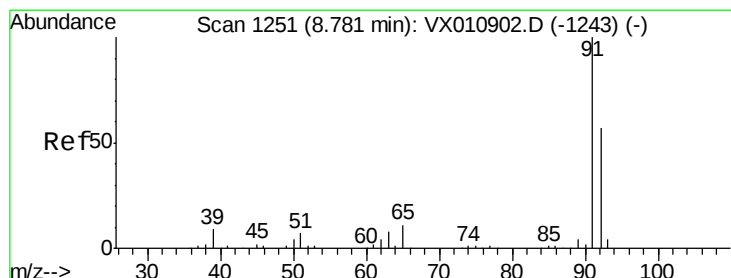
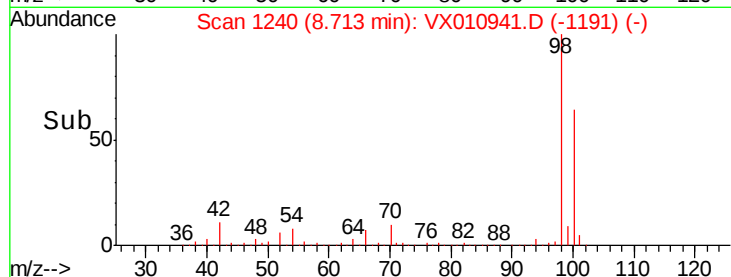
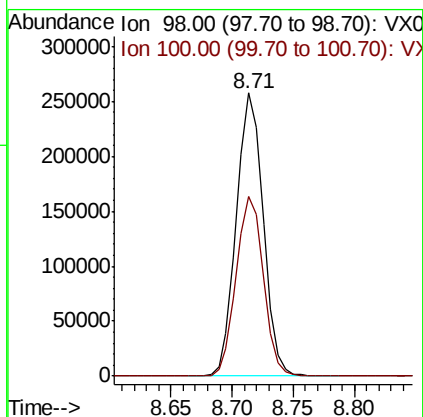
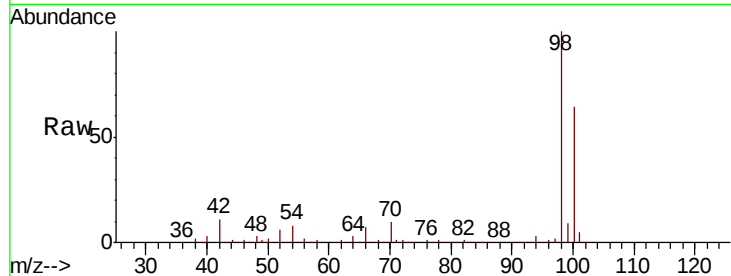




#50
Toluene-d8
Concen: 50.130 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX010941.D
Acq: 17 Jul 2019 17:16

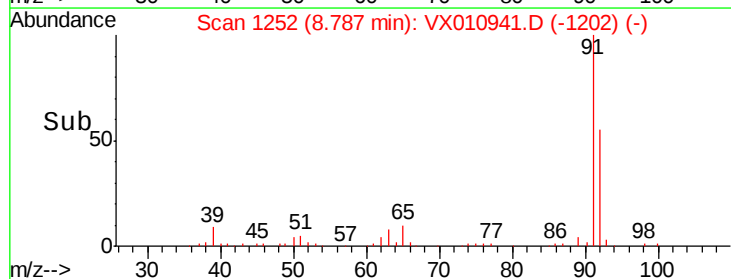
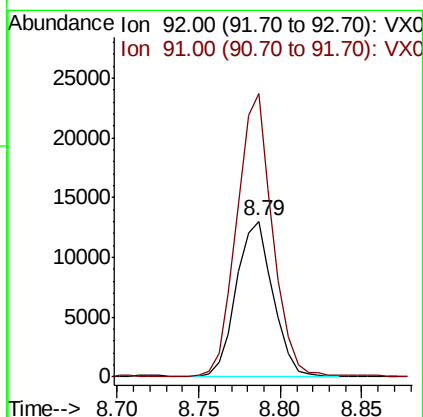
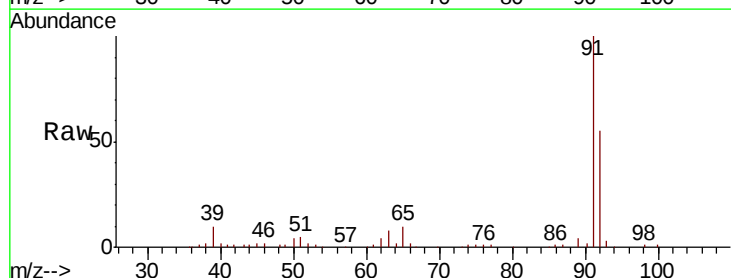
Instrument :
MSVOA_X
ClientSampleId :
DUP-0540-190716

