

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041319\
 Data File : VX008934.D
 Acq On : 13 Apr 2019 16:09
 Operator : JC/SP
 Sample : K2385-16
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Apr 14 04:14:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X040319W.M
 Quant Title : SW846 8260
 QLast Update : Thu Apr 04 04:47:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	194963	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	308194	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	264929	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	112362	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	123299	43.36	ug/l	0.00
Spiked Amount			Recovery	=	86.72%	
35) Dibromofluoromethane	5.50	113	92422	46.90	ug/l	0.00
Spiked Amount			Recovery	=	93.80%	
50) Toluene-d8	8.71	98	382511	48.75	ug/l	0.00
Spiked Amount			Recovery	=	97.50%	
62) 4-Bromofluorobenzene	11.13	95	126115	45.33	ug/l	0.00
Spiked Amount			Recovery	=	90.66%	

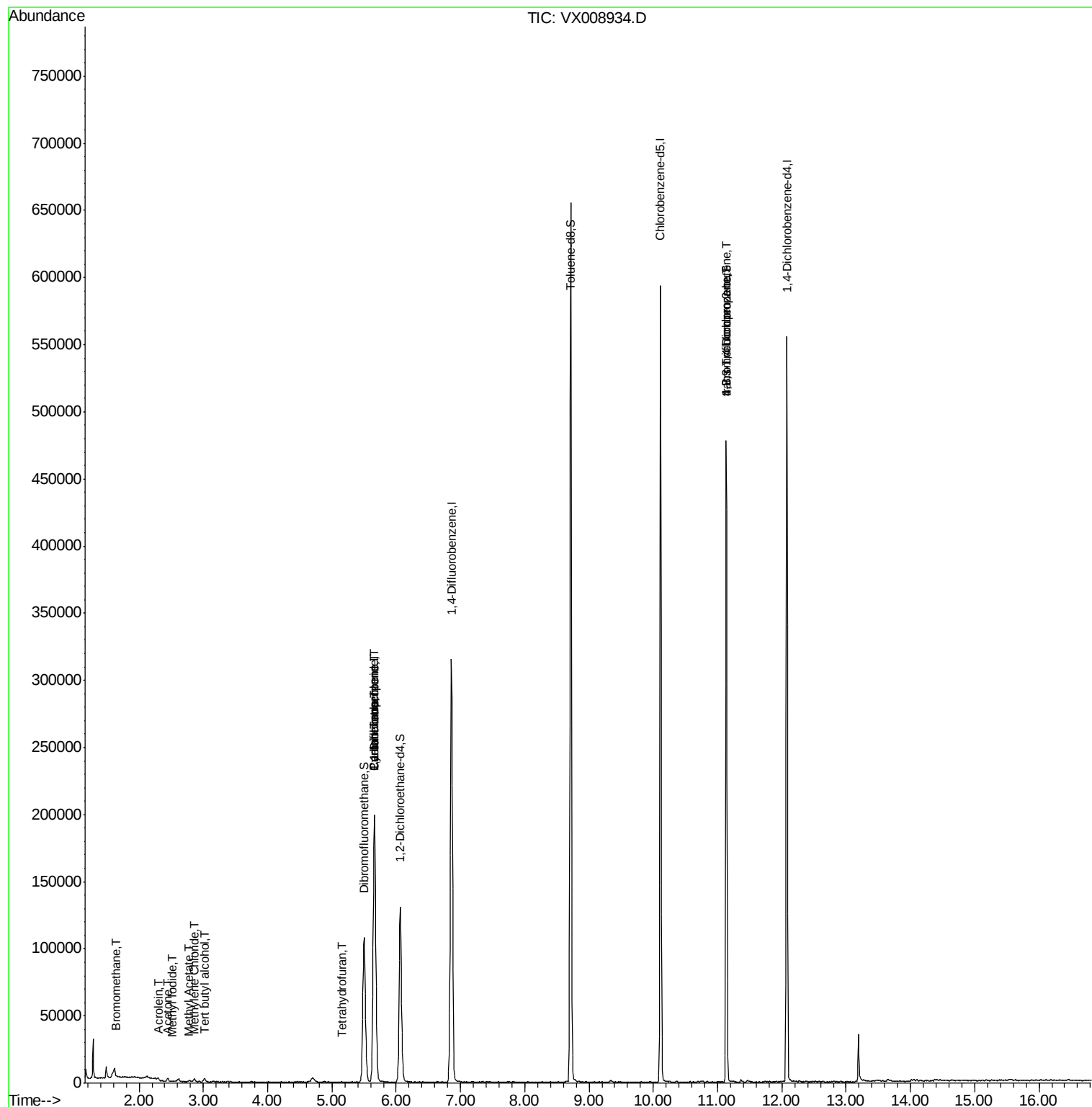
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	367	Below Cal		91
5) Bromomethane	1.64	94	515	2.217 ug/l		89
6) Chloroethane	1.72	64	90	Below Cal	#	1
10) Methyl Iodide	2.51	142	79	4.040 ug/l	#	72
11) Tert butyl alcohol	3.01	59	1497	2.249 ug/l	#	76
13) Acrolein	2.30	56	279	0.845 ug/l	#	77
16) Acetone	2.44	43	2991	1.826 ug/l		97
17) Carbon Disulfide	2.57	76	749	Below Cal	#	76
18) Methyl Acetate	2.78	43	1230	0.310 ug/l		97
20) Methylene Chloride	2.86	84	914	0.333 ug/l	#	85
28) Bromochloromethane	5.03	49	26	Below Cal	#	22
29) Tetrahydrofuran	5.16	42	355	0.207 ug/l	#	43
31) Cyclohexane	5.67	56	4456	0.907 ug/l	#	1
36) 1,1-Dichloropropene	5.66	75	15066	4.472 ug/l	#	50
38) Carbon Tetrachloride	5.66	117	18178	6.519 ug/l	#	17
76) 1,2,3-Trichloropropane	11.13	75	63971	20.725 ug/l	#	33
81) trans-1,4-Dichloro-2-buten	11.13	75	63971	57.129 ug/l	#	9

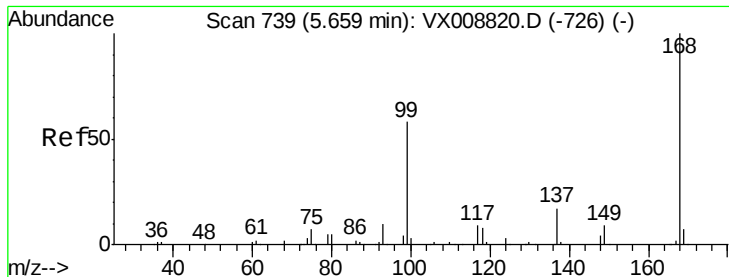
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX008934.D

Acq: 13 Apr 2019 16:09

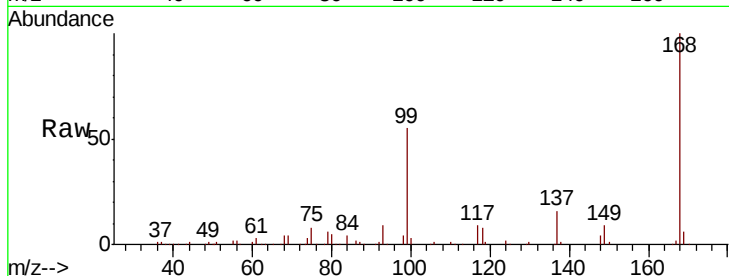
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 194963

Ion Ratio Lower Upper

168 100

99 54.7 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

80000

60000

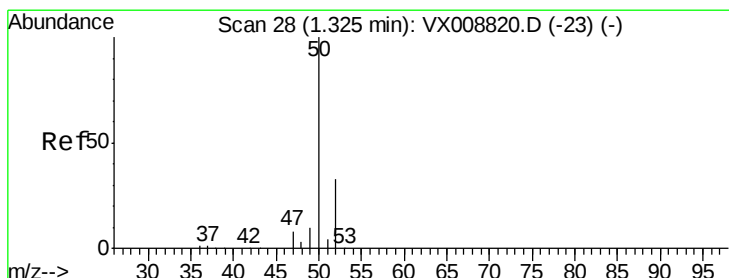
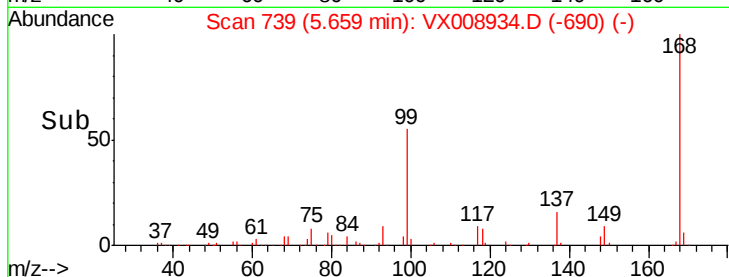
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008934.D

