

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX052419\
 Data File : VX009896.D
 Acq On : 24 May 2019 18:54
 Operator : JC/SP
 Sample : K3038-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW035-190522

Quant Time: May 25 00:16:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X042919W.M
 Quant Title : SW846 8260
 QLast Update : Thu May 09 07:31:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	171055	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	277042	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	251234	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	111539	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	119830	51.32	ug/l	0.00
Spiked Amount			Recovery	=	102.64%	
35) Dibromofluoromethane	5.50	113	85934	49.34	ug/l	0.00
Spiked Amount			Recovery	=	98.68%	
50) Toluene-d8	8.71	98	354891	50.47	ug/l	0.00
Spiked Amount			Recovery	=	100.94%	
62) 4-Bromofluorobenzene	11.13	95	120321	47.09	ug/l	0.00
Spiked Amount			Recovery	=	94.18%	

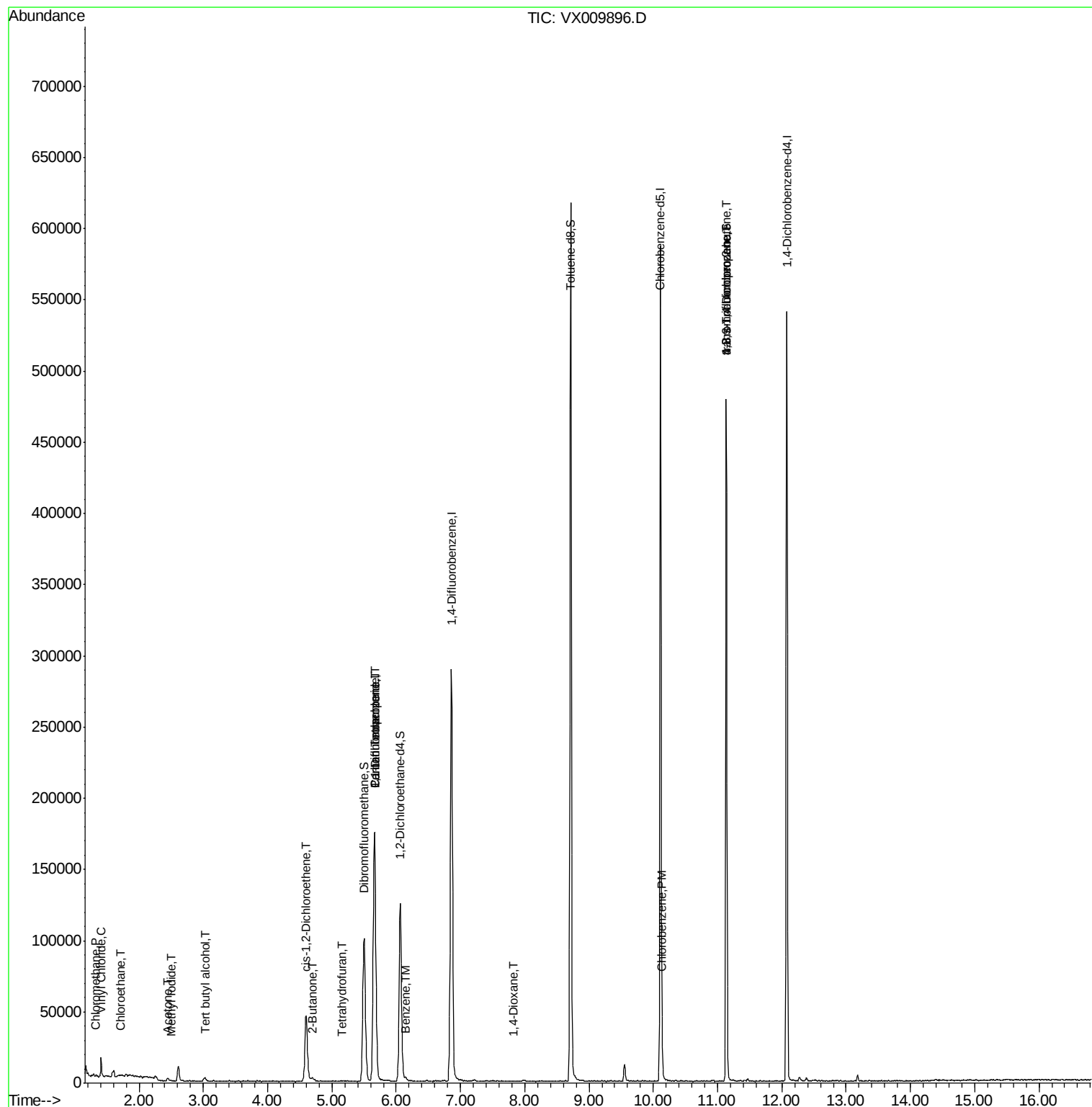
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	1039	0.483	ug/l #	77
4) Vinyl Chloride	1.41	62	8828	4.207	ug/l	96
6) Chloroethane	1.71	64	422	0.313	ug/l #	43
10) Methyl Iodide	2.51	142	47	4.617	ug/l #	42
11) Tert butyl alcohol	3.03	59	1706	3.156	ug/l #	84
16) Acetone	2.44	43	2709	2.161	ug/l	94
25) 2-Butanone	4.71	43	876	0.450	ug/l #	53
27) cis-1,2-Dichloroethene	4.60	96	28943	13.931	ug/l	92
28) Bromochloromethane	5.03	49	19	Below Cal	#	20
29) Tetrahydrofuran	5.16	42	392	0.313	ug/l #	42
36) 1,1-Dichloropropene	5.67	75	13932	5.411	ug/l #	51
38) Carbon Tetrachloride	5.66	117	16290	6.964	ug/l #	16
40) Benzene	6.15	78	1987	0.249	ug/l #	88
49) 1,4-Dioxane	7.82	88	22	0.381	ug/l #	1
65) Chlorobenzene	10.14	112	5636	1.121	ug/l	99
76) 1,2,3-Trichloropropane	11.13	75	62781	24.265	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	62781	62.086	ug/l #	10

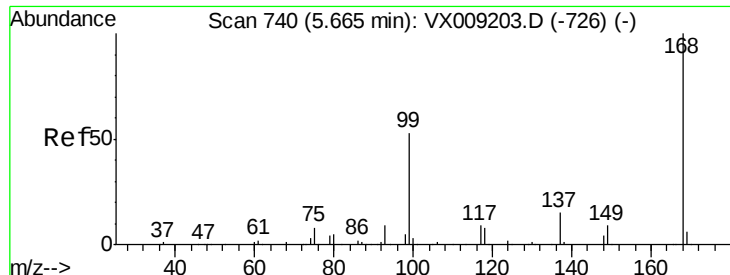
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX009896.D

Acq: 24 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

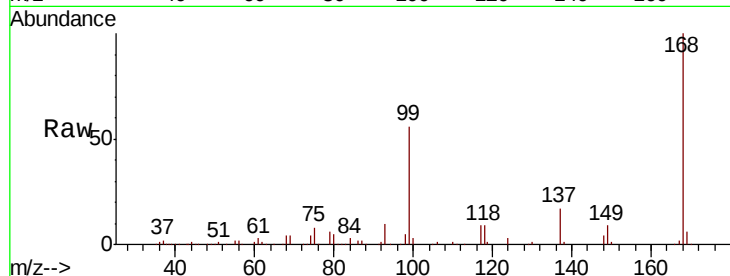
LF012RW035-190522

Tot Ion:168 Resp: 171055

Ion Ratio Lower Upper

168 100

99 56.0 42.3 63.5



Abundance Ion 167.90 (167.60 to 168.60): VX009203.D (-726) (-)

Ion 98.90 (98.60 to 99.60): VX009203.D (-726) (-)

5.67

60000

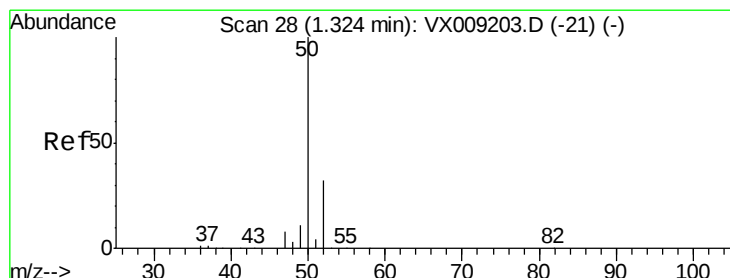
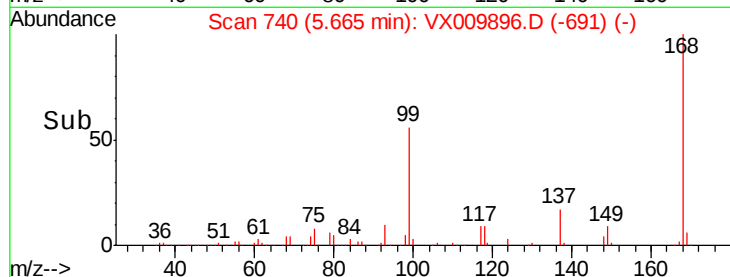
40000

20000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.483 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX009896.D