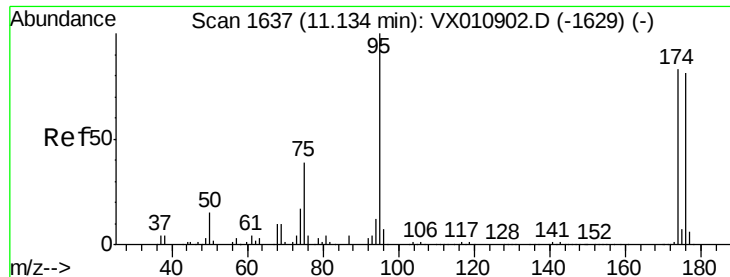
Tot Ion: 98 Resp: 392231
Ion Ratio Lower Upper
98 100
100 64.2 50.6 75.8



#52
Toluene
Concen: 3.761 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. 0.01 min
Lab File: VX010941.D
Acq: 17 Jul 2019 17:16

Tgt Ion: 92 Resp: 20430
Ion Ratio Lower Upper
92 100
91 178.0 139.4 209.0





#62

4-Bromofluorobenzene

Concen: 46.603 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

Instrument :

MSVOA_X

ClientSampleId :

DUP-0540-190716

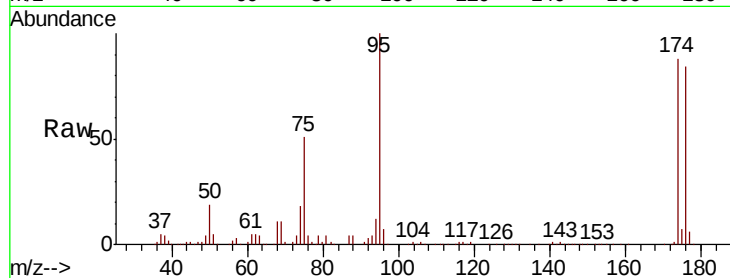
Tot Ion: 95 Resp: 134030

Ion Ratio Lower Upper

95 100

174 91.6 0.0 180.6

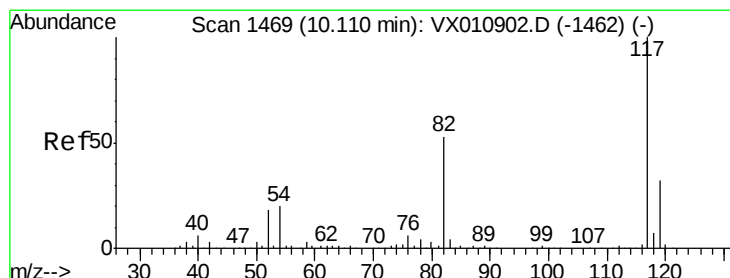
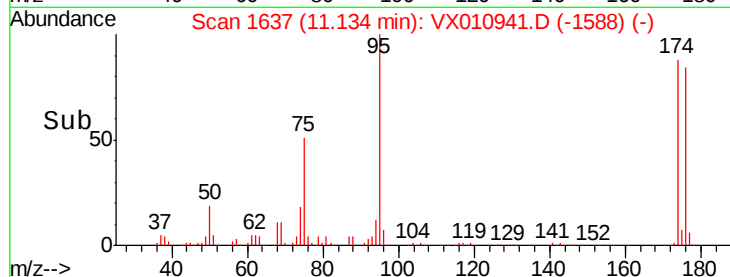
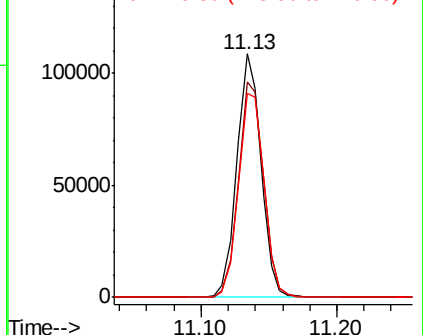
176 88.7 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX010902.D (-1629) (-)

Ion 173.80 (173.50 to 174.50): VX010902.D (-1629) (-)

Ion 175.80 (175.50 to 176.50): VX010902.D (-1629) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