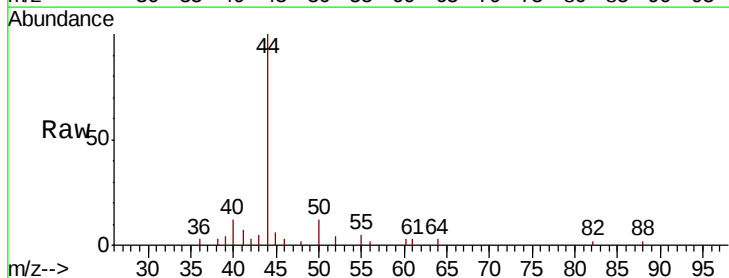
Acq: 13 Apr 2019 16:09

Tgt Ion: 50 Resp: 367

Ion Ratio Lower Upper

50 100

52 37.5 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

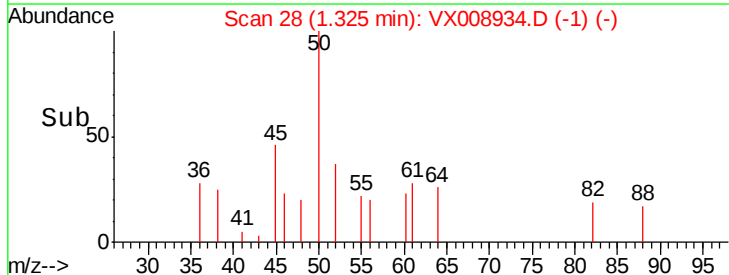
200

100

0

Time-->

1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 2.217 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008934.D

Acq: 13 Apr 2019 16:09

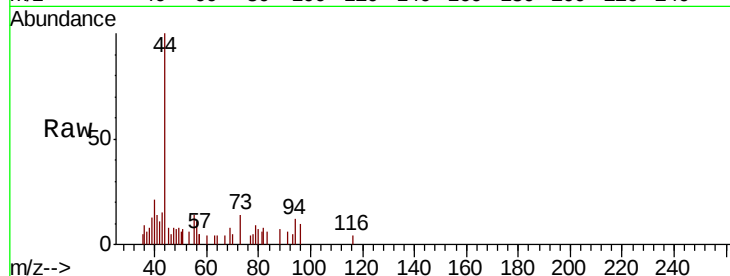
Instrument :
MSVOA_X
ClientSampled :

Tot Ion: 94 Resp: 515

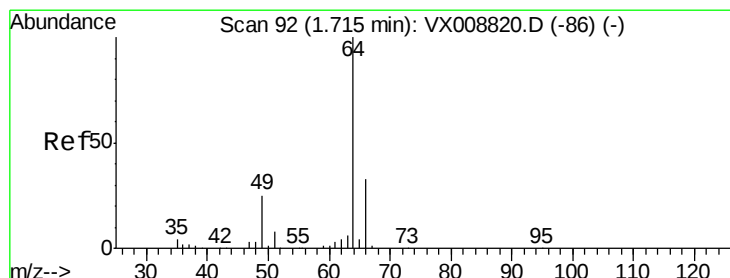
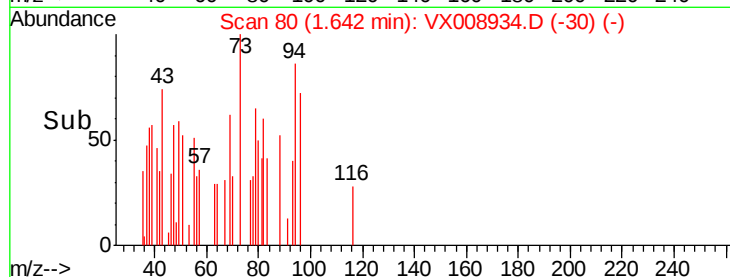
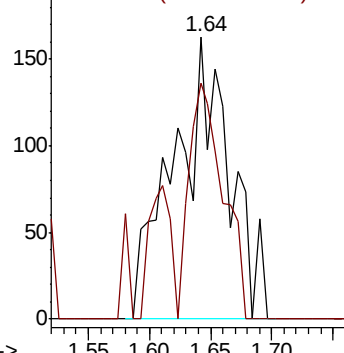
Ion Ratio Lower Upper

94 100

96 83.4 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0
Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX008934.D

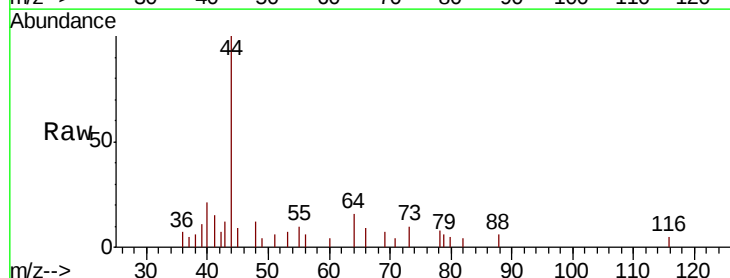
Acq: 13 Apr 2019 16:09

Tgt Ion: 64 Resp: 90

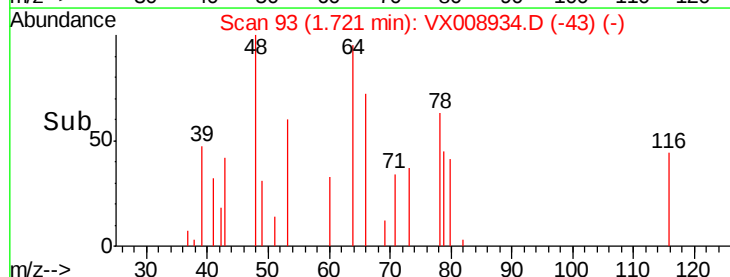
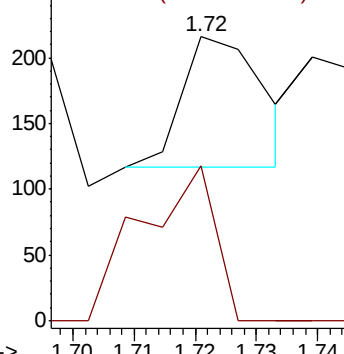
Ion Ratio Lower Upper

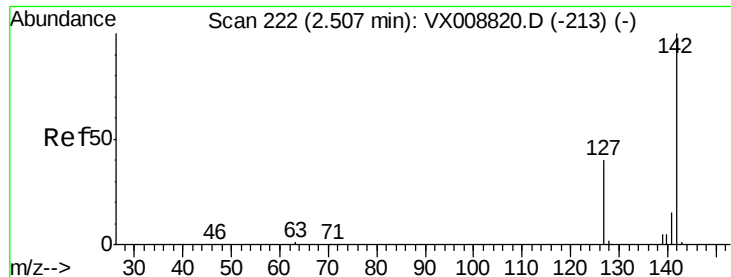
64 100

66 119.2 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0
Ion 65.90 (65.60 to 66.60): VX0

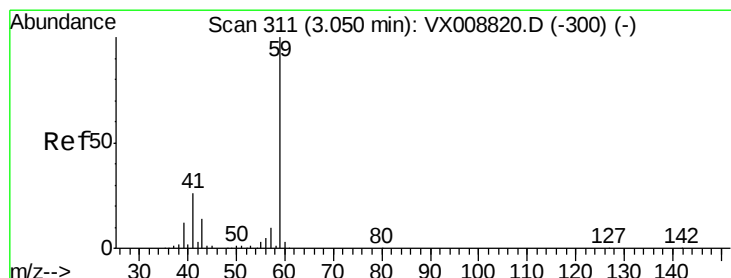
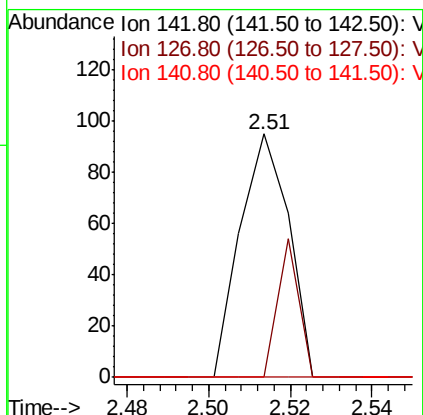
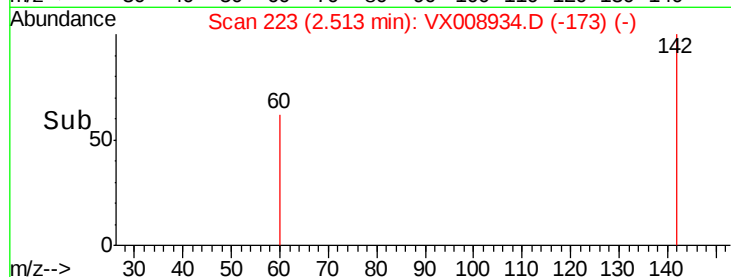
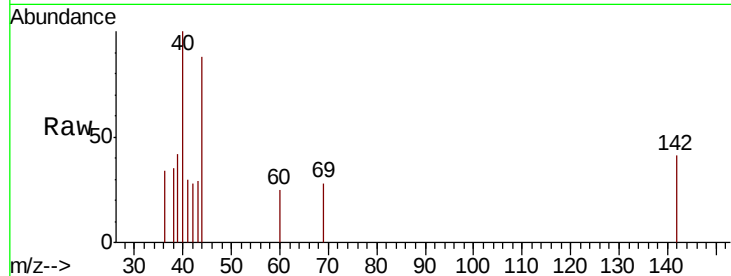