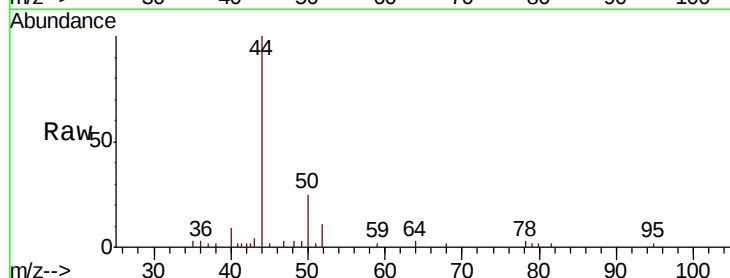
Acq: 24 May 2019 18:54

Tgt Ion: 50 Resp: 1039

Ion Ratio Lower Upper

50 100

52 45.4 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VX009203.D (-21) (-)

Ion 51.90 (51.60 to 52.60): VX009203.D (-21) (-)

1.33

800

600

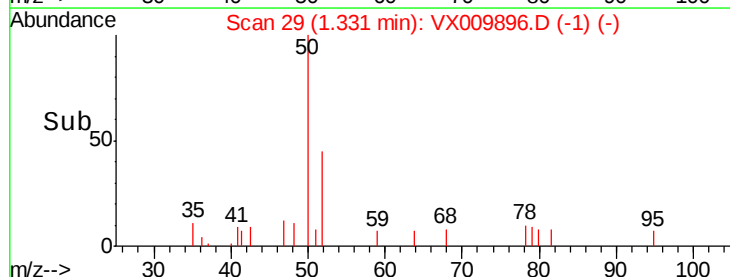
400

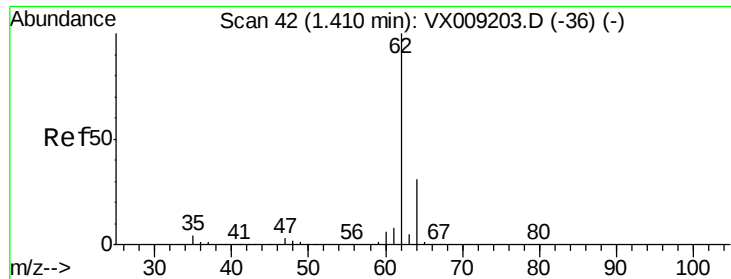
200

0

1.30 1.35 1.40

Time-->





#4

Vinyl Chloride

Concen: 4.207 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX009896.D

Acq: 24 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

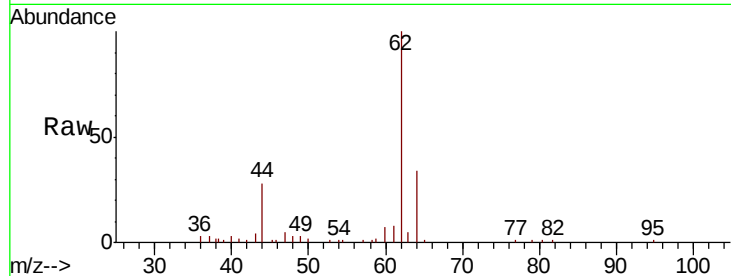
LF012RW035-190522

Tot Ion: 62 Resp: 8828

Ion Ratio Lower Upper

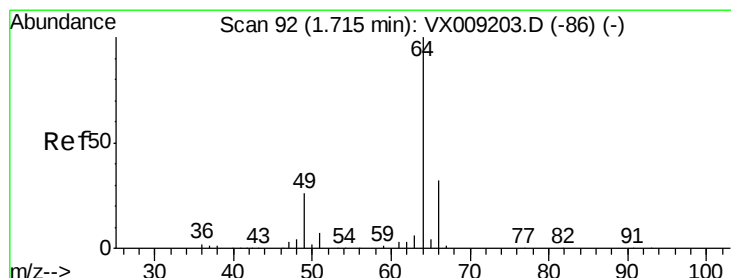
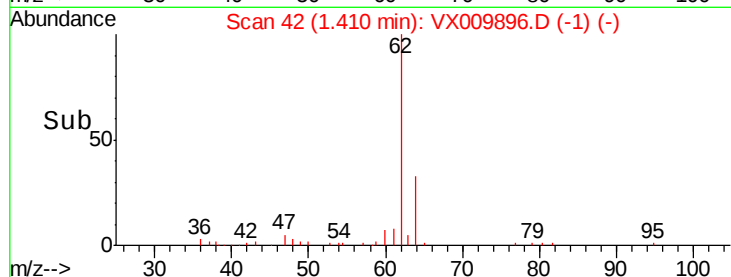
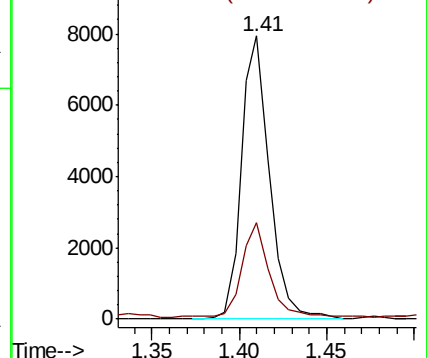
62 100

64 32.8 24.6 36.8



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#6

Chloroethane

Concen: 0.313 ug/l

RT: 1.71 min Scan# 92

Delta R.T. 0.00 min

Lab File: VX009896.D

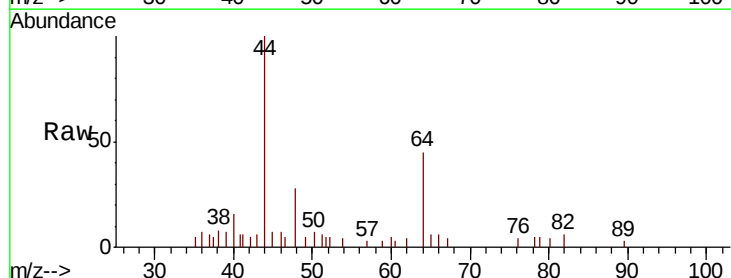
Acq: 24 May 2019 18:54

Tgt Ion: 64 Resp: 422

Ion Ratio Lower Upper

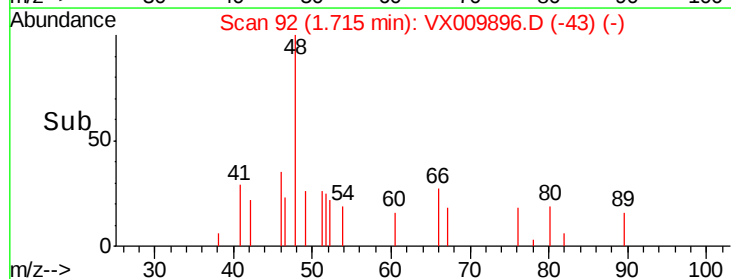
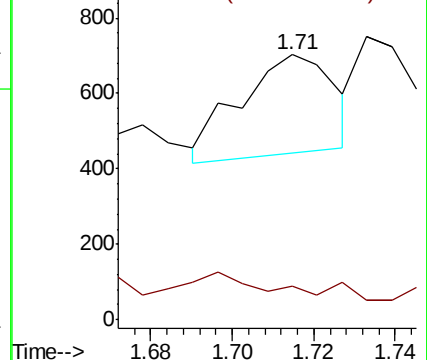
64 100

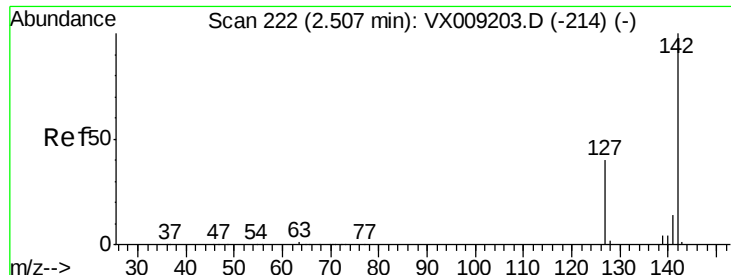
66 0.0 25.3 37.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

