

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041219\
 Data File : VX008912.D
 Acq On : 13 Apr 2019 02:02
 Operator : JC/SP
 Sample : K2367-05
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 S8-0707

Quant Time: Apr 13 05:05:55 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	5.67	168	194084	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	313646	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	271681	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	114766	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	130110	45.96	ug/l	0.00
Spiked Amount			Recovery	=	91.92%	
35) Dibromofluoromethane	5.50	113	94232	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	
50) Toluene-d8	8.71	98	394549	49.41	ug/l	0.00
Spiked Amount			Recovery	=	98.82%	
62) 4-Bromofluorobenzene	11.13	95	129649	45.79	ug/l	0.00
Spiked Amount			Recovery	=	91.58%	

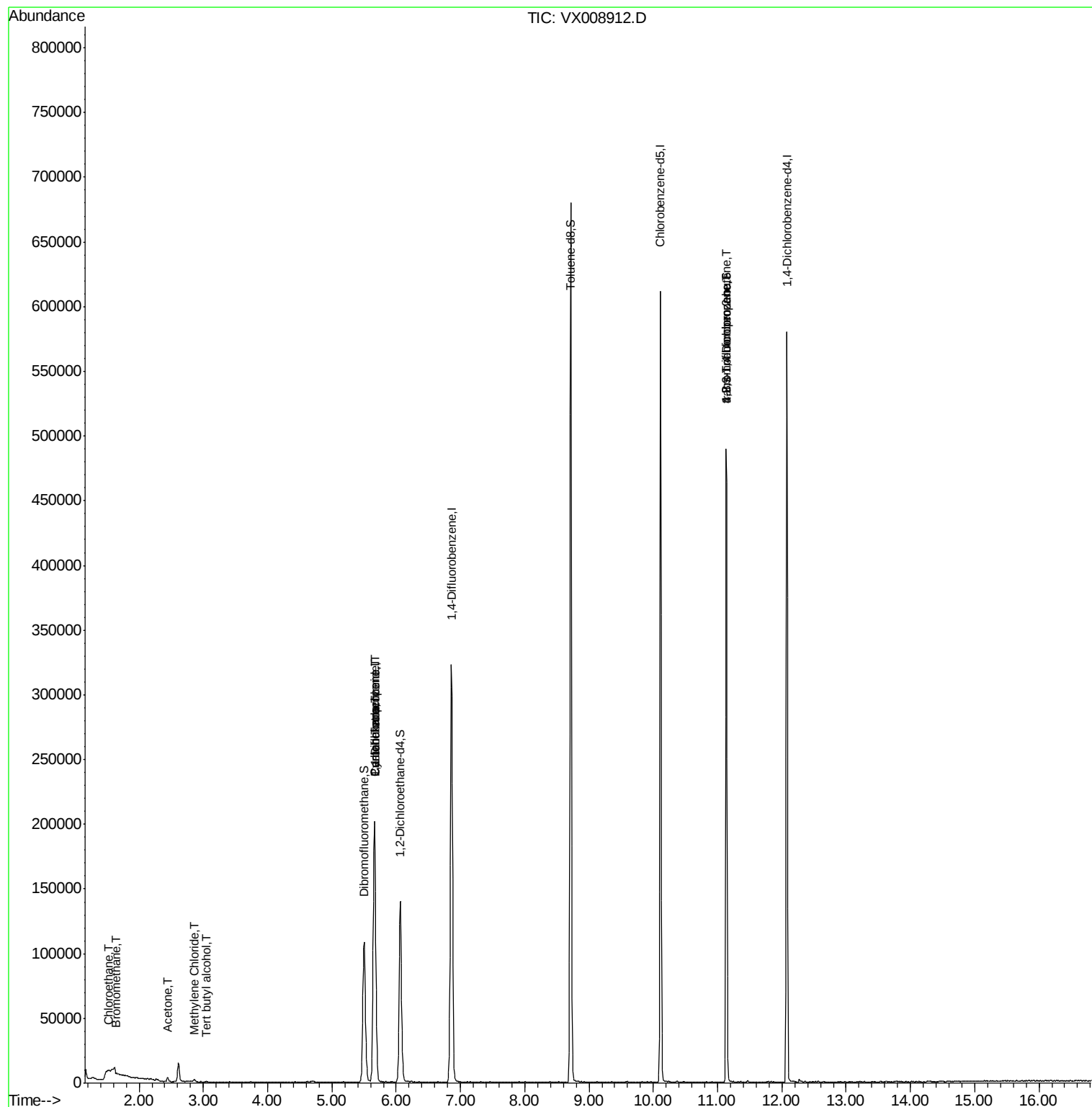
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.33	50	315	Below Cal	#	57
5) Bromomethane	1.65	94	219	2.027	ug/l #	46
6) Chloroethane	1.52	64	38544	21.653	ug/l #	55
11) Tert butyl alcohol	3.04	59	259	0.391	ug/l #	88
16) Acetone	2.45	43	3695	2.266	ug/l	99
17) Carbon Disulfide	2.57	76	818	Below Cal	#	90
20) Methylene Chloride	2.85	84	669	0.245	ug/l #	88
28) Bromochloromethane	4.95	49	25	Below Cal	#	22
31) Cyclohexane	5.67	56	4337	0.887	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	15443	4.504	ug/l #	51
38) Carbon Tetrachloride	5.66	117	18035	6.356	ug/l #	17
76) 1,2,3-Trichloropropane	11.13	75	66036	20.946	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	66036	57.738	ug/l #	9