#10
Methvl Iodide
Concen: 4.040 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.01 min
Lab File: VX008934.D
Acq: 13 Apr 2019 16:09

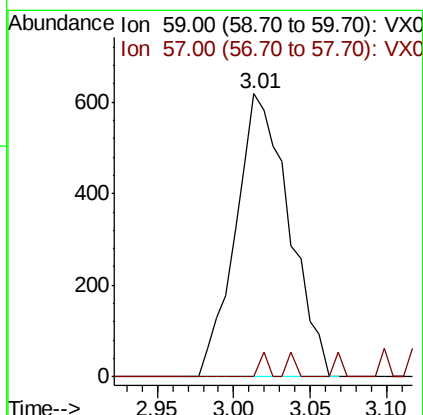
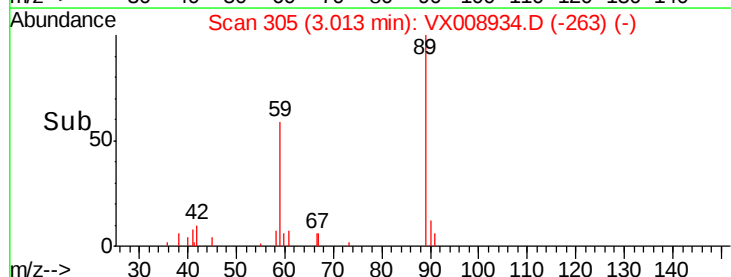
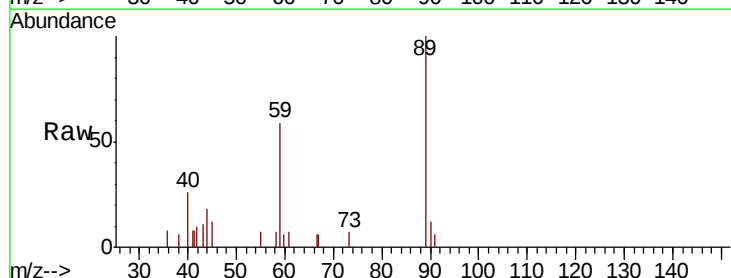
Instrument :
MSVOA_X
ClientSampleId :

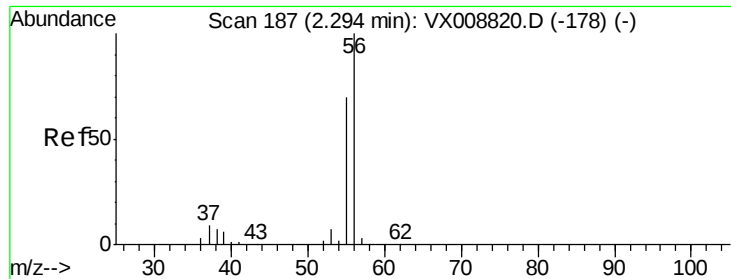
Tot Ion:142 Resp: 79
Ion Ratio Lower Upper
142 100
127 25.3 33.0 49.6#
141 0.0 11.4 17.2#



#11
Tert butyl alcohol
Concen: 2.249 ug/l
RT: 3.01 min Scan# 305
Delta R.T. -0.04 min
Lab File: VX008934.D
Acq: 13 Apr 2019 16:09

Tgt Ion: 59 Resp: 1497
Ion Ratio Lower Upper
59 100
57 1.3 8.3 12.5#





#13

Acrolein

Concen: 0.845 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX008934.D

Acq: 13 Apr 2019 16:09

Instrument :

MSVOA_X

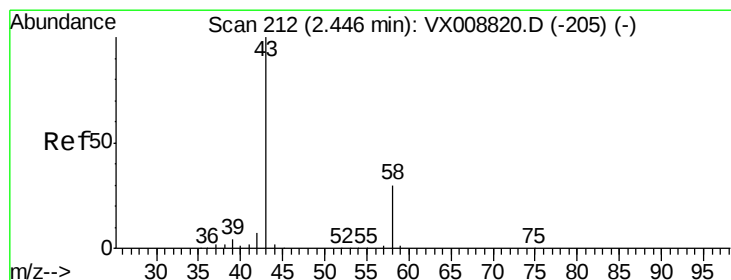
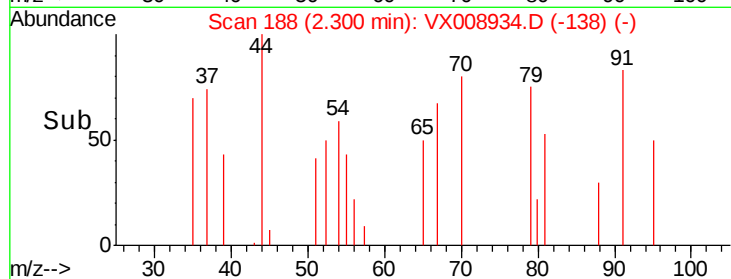
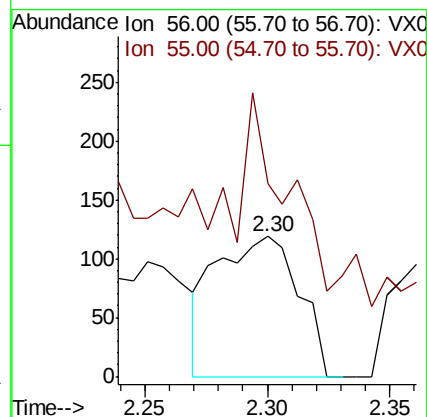
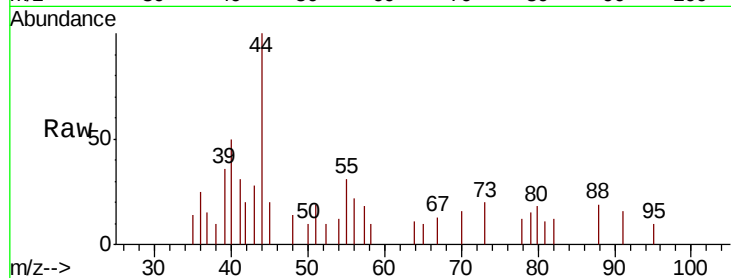
ClientSampleId :

Tot Ion: 56 Resp: 279

Ion Ratio Lower Upper

56 100

55 53.4 58.0 87.0#



#16

Acetone

Concen: 1.826 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX008934.D

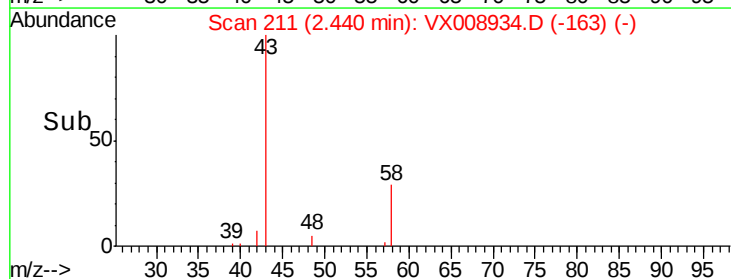
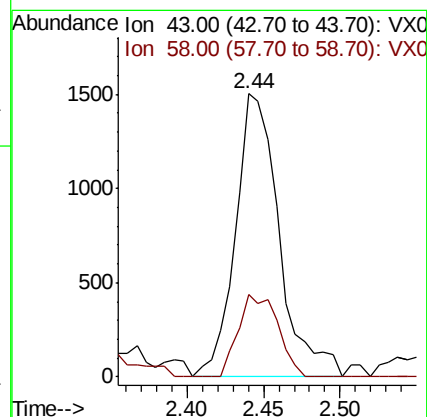
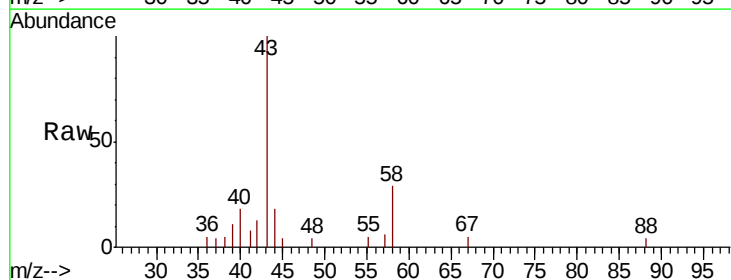
Acq: 13 Apr 2019 16:09

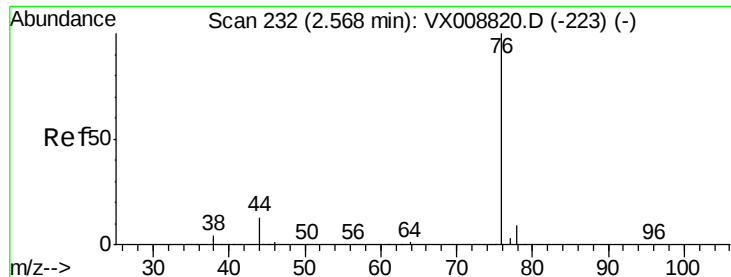
Tgt Ion: 43 Resp: 2991

Ion Ratio Lower Upper

43 100

58 29.3 24.8 37.2





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008934.D

Acq: 13 Apr 2019 16:09

Instrument :