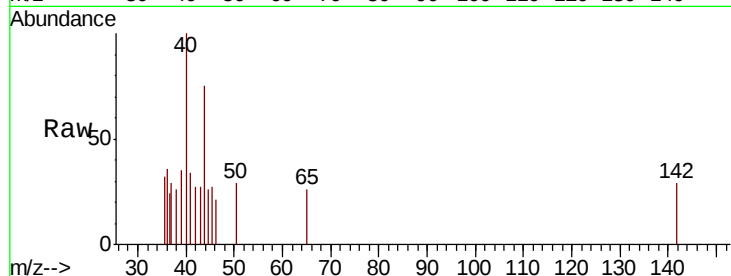




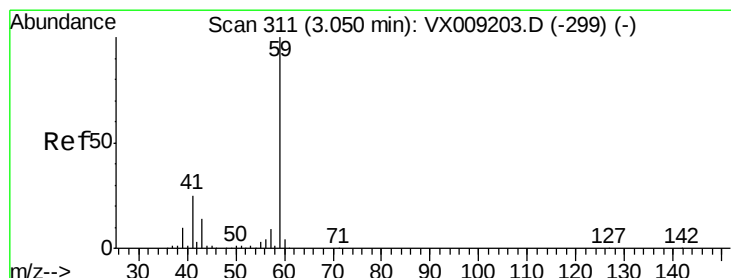
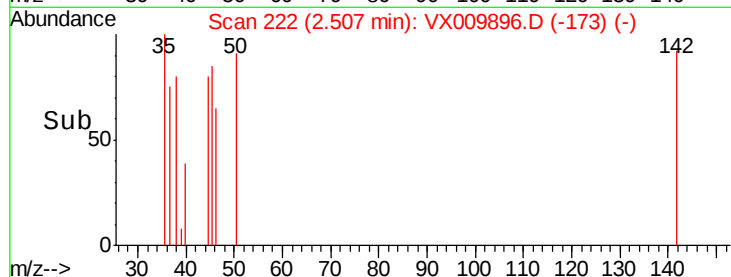
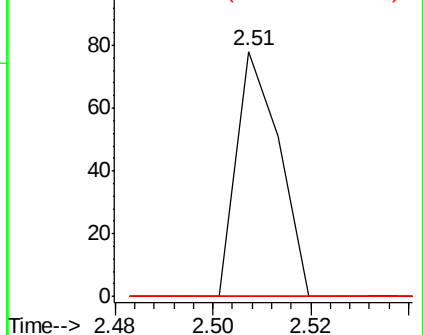
#10
Methvl Iodide
Concen: 4.617 ug/l
RT: 2.51 min Scan# 222
Delta R.T. 0.00 min
Lab File: VX009896.D
Acq: 24 May 2019 18:54

Instrument :
MSVOA_X
ClientSampleId :
LF012RW035-190522

Tot Ion:142 Resp: 47
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.5 17.3#

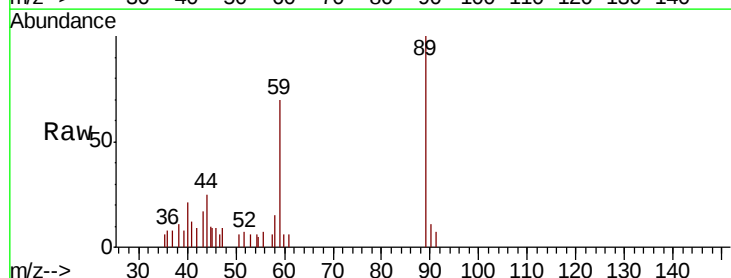


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

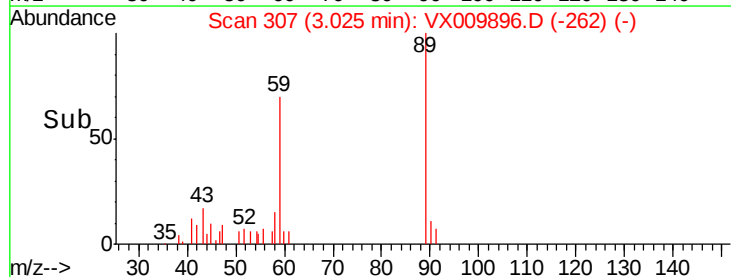
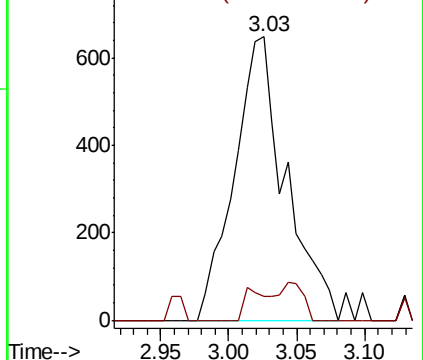


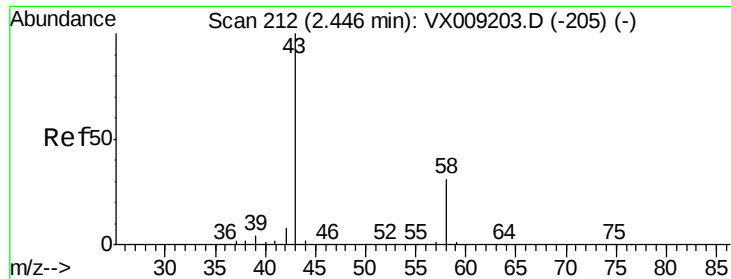
#11
Tert butyl alcohol
Concen: 3.156 ug/l
RT: 3.03 min Scan# 307
Delta R.T. -0.02 min
Lab File: VX009896.D
Acq: 24 May 2019 18:54

Tgt Ion: 59 Resp: 1706
Ion Ratio Lower Upper
59 100
57 4.1 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0
Ion 57.00 (56.70 to 57.70): VX0

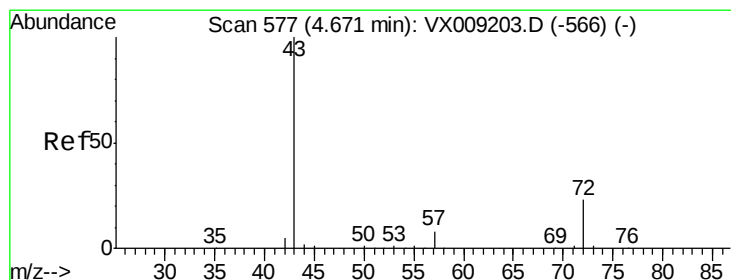
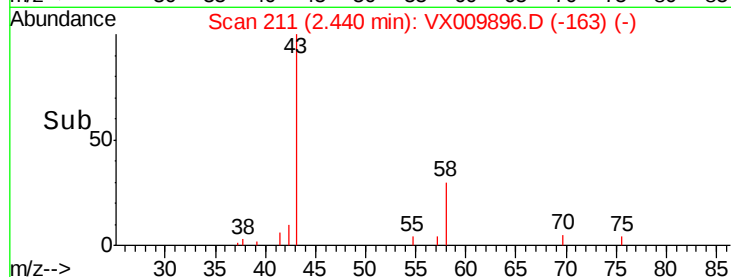
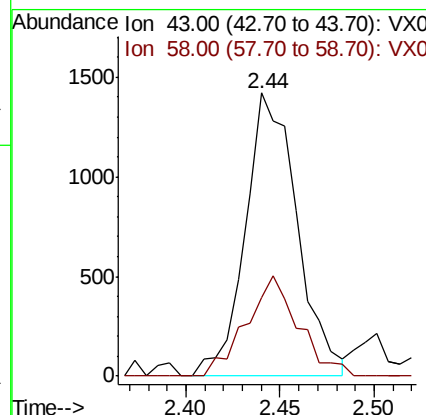
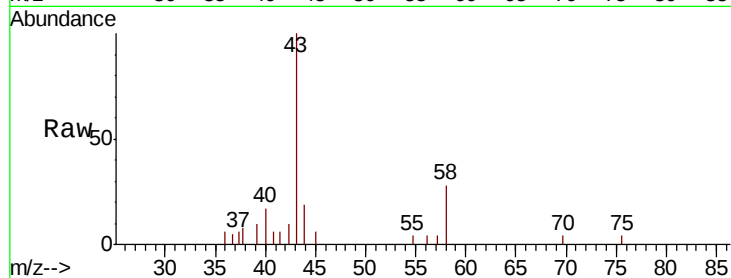




#16
Acetone
Concen: 2.161 ug/l
RT: 2.44 min Scan# 211
Delta R.T. -0.01 min
Lab File: VX009896.D
Acq: 24 May 2019 18:54

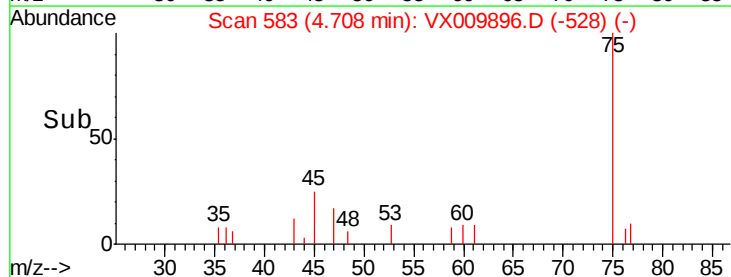
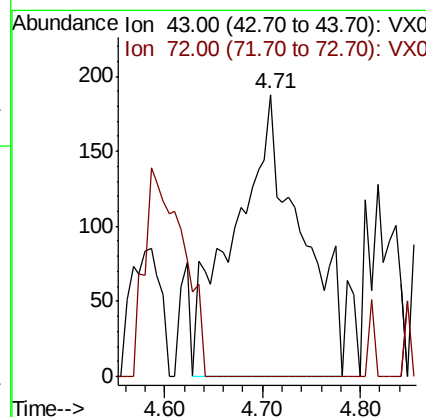
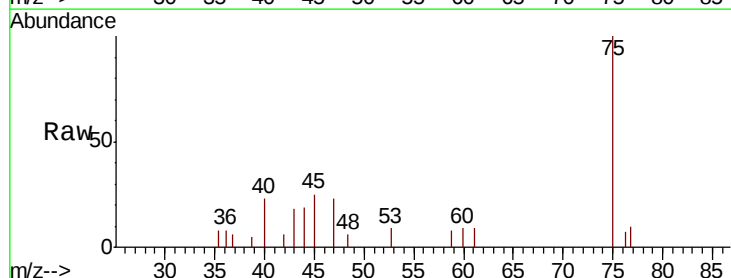
Instrument :
MSVOA_X
ClientSampleId :
LF012RW035-190522