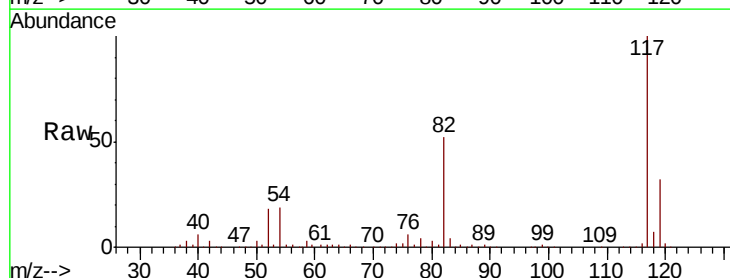
Tgt Ion: 117 Resp: 302256

Ion Ratio Lower Upper

117 100

82 52.1 42.6 63.8

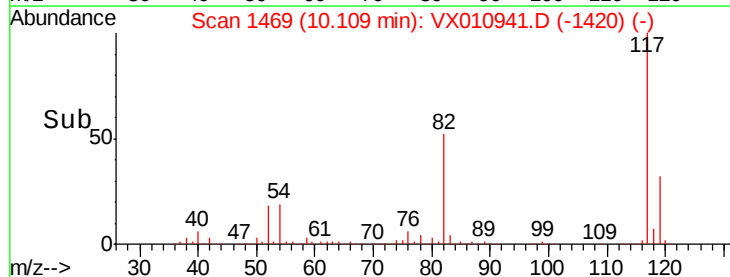
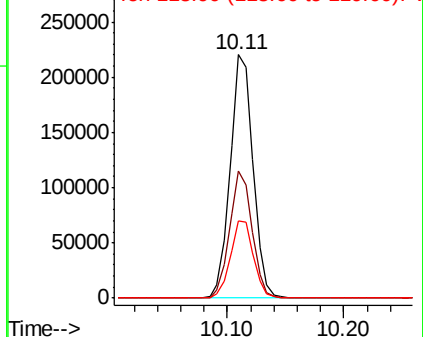
119 31.9 25.9 38.9

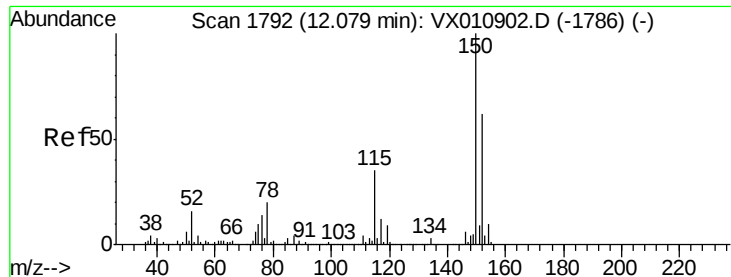


Abundance Ion 116.90 (116.60 to 117.60): VX010902.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX010902.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX010902.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

Instrument :

MSVOA_X

ClientSampleId :

DUP-0540-190716

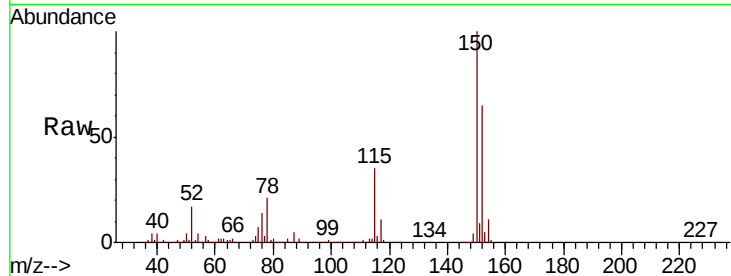
Tot Ion:152 Resp: 139111

Ion Ratio Lower Upper

152 100

115 55.2 39.7 119.1

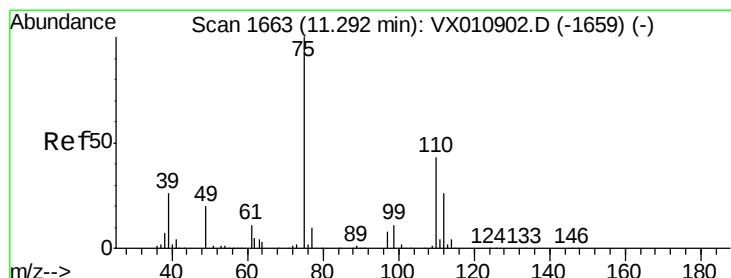
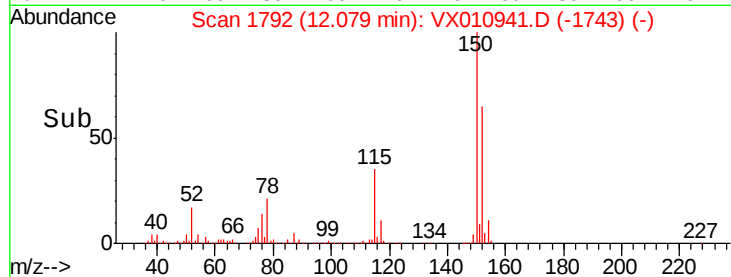
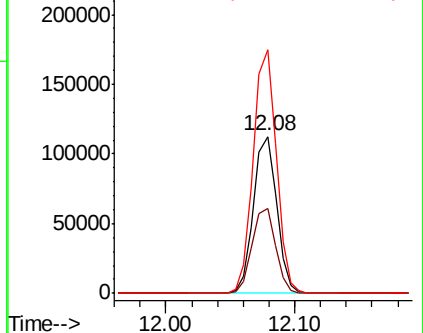
150 154.8 0.0 345.6