MSVOA_X

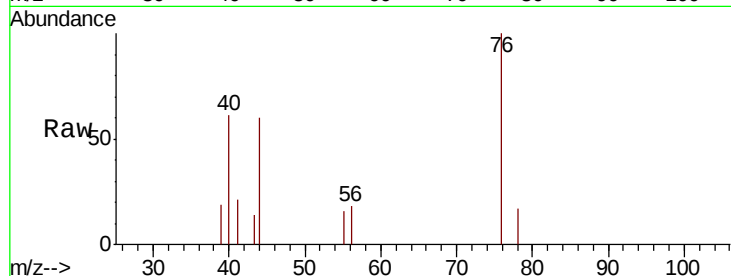
ClientSampleId :

Tot Ion: 76 Resp: 749

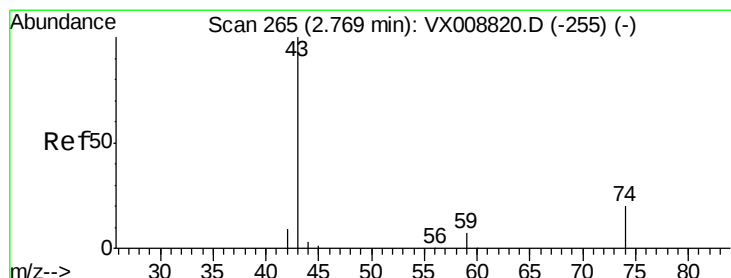
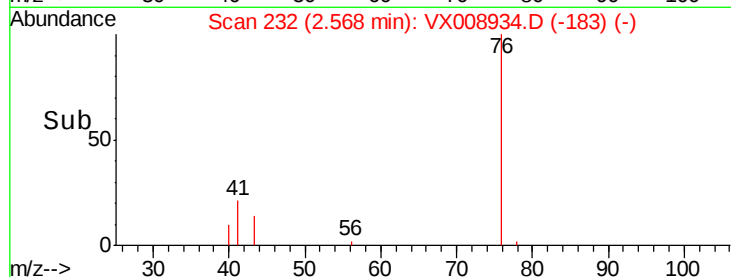
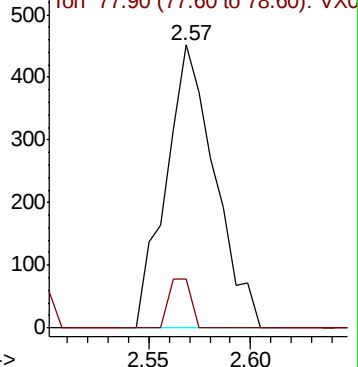
Ion Ratio Lower Upper

76 100

78 17.5 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0



#18

Methyl Acetate

Concen: 0.310 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.00 min

Lab File: VX008934.D

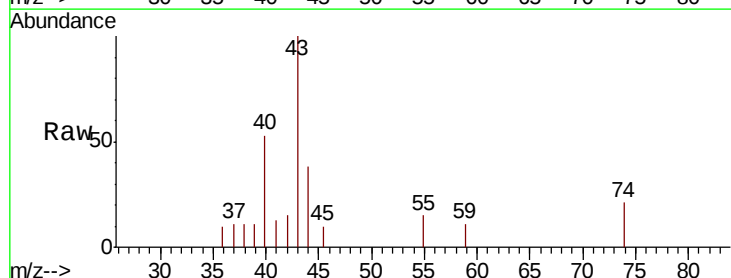
Acq: 13 Apr 2019 16:09

Tgt Ion: 43 Resp: 1230

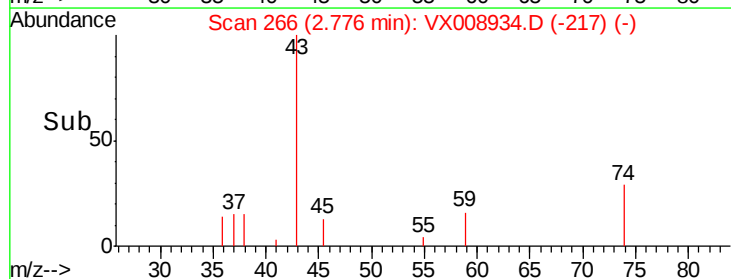
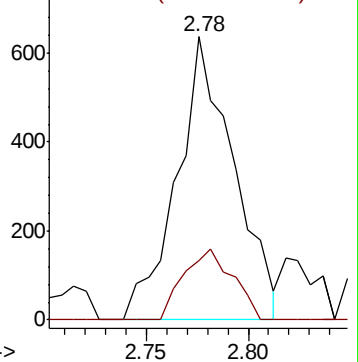
Ion Ratio Lower Upper

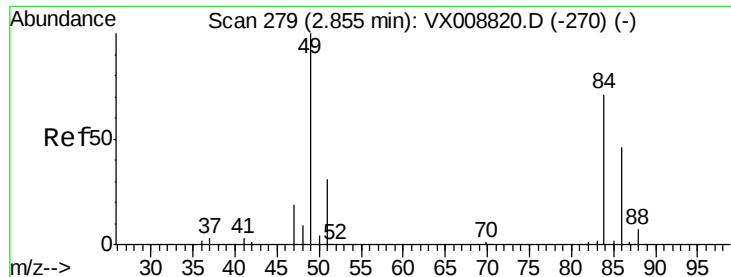
43 100

74 21.8 16.5 24.7



Abundance Ion 43.00 (42.70 to 43.70): VX0

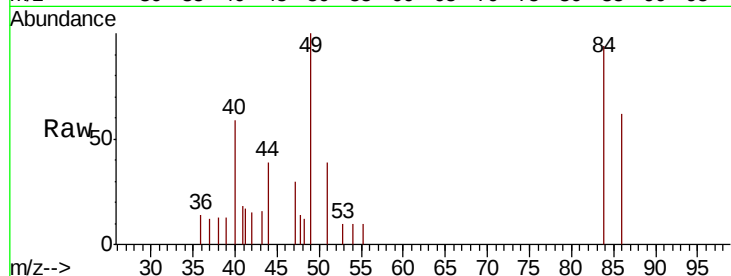




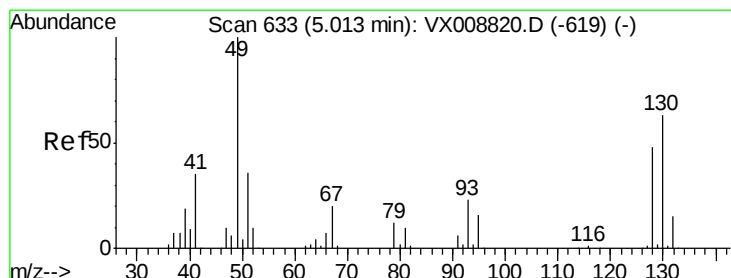
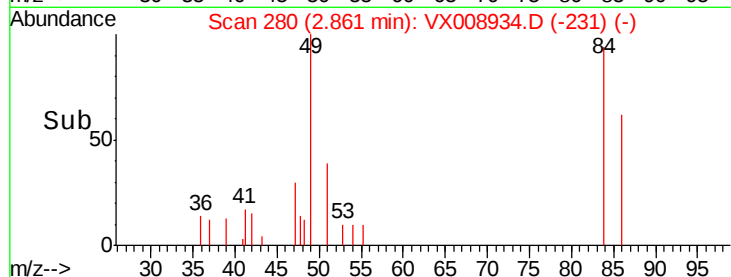
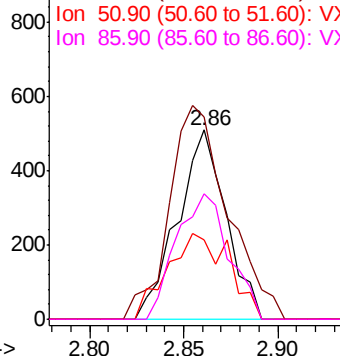
#20
Methvlene Chloride
Concen: 0.333 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX008934.D
Acq: 13 Apr 2019 16:09

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 84 Resp: 914
Ion Ratio Lower Upper
84 100
49 106.9 109.7 164.5#
51 42.0 33.6 50.4
86 66.1 51.4 77.2

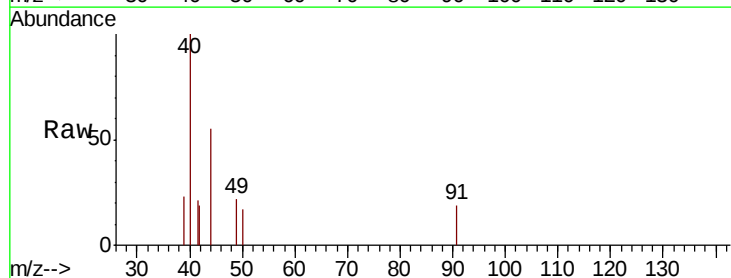


Abundance Ion 83.90 (83.60 to 84.60): VX0
Ion 48.90 (48.60 to 49.60): VX0
Ion 50.90 (50.60 to 51.60): VX0
Ion 85.90 (85.60 to 86.60): VX0