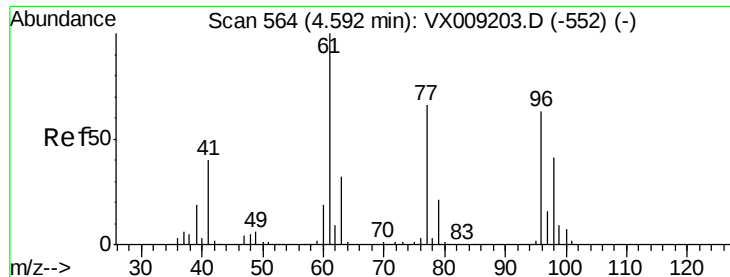
Tot Ion: 43 Resp: 2709
Ion Ratio Lower Upper
43 100
58 27.9 24.9 37.3



#25
2-Butanone
Concen: 0.450 ug/l
RT: 4.71 min Scan# 583
Delta R.T. 0.04 min
Lab File: VX009896.D
Acq: 24 May 2019 18:54

Tgt Ion: 43 Resp: 876
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#



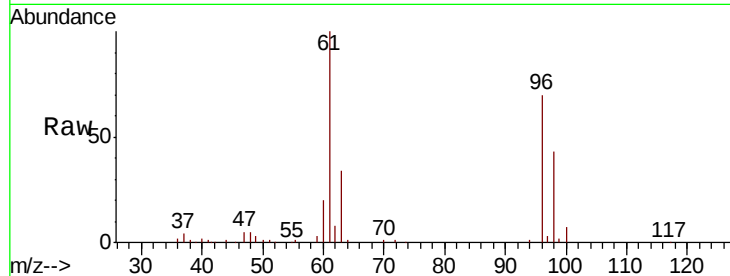


#27

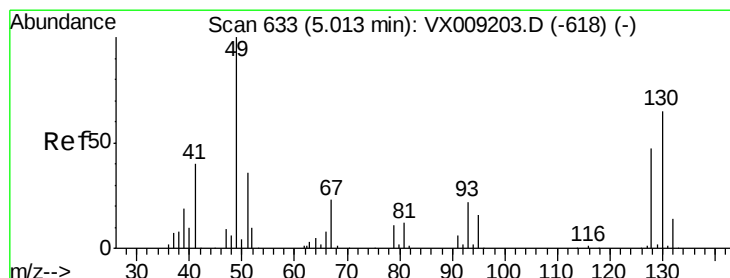
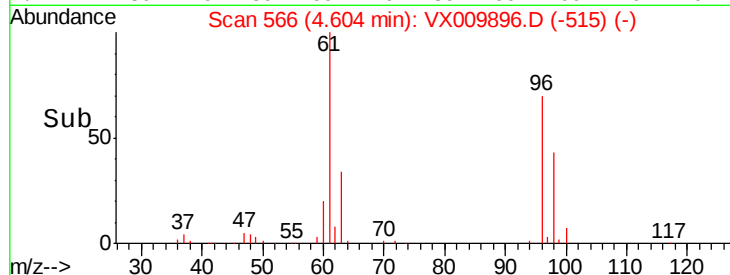
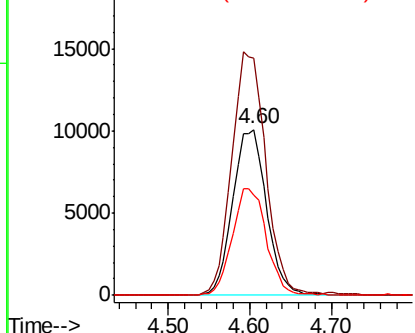
cis-1,2-Dichloroethene
Concen: 13.931 ug/l
RT: 4.60 min Scan# 566
Delta R.T. 0.01 min
Lab File: VX009896.D
Acq: 24 May 2019 18:54

Instrument :
MSVOA_X
ClientSampleId :
LF012RW035-190522

Tot Ion: 96 Resp: 28943
Ion Ratio Lower Upper
96 100
61 147.5 0.0 324.0
98 65.0 0.0 130.4



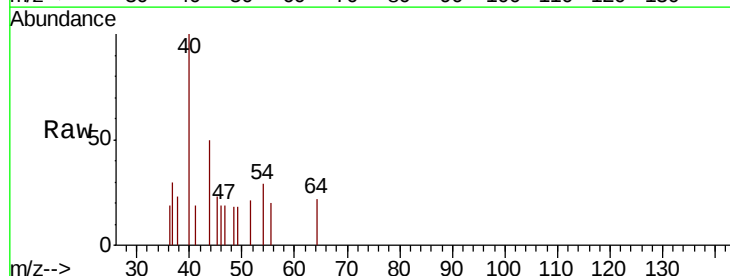
Abundance Ion 95.90 (95.60 to 96.60): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 97.90 (97.60 to 98.60): VX0



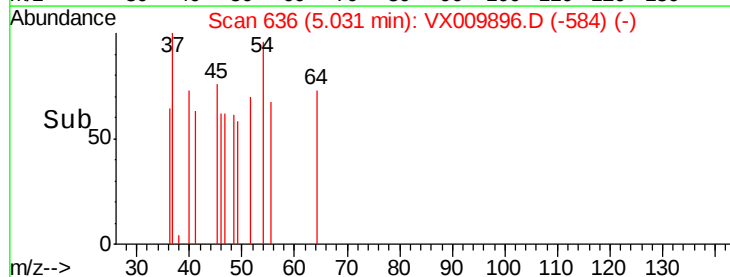
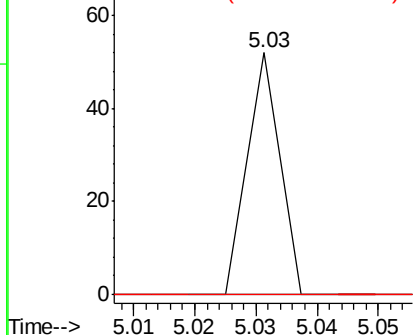
#28

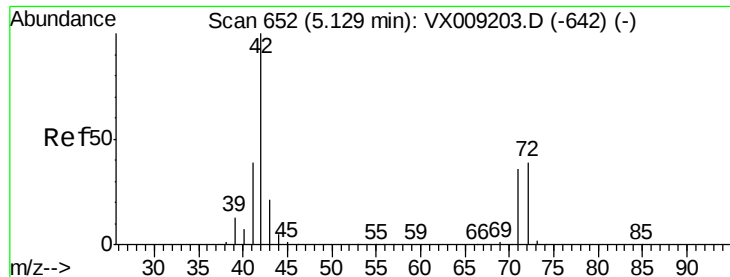
Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 636
Delta R.T. 0.02 min
Lab File: VX009896.D
Acq: 24 May 2019 18:54

Tgt Ion: 49 Resp: 19
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 51.2 76.8#



Abundance Ion 48.90 (48.60 to 49.60): VX0
Ion 128.80 (128.50 to 129.50): V
Ion 129.80 (129.50 to 130.50): V





#29

Tetrahydrofuran

Concen: 0.313 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.03 min

Lab File: VX009896.D

Acq: 24 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

LF012RW035-190522

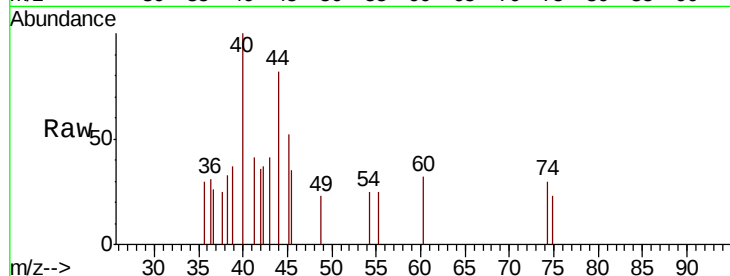
Tot Ion: 42 Resp: 392

Ion Ratio Lower Upper

42 100

72 0.0 30.4 45.6#

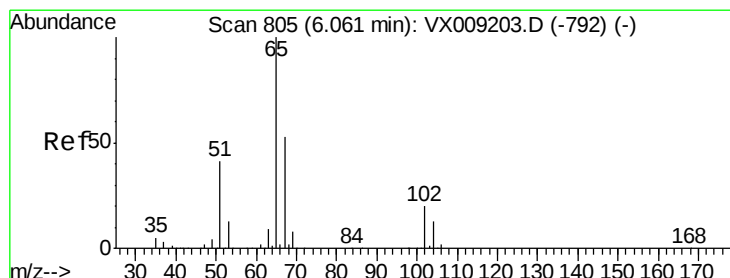
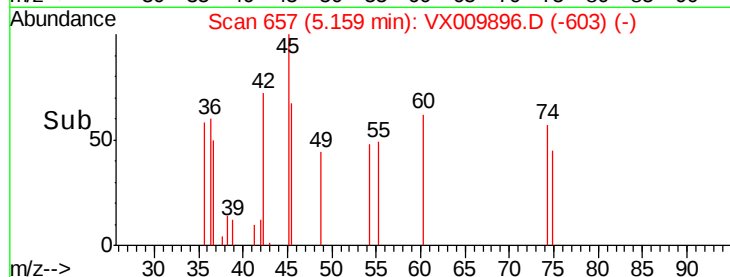
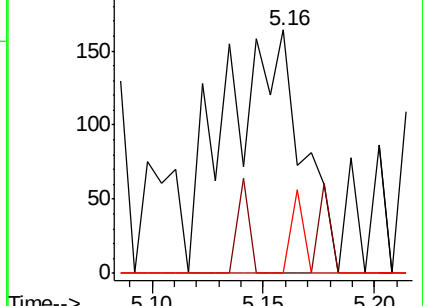
71 5.1 28.6 43.0#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.317 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX009896.D