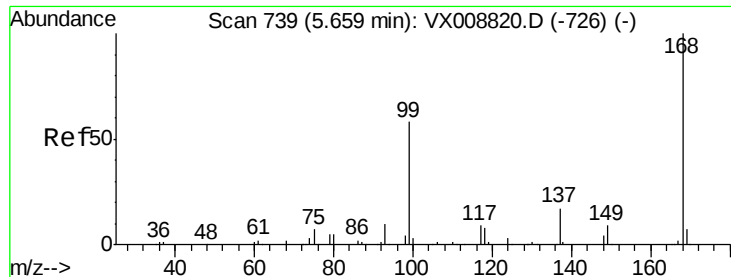
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008912.D

Acq: 13 Apr 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

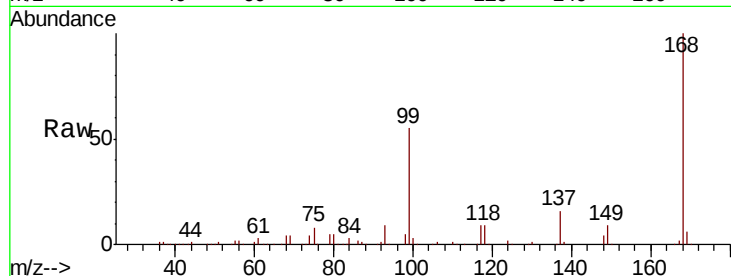
S8-0707

Tot Ion:168 Resp: 194084

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

5.67

80000

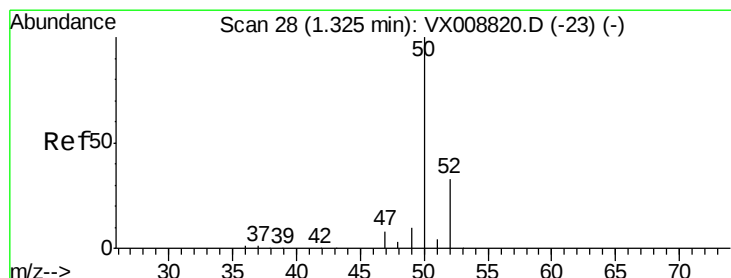
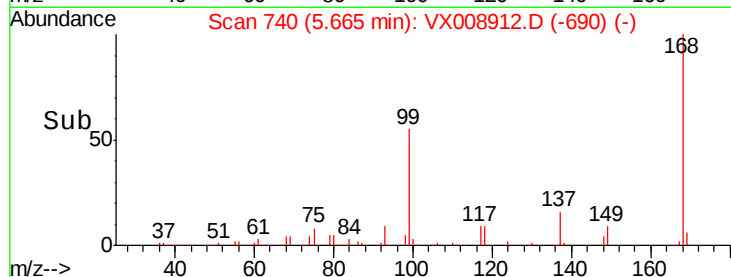
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX008912.D