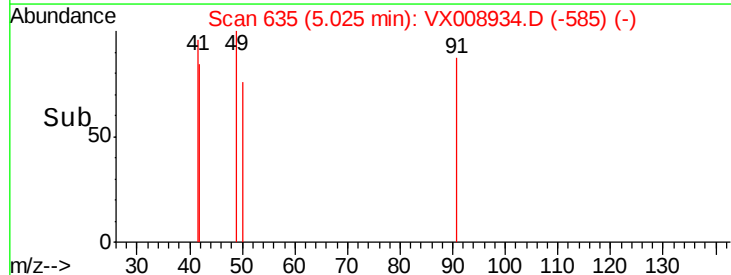
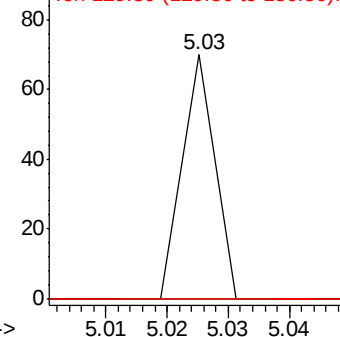


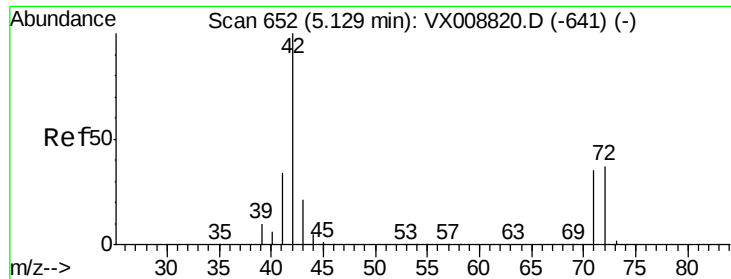
#28
Bromochloromethane
Concen: Below Cal
RT: 5.03 min Scan# 635
Delta R.T. 0.01 min
Lab File: VX008934.D
Acq: 13 Apr 2019 16:09

Tgt Ion: 49 Resp: 26
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.6
130 0.0 49.3 73.9#



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

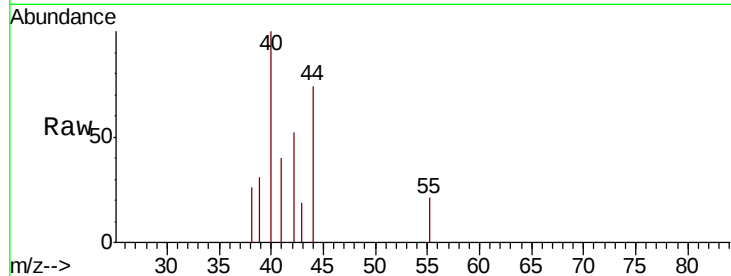




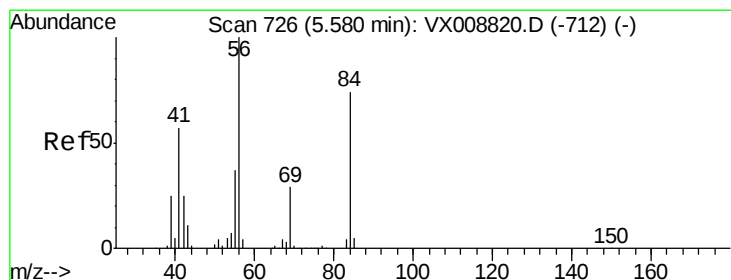
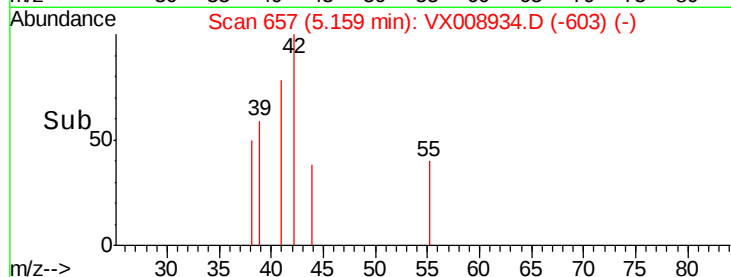
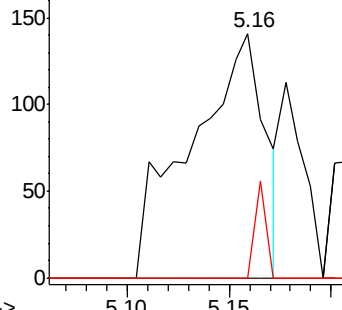
#29
Tetrahydrofuran
Concen: 0.207 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.03 min
Lab File: VX008934.D
Acq: 13 Apr 2019 16:09

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 42 Resp: 355
Ion Ratio Lower Upper
42 100
72 0.0 30.5 45.7#
71 5.6 28.6 43.0#

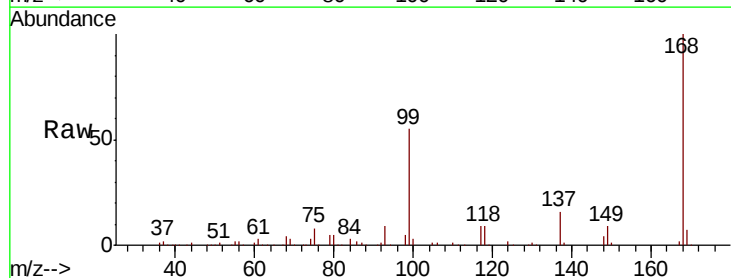


Abundance Ion 42.00 (41.70 to 42.70): VX0
Ion 72.00 (71.70 to 72.70): VX0
Ion 71.00 (70.70 to 71.70): VX0

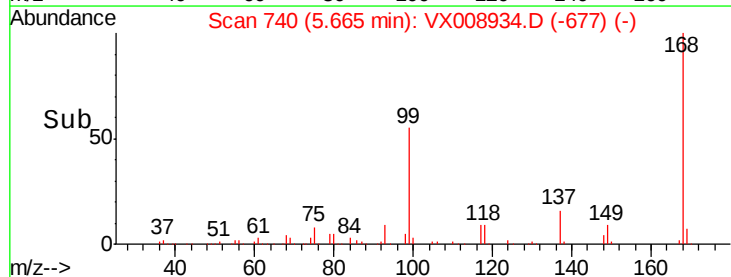
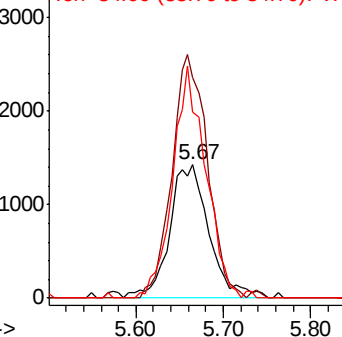


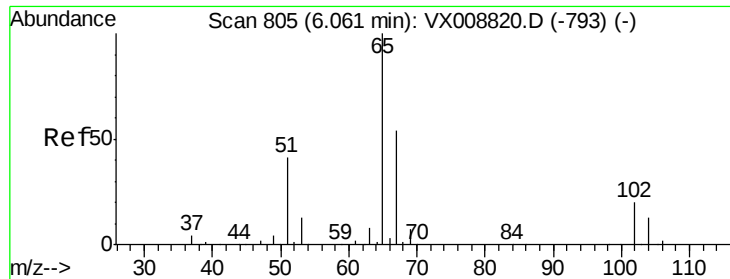
#31
Cyclohexane
Concen: 0.907 ug/l
RT: 5.67 min Scan# 740
Delta R.T. 0.09 min
Lab File: VX008934.D
Acq: 13 Apr 2019 16:09

Tgt Ion: 56 Resp: 4456
Ion Ratio Lower Upper
56 100
69 165.2 22.6 33.8#
84 139.3 59.3 88.9#



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

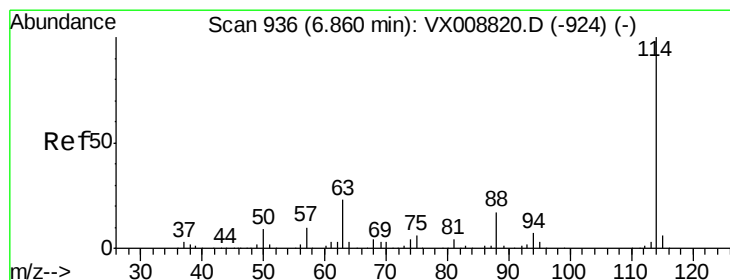
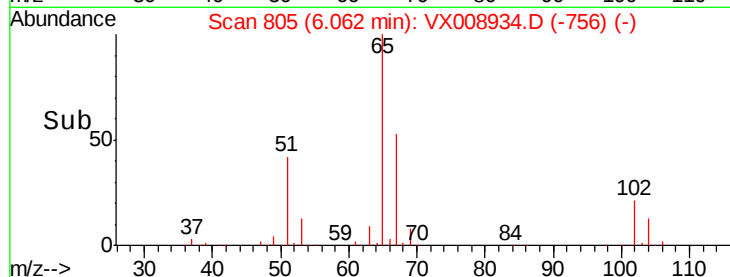
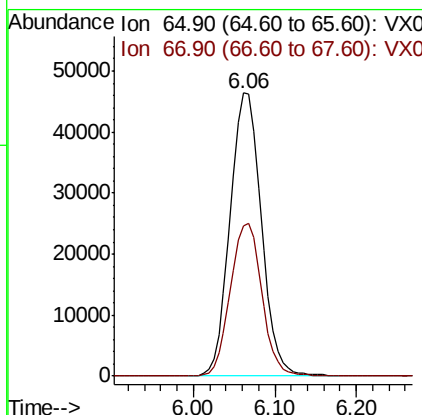
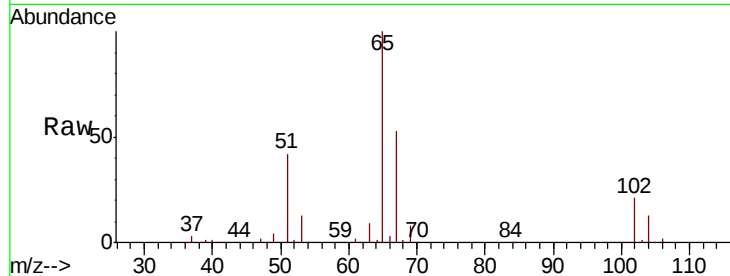