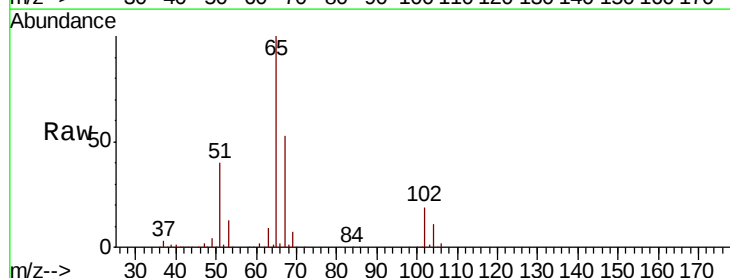
Acq: 24 May 2019 18:54

Tgt Ion: 65 Resp: 119830

Ion Ratio Lower Upper

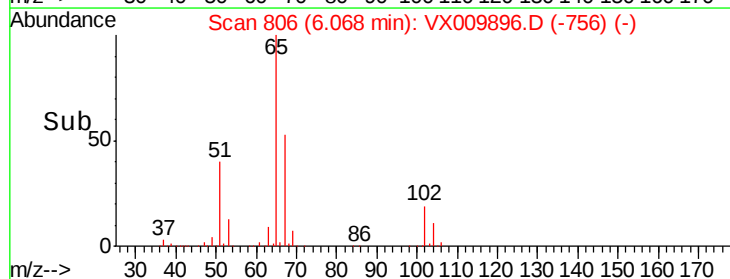
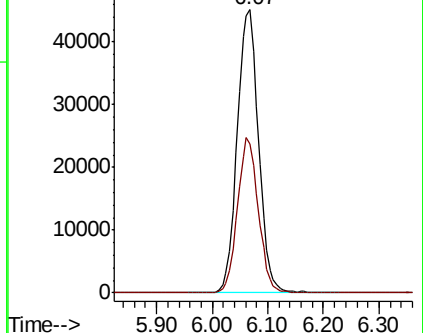
65 100

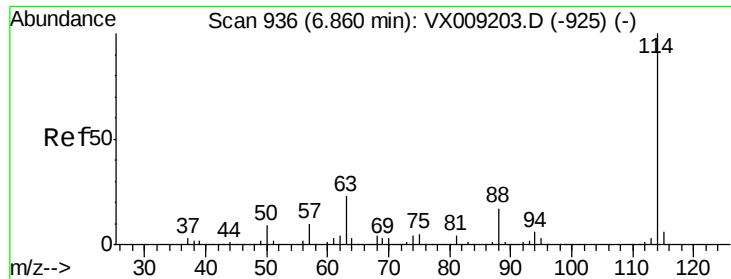
67 53.5 0.0 106.6



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

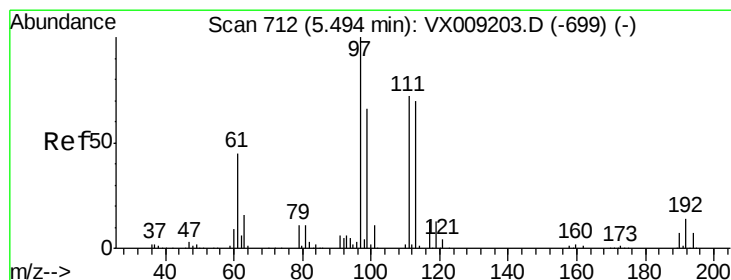
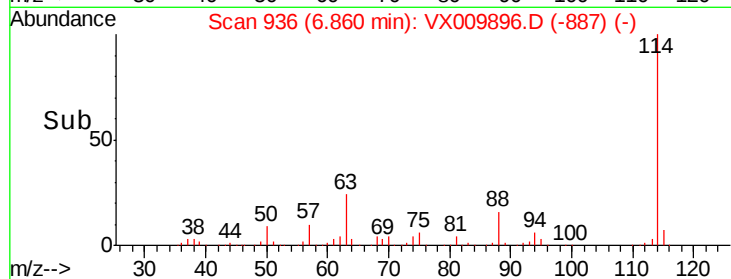
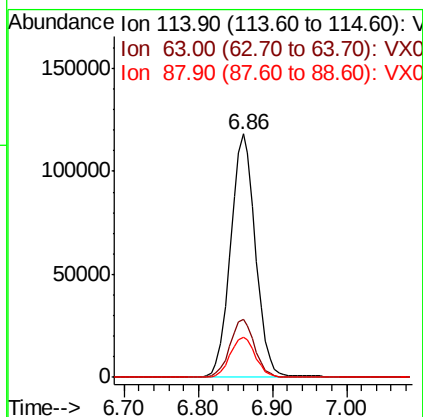
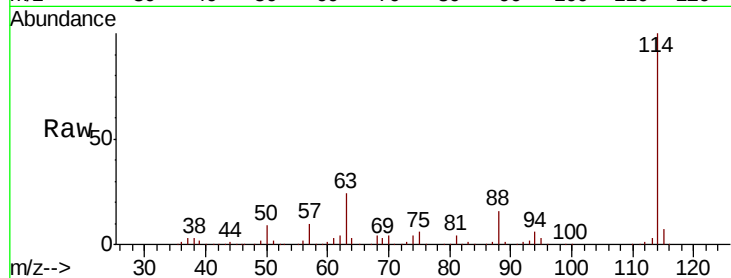




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX009896.D
 Acq: 24 May 2019 18:54

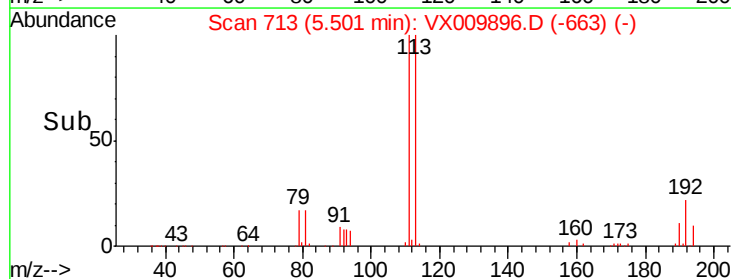
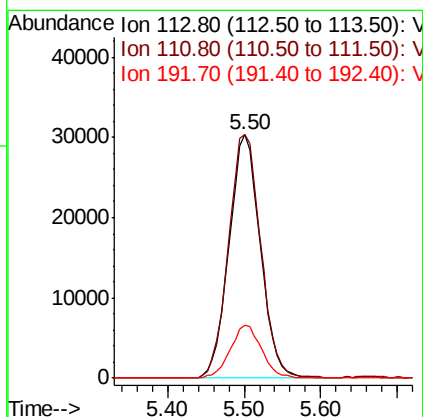
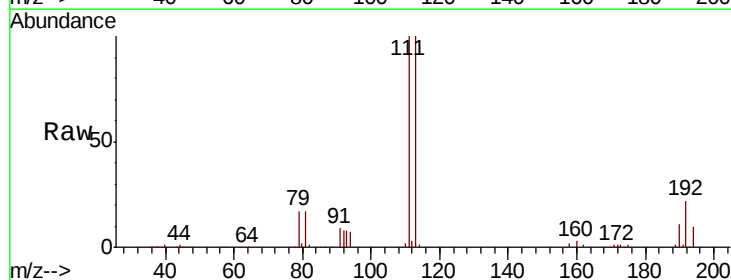
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW035-190522

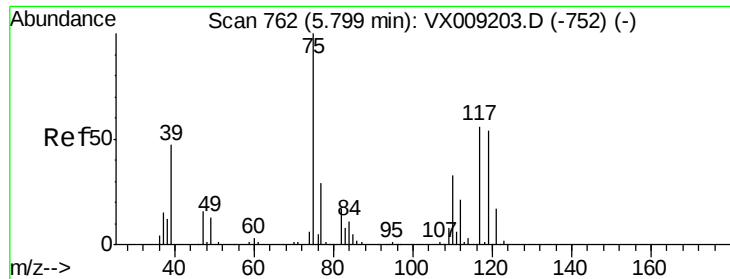
Tot Ion:114 Resp: 277042
 Ion Ratio Lower Upper
 114 100
 63 23.7 0.0 45.6
 88 16.4 0.0 33.2



#35
 Dibromofluoromethane
 Concen: 49.342 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX009896.D
 Acq: 24 May 2019 18:54