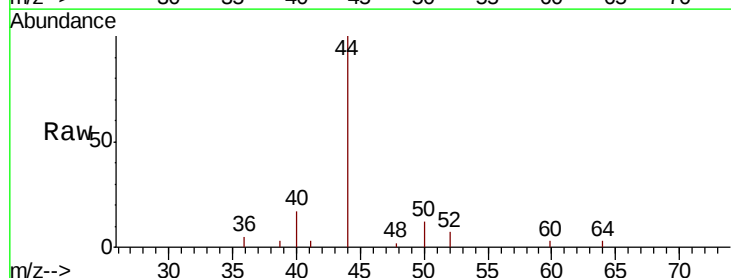
Acq: 13 Apr 2019 02:02

Tgt Ion: 50 Resp: 315

Ion Ratio Lower Upper

50 100

52 56.1 25.8 38.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

300

250

200

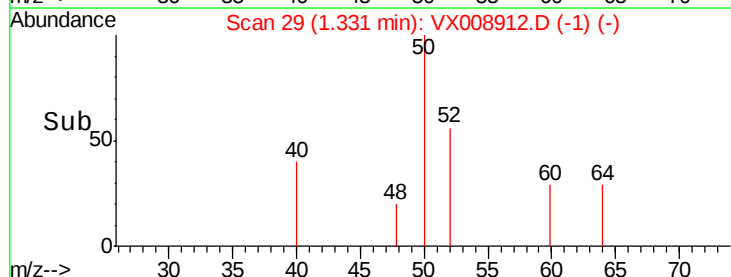
150

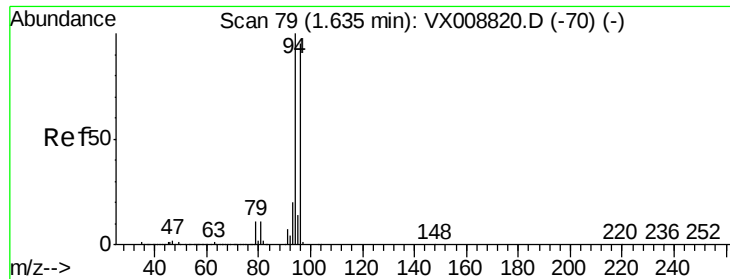
100

50

0

Time--> 1.30 1.32 1.34 1.36





#5

Bromomethane

Concen: 2.027 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008912.D

Acq: 13 Apr 2019 02:02

Instrument :

MSVOA_X

ClientSampled :

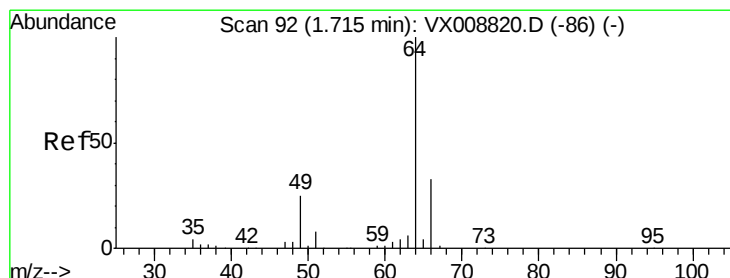
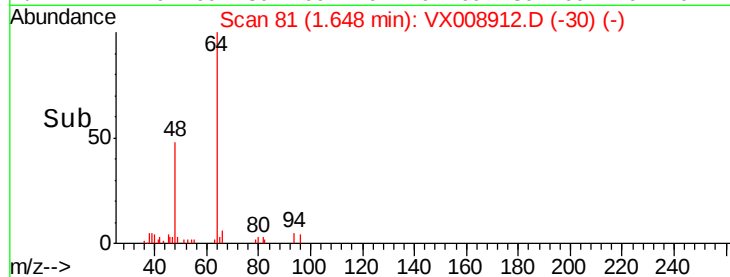
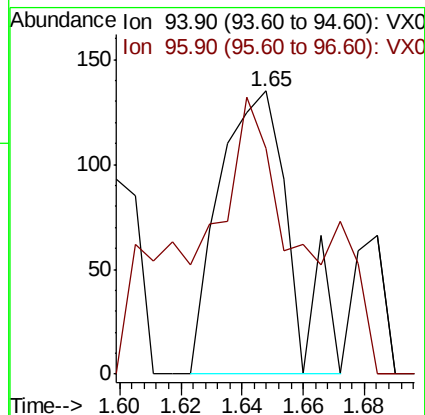
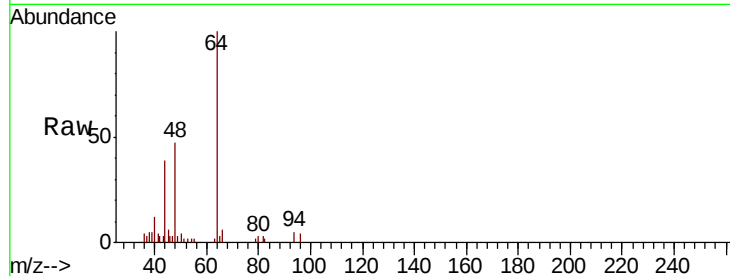
S8-0707