#33
 1,2-Dichloroethane-d4
 Concen: 43.359 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX008934.D
 Acq: 13 Apr 2019 16:09

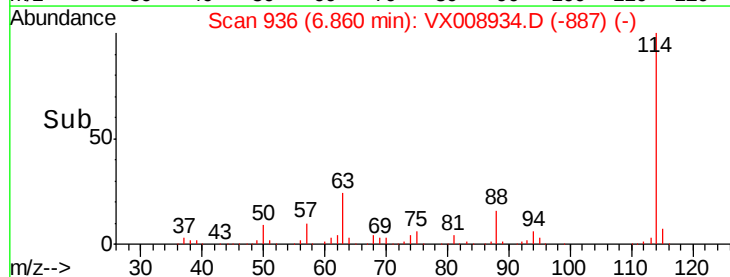
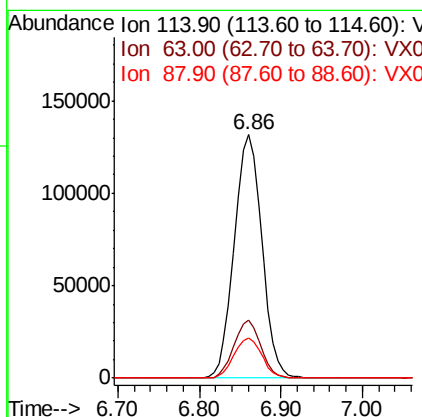
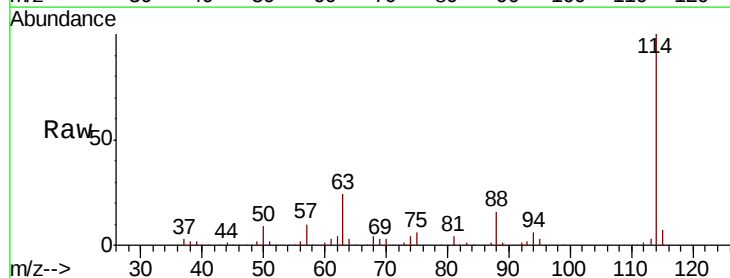
Instrument :
 MSVOA_X
 ClientSampled :

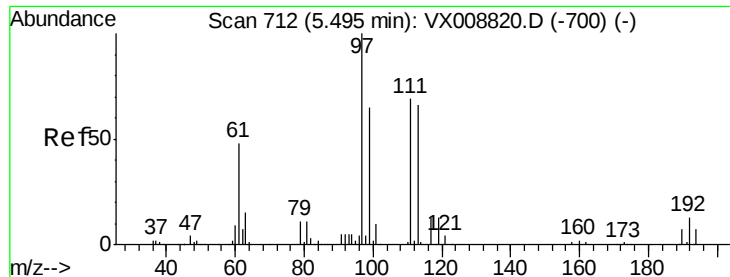
Tot Ion: 65 Resp: 123299
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX008934.D
 Acq: 13 Apr 2019 16:09

Tgt Ion:114 Resp: 308194
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 47.2
 88 16.3 0.0 34.0





#35

Dibromofluoromethane

Concen: 46.903 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008934.D

Acq: 13 Apr 2019 16:09

Instrument :

MSVOA_X

ClientSampleId :

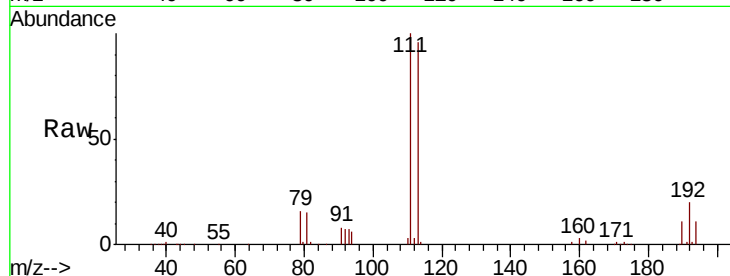
Tot Ion:113 Resp: 92422

Ion Ratio Lower Upper

113 100

111 102.9 83.4 125.2

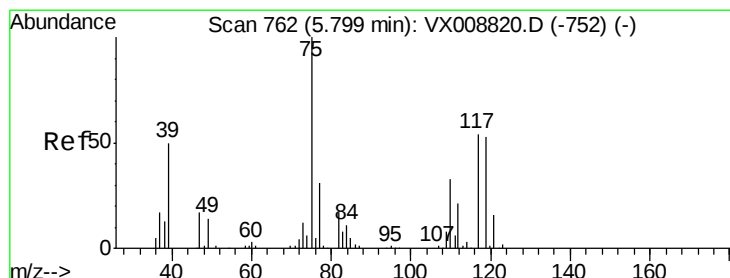
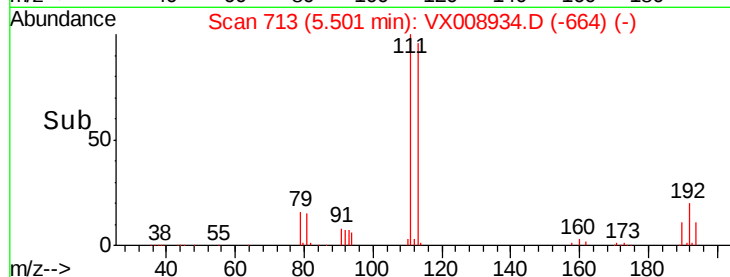
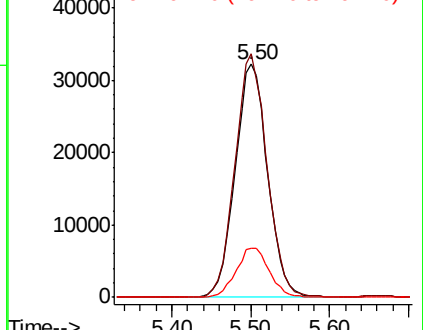
192 21.5 16.1 24.1



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.472 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008934.D

Acq: 13 Apr 2019 16:09

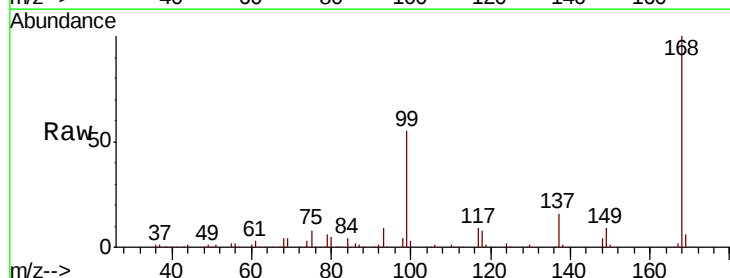
Tgt Ion: 75 Resp: 15066

Ion Ratio Lower Upper

75 100

110 8.1 16.4 49.2#

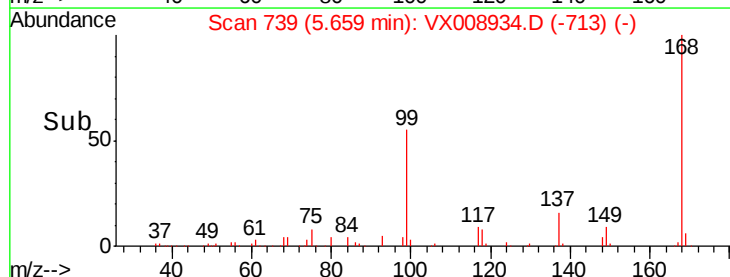
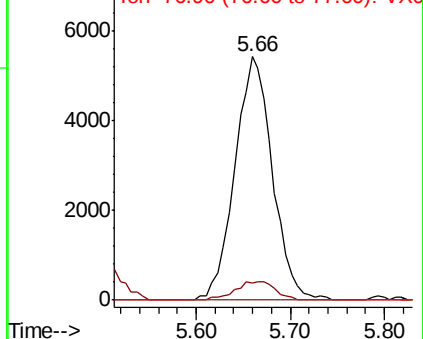
77 0.0 24.7 37.1#