Tgt Ion:113 Resp: 85934
 Ion Ratio Lower Upper
 113 100
 111 103.0 82.8 124.2
 192 21.6 17.0 25.6

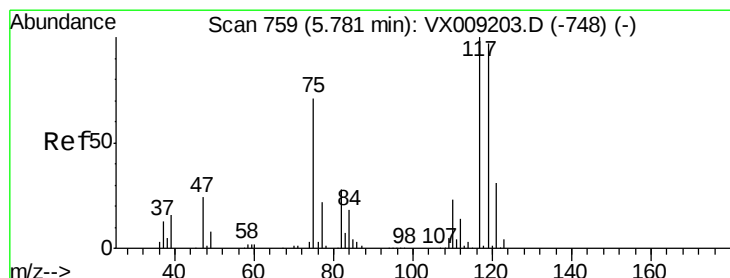
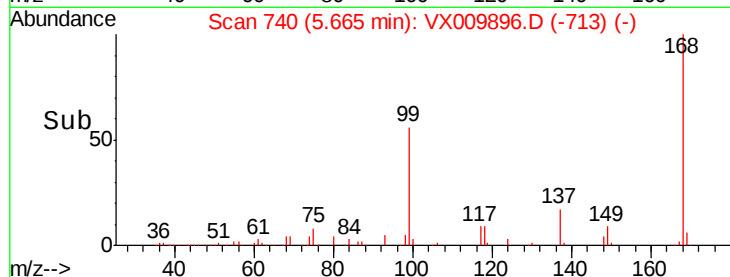
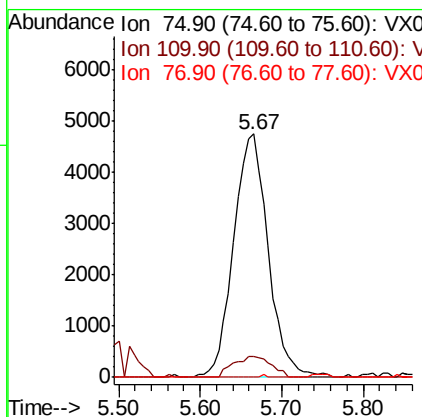
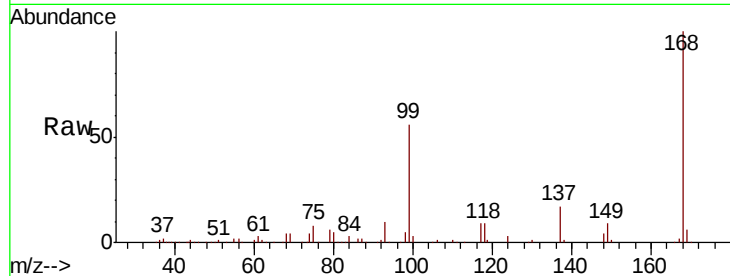




#36
 1,1-Dichloropropene
 Concen: 5.411 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.13 min
 Lab File: VX009896.D
 Acq: 24 May 2019 18:54

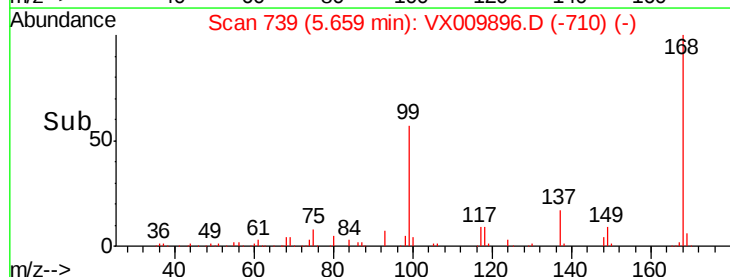
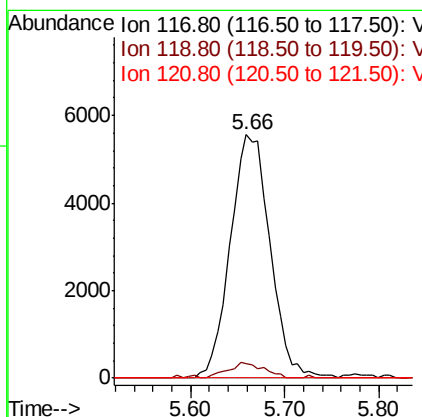
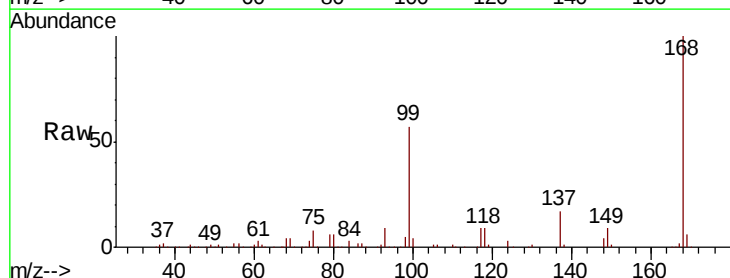
Instrument :
 MSVOA_X
 ClientSampleId :
 LF012RW035-190522

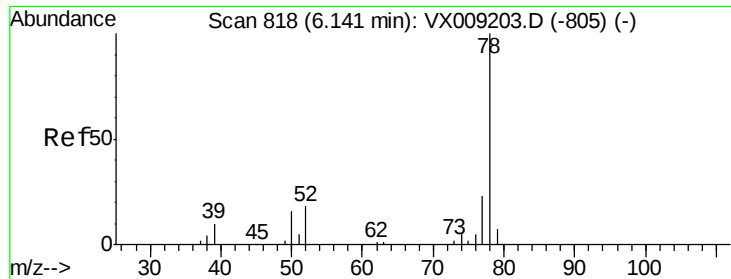
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	16.9	50.6#
77	0.1	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.964 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.12 min
 Lab File: VX009896.D
 Acq: 24 May 2019 18:54

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.7	77.5	116.3#
121	0.0	24.7	37.1#





#40

Benzene

Concen: 0.249 ug/l

RT: 6.15 min Scan# 820

Delta R.T. 0.01 min

Lab File: VX009896.D

Acq: 24 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

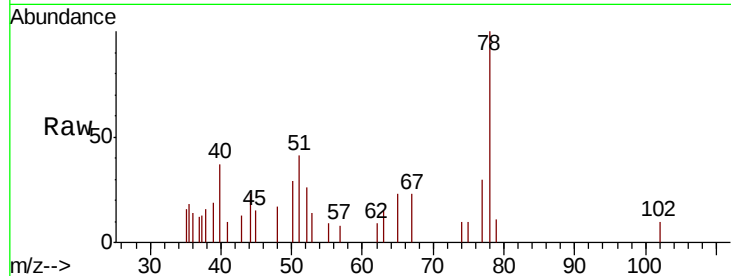
LF012RW035-190522

Tot Ion: 78 Resp: 1987

Ion Ratio Lower Upper

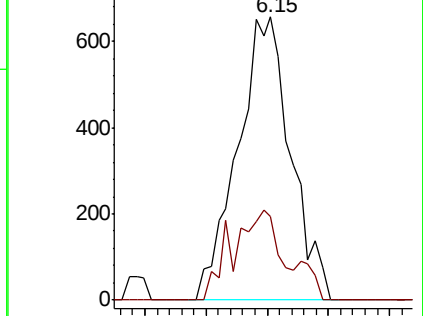
78 100

77 29.5 18.8 28.2#

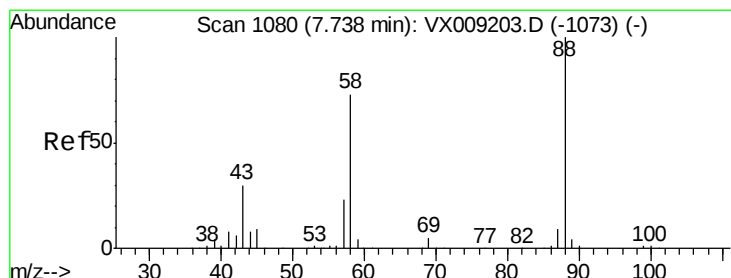
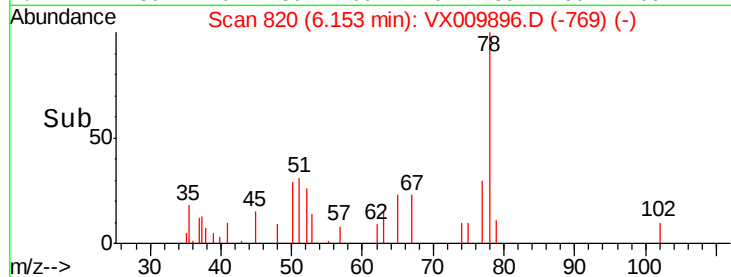


Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0



Time-->



#49

1,4-Dioxane

Concen: 0.381 ug/l

RT: 7.82 min Scan# 1094

Delta R.T. 0.09 min

Lab File: VX009896.D

Acq: 24 May 2019 18:54

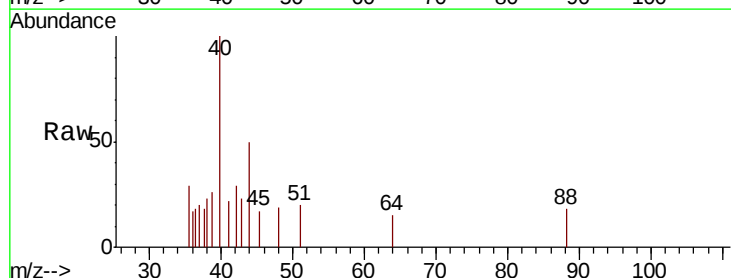
Tgt Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 690.9 28.6 42.8#