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: 26.832 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010941.D

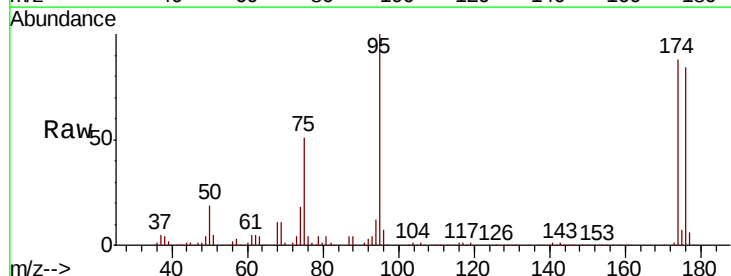
Acq: 17 Jul 2019 17:16

Tgt Ion: 75 Resp: 67357

Ion Ratio Lower Upper

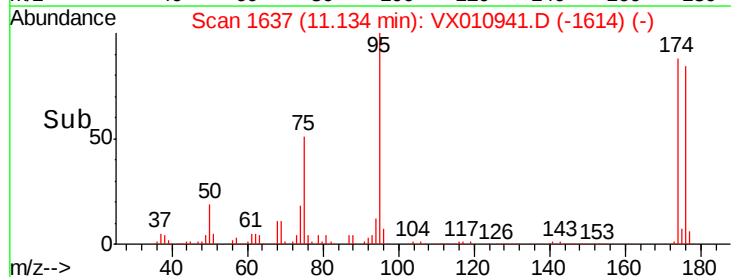
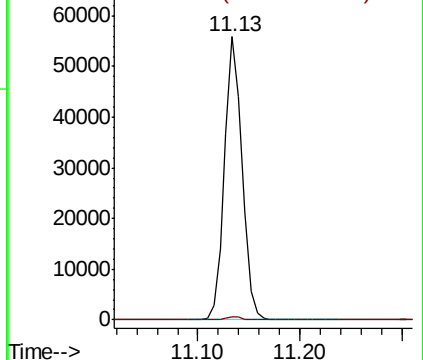
75 100

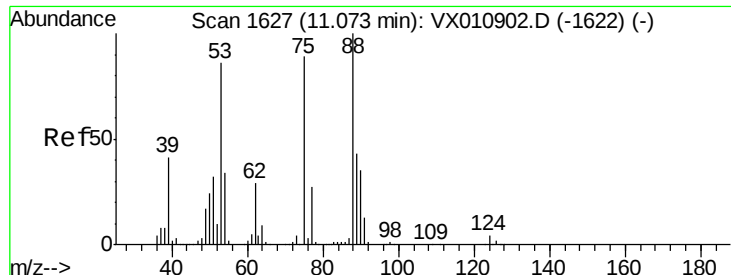
77 1.1 21.3 64.0#



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: 66.549 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX010941.D

Acq: 17 Jul 2019 17:16

Instrument :

MSVOA_X

ClientSampleId :

DUP-0540-190716

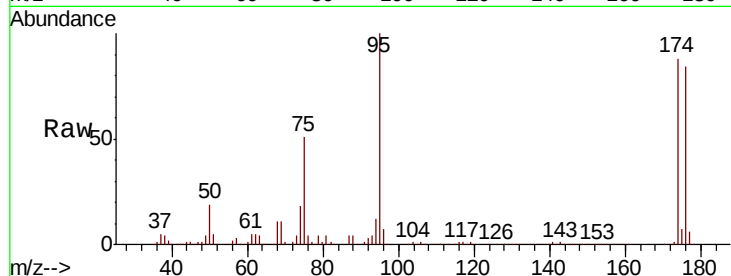
Tot Ion: 75 Resp: 67357

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.0 38.5 57.7#



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