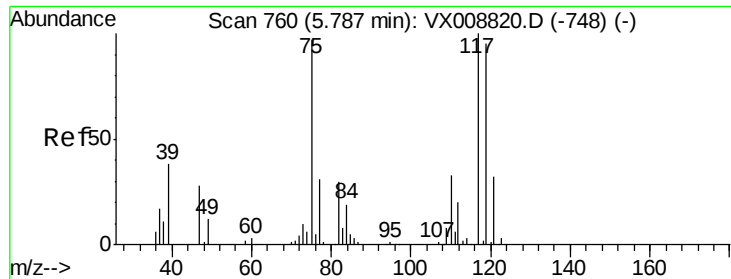


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.519 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008934.D

Acq: 13 Apr 2019 16:09

Instrument :

MSVOA_X

ClientSampleId :

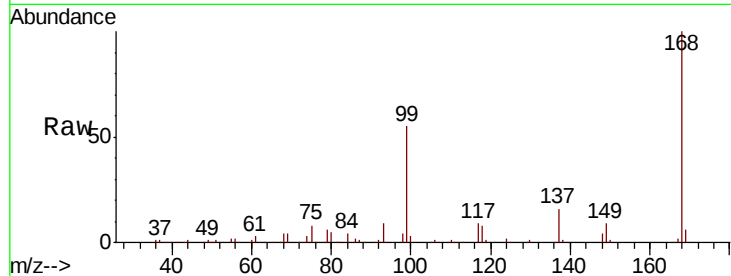
Tot Ion:117 Resp: 18178

Ion Ratio Lower Upper

117 100

119 5.7 75.0 112.6#

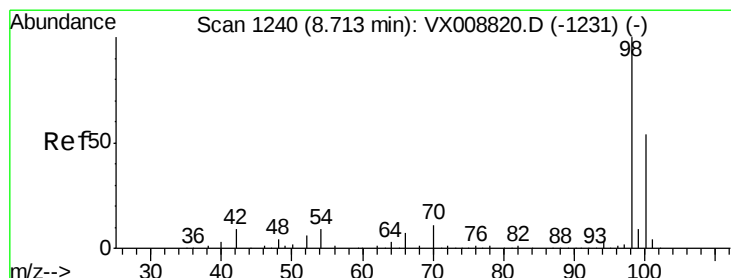
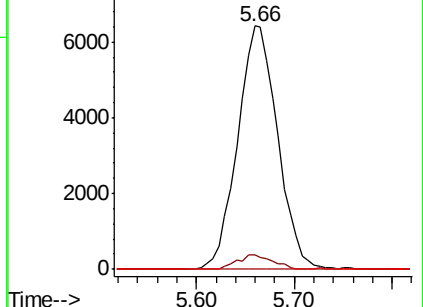
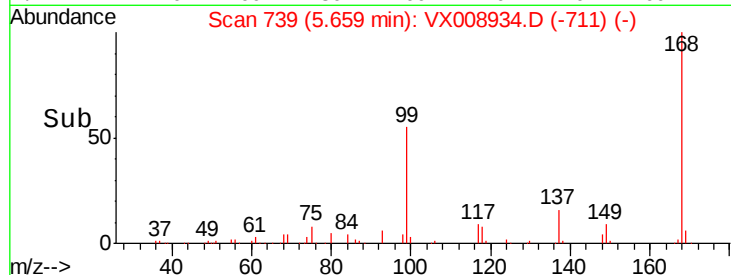
121 0.0 24.3 36.5#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 48.753 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008934.D

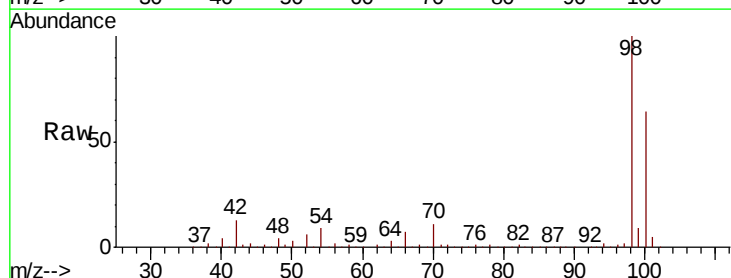
Acq: 13 Apr 2019 16:09

Tgt Ion: 98 Resp: 382511

Ion Ratio Lower Upper

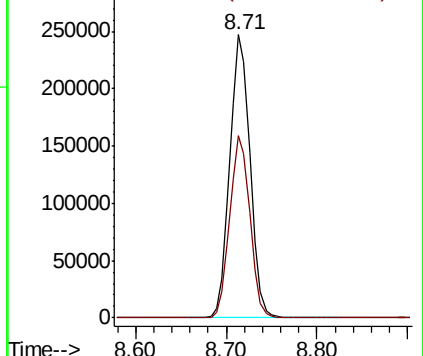
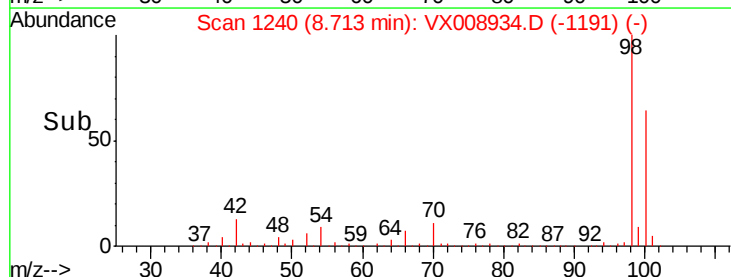
98 100

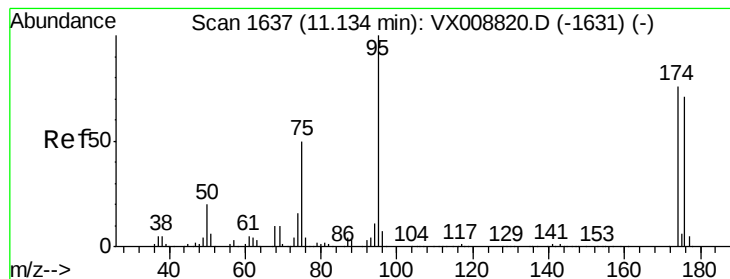
100 64.0 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.328 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008934.D

Acq: 13 Apr 2019 16:09

Instrument :

MSVOA_X

ClientSampleId :

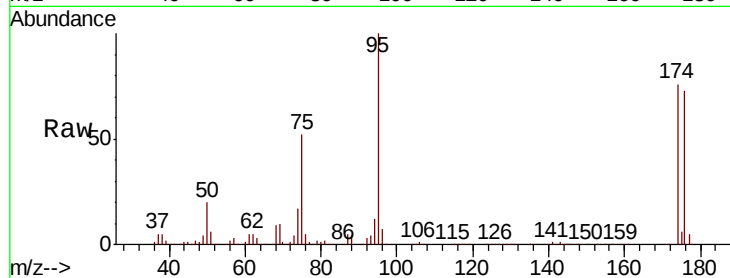
Tot Ion: 95 Resp: 126115

Ion Ratio Lower Upper

95 100

174 80.0 0.0 151.8

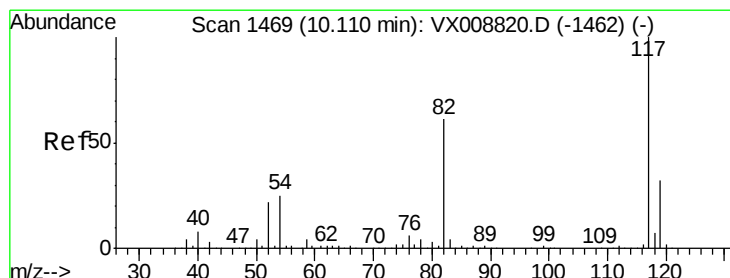
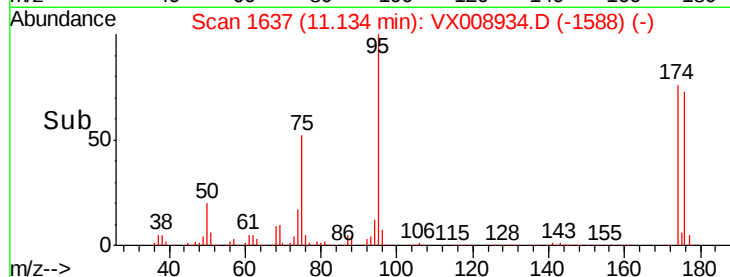
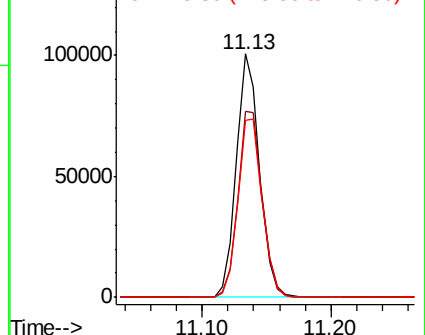
176 77.0 0.0 145.8



Abundance Ion 94.90 (94.60 to 95.60): VX008820.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX008820.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX008820.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX008934.D