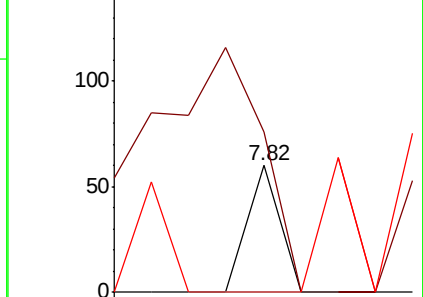
58 104.5 61.7 92.5#



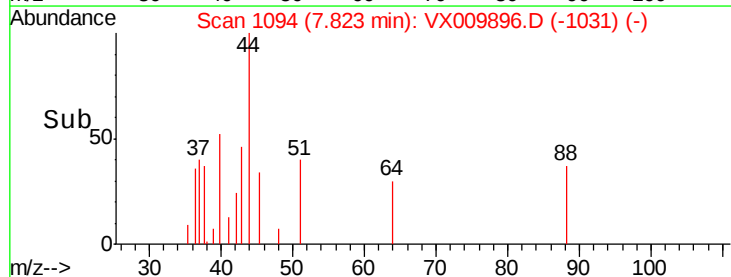
Abundance Ion 88.00 (87.70 to 88.70): VX0

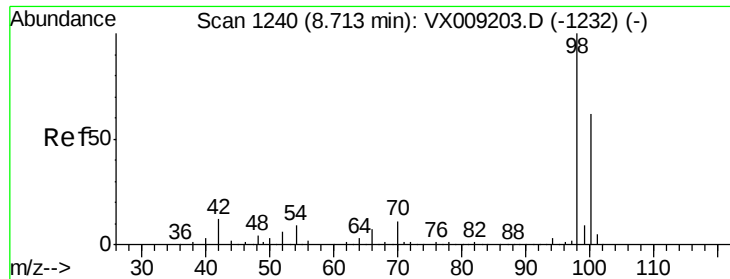
Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->





#50

Toluene-d8

Concen: 50.473 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX009896.D

Acq: 24 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

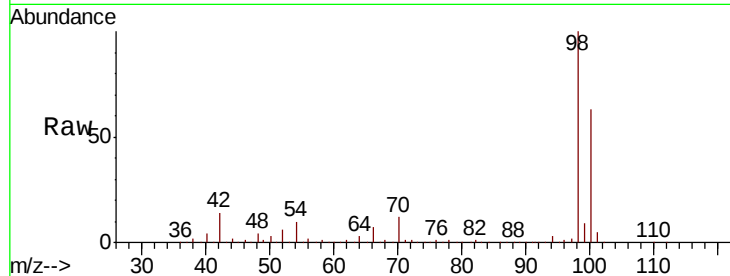
LF012RW035-190522

Tot Ion: 98 Resp: 354891

Ion Ratio Lower Upper

98 100

100 63.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

250000

200000

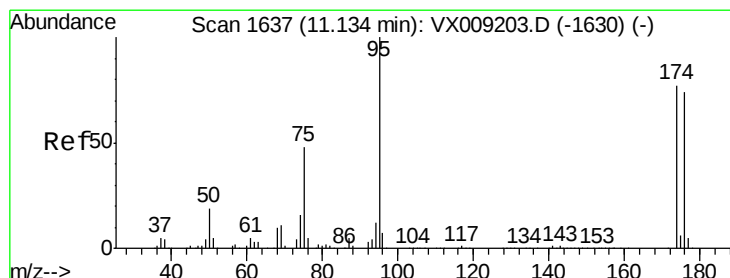
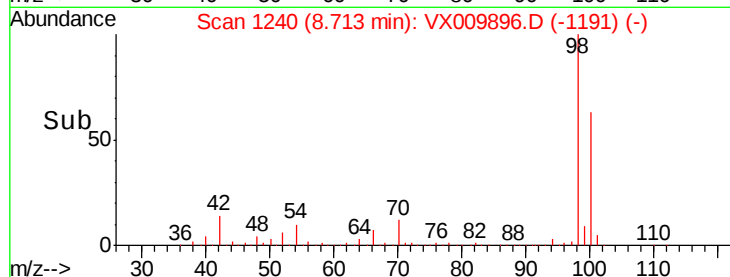
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 47.094 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX009896.D

Acq: 24 May 2019 18:54

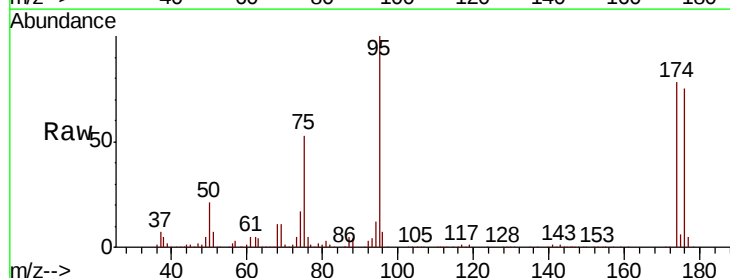
Tgt Ion: 95 Resp: 120321

Ion Ratio Lower Upper

95 100

174 81.2 0.0 161.6

176 78.4 0.0 159.2



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

11.13

120000

100000

80000

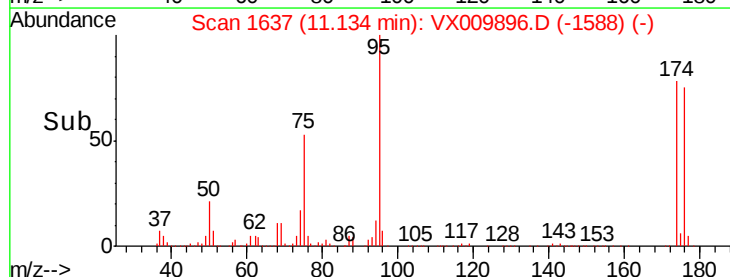
60000

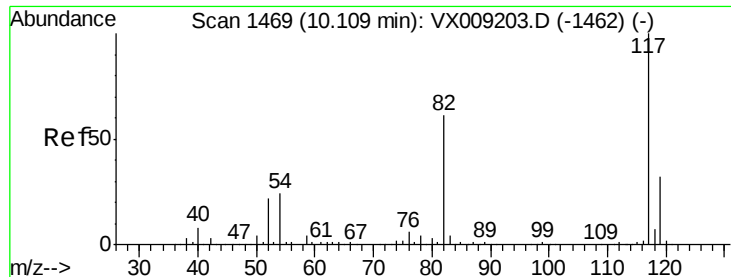
40000

20000

0

Time-->

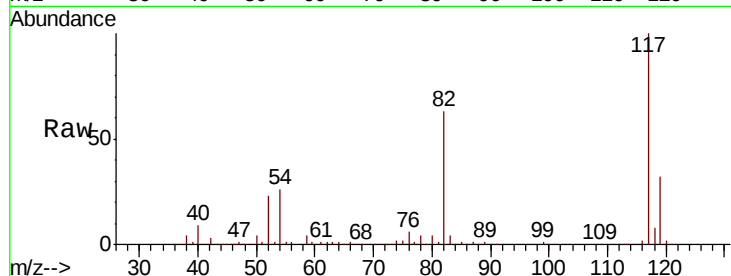




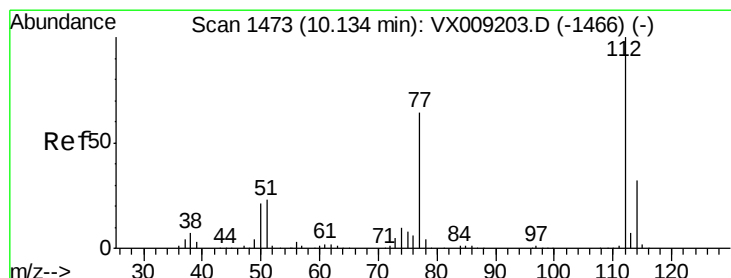
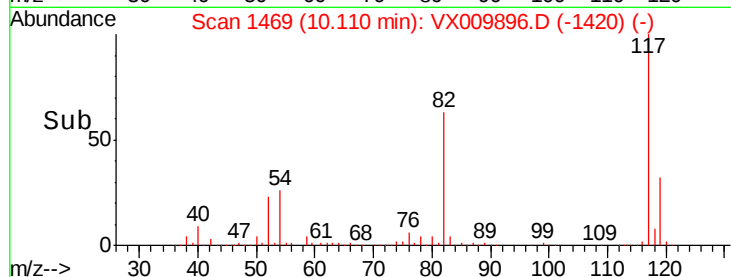
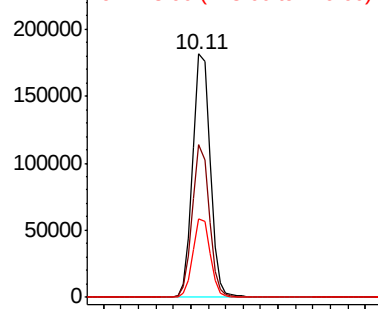
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX009896.D
Acq: 24 May 2019 18:54