Acq: 13 Apr 2019 16:09

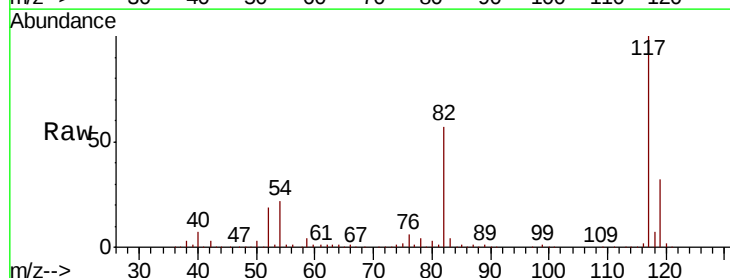
Tgt Ion: 117 Resp: 264929

Ion Ratio Lower Upper

117 100

82 57.3 49.6 74.4

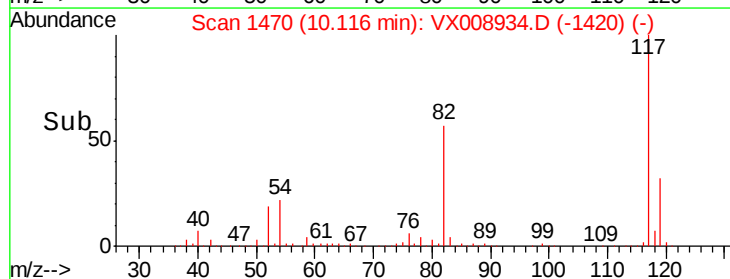
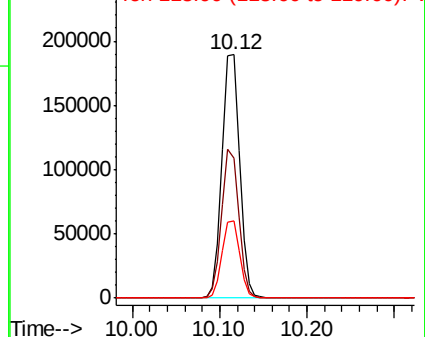
119 31.8 25.0 37.4

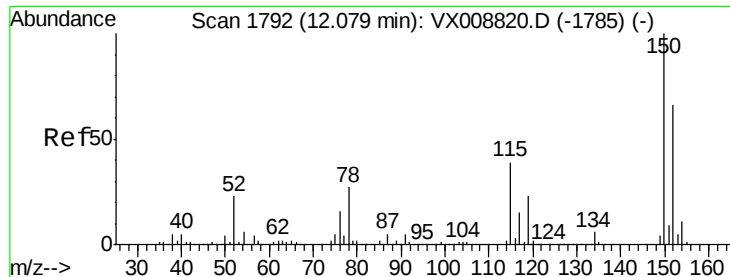


Abundance Ion 116.90 (116.60 to 117.60): VX008820.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008820.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008820.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: VX008934.D

Acq: 13 Apr 2019 16:09

Instrument :

MSVOA_X

ClientSampleId :

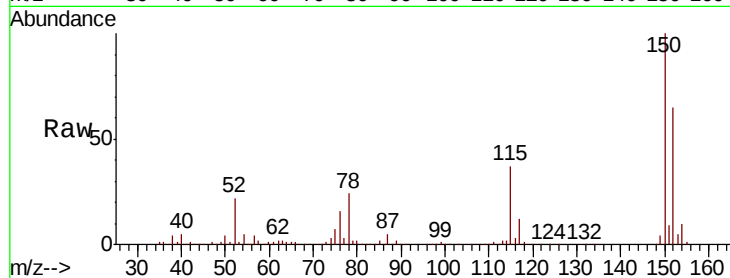
Tot Ion:152 Resp: 112362

Ion Ratio Lower Upper

152 100

115 59.2 43.5 130.5

150 155.3 0.0 348.8

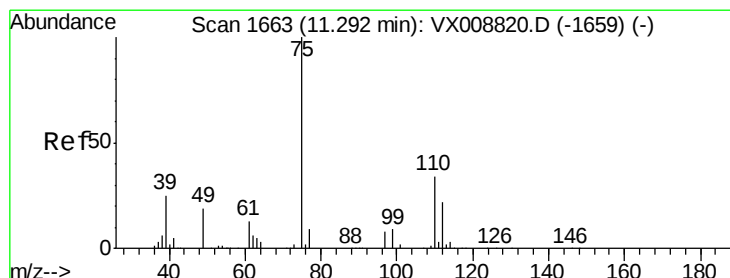
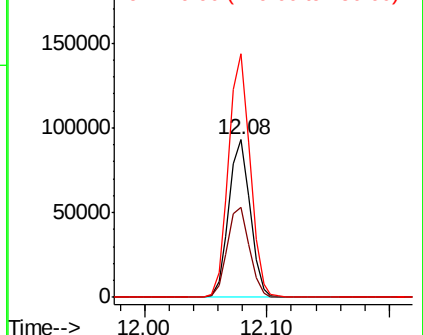
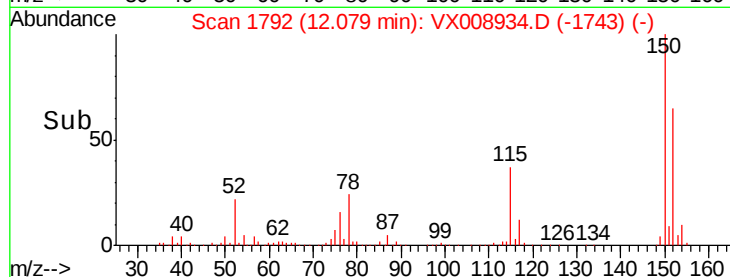


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 20.725 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008934.D

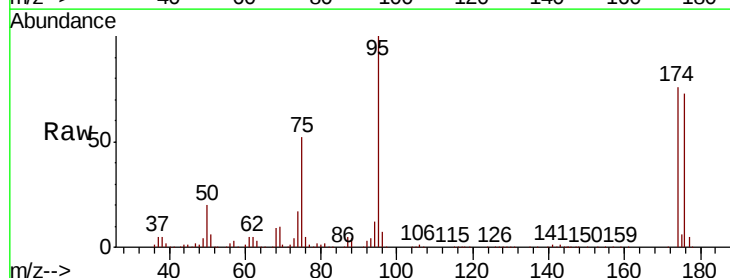
Acq: 13 Apr 2019 16:09

Tgt Ion: 75 Resp: 63971

Ion Ratio Lower Upper

75 100

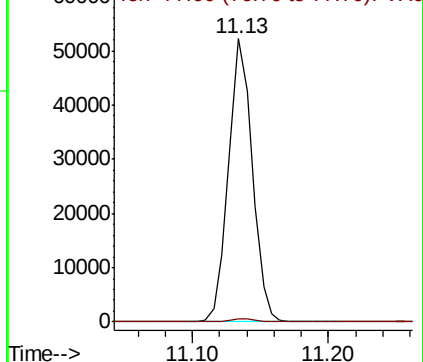
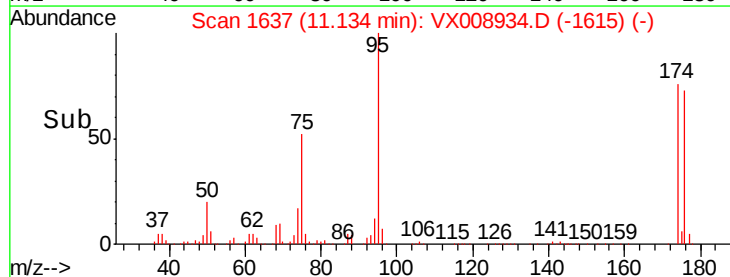
77 1.2 22.3 66.8#

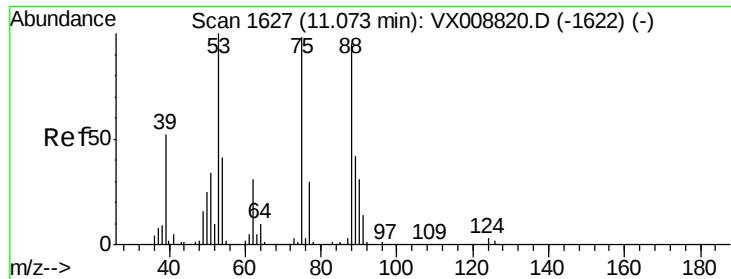


Abundance

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: 57.129 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008934.D

Acq: 13 Apr 2019 16:09

Instrument :

MSVOA_X

ClientSampleId :

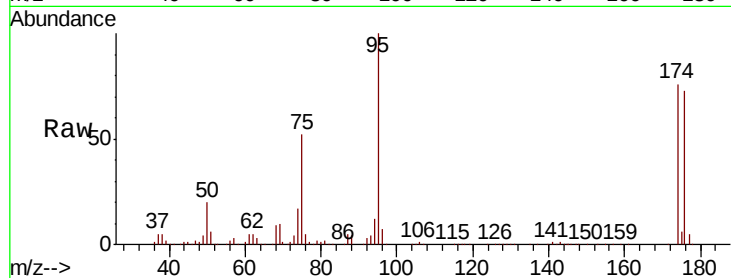
Tot Ion: 75 Resp: 63971

Ion Ratio Lower Upper

75 100

53 0.1 81.3 121.9#

89 0.0 35.6 53.4#



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