Instrument :
MSVOA_X
ClientSampleId :
LF012RW035-190522

Tot Ion:117 Resp: 251234
Ion Ratio Lower Upper
117 100
82 62.5 48.8 73.2
119 32.1 25.8 38.6

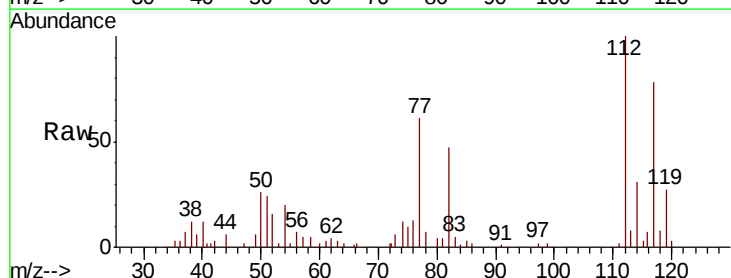


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

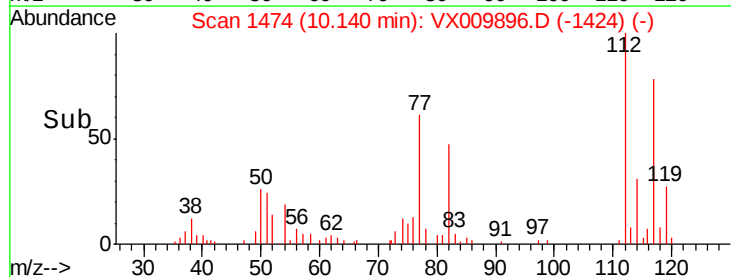
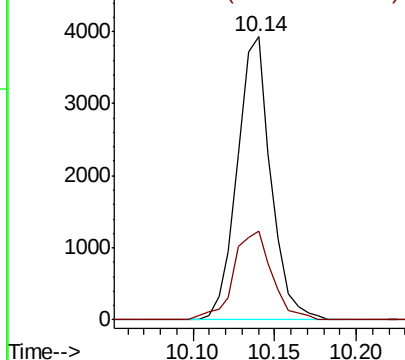


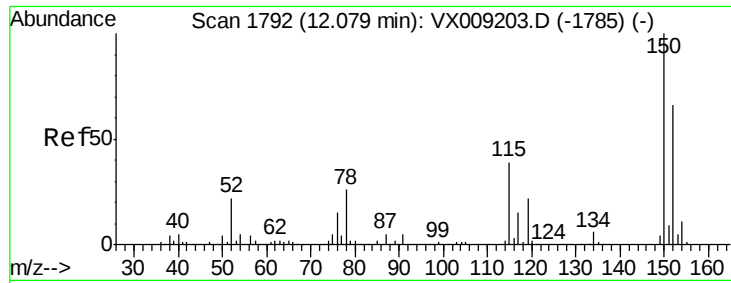
#65
Chlorobenzene
Concen: 1.121 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.01 min
Lab File: VX009896.D
Acq: 24 May 2019 18:54

Tgt Ion:112 Resp: 5636
Ion Ratio Lower Upper
112 100
114 31.2 25.5 38.3



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: VX009896.D

Acq: 24 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

LF012RW035-190522

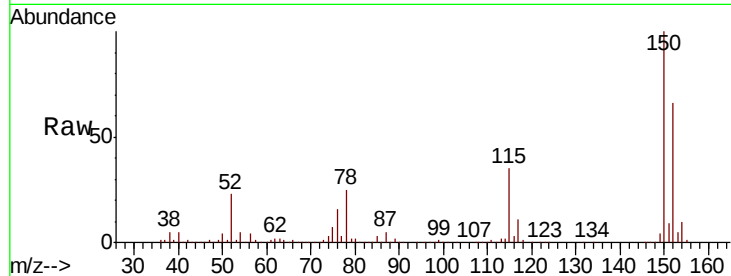
Tot Ion:152 Resp: 111539

Ion Ratio Lower Upper

152 100

115 57.8 41.2 123.6

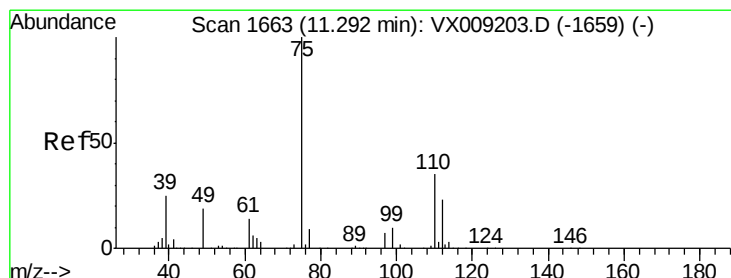
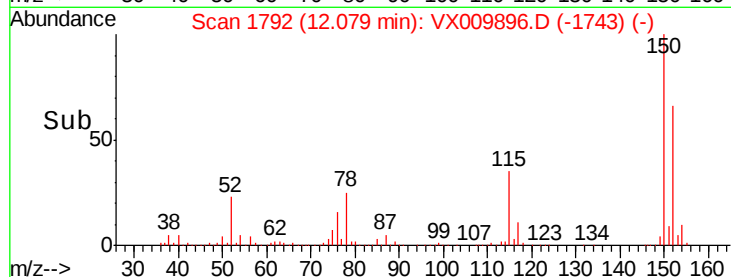
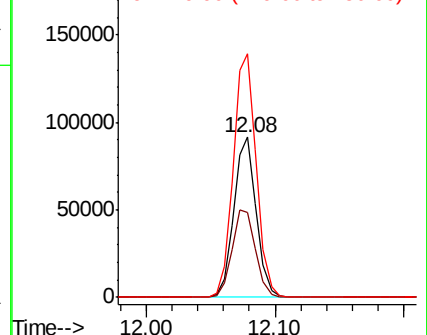
150 156.0 0.0 346.4



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: 24.265 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX009896.D

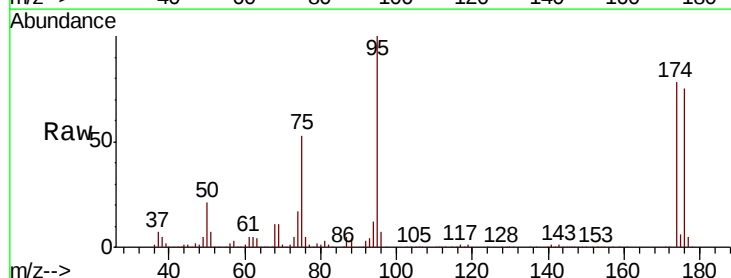
Acq: 24 May 2019 18:54

Tgt Ion: 75 Resp: 62781

Ion Ratio Lower Upper

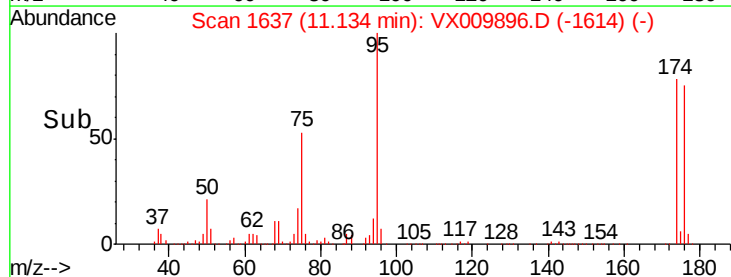
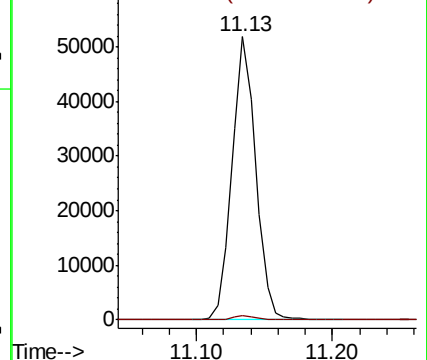
75 100

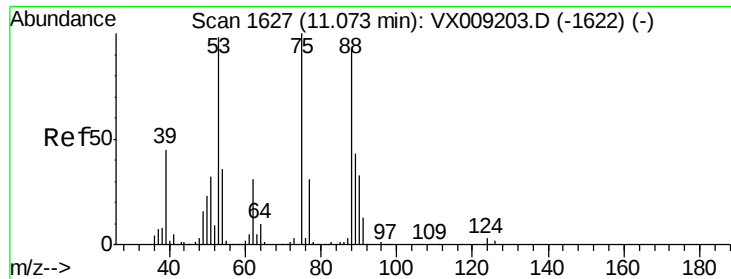
77 1.5 22.1 66.1#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 62.086 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX009896.D

Acq: 24 May 2019 18:54

Instrument :

MSVOA_X

ClientSampleId :

LF012RW035-190522

Tot Ion: 75 Resp: 62781

Ion Ratio Lower Upper

75 100

53 0.2 79.0 118.6#

89 0.0 34.7 52.1#