Tot Ion: 94 Resp: 219

Ion Ratio Lower Upper

94 100

96 41.5 75.2 112.8#



#6

Chloroethane

Concen: 21.653 ug/l

RT: 1.52 min Scan# 60

Delta R.T. -0.19 min

Lab File: VX008912.D

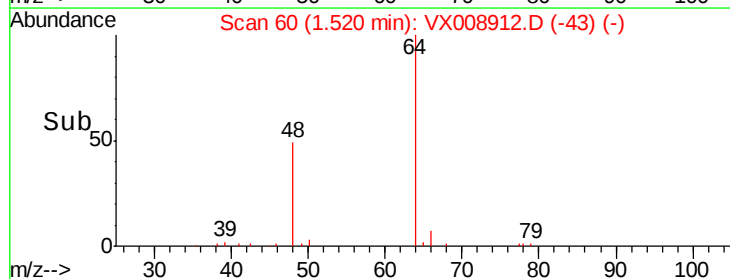
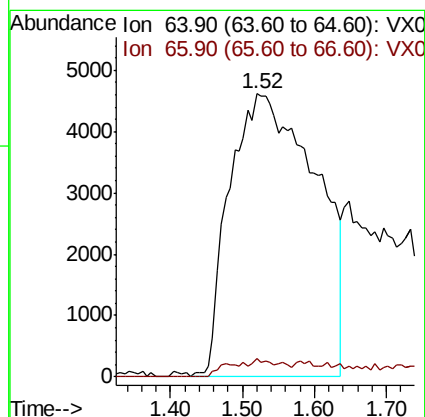
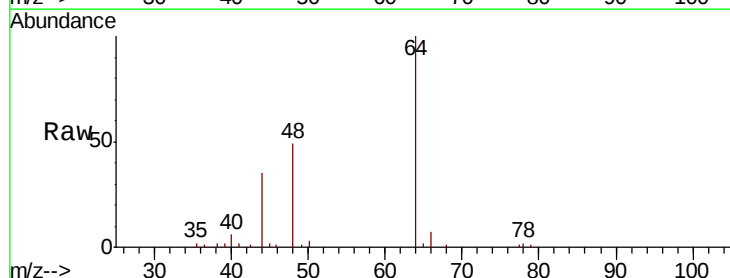
Acq: 13 Apr 2019 02:02

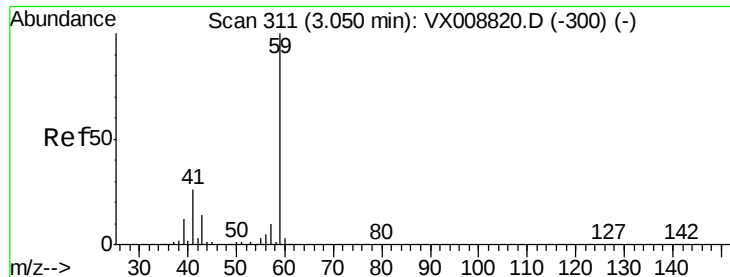
Tgt Ion: 64 Resp: 38544

Ion Ratio Lower Upper

64 100

66 6.6 25.4 38.0#

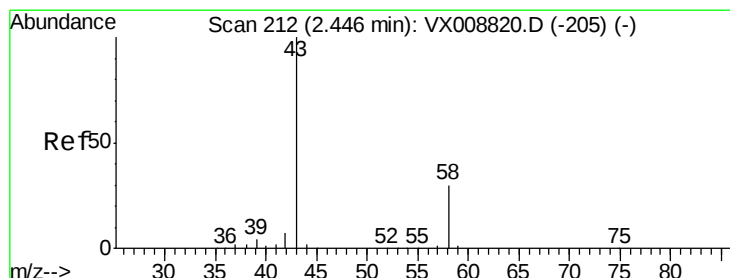
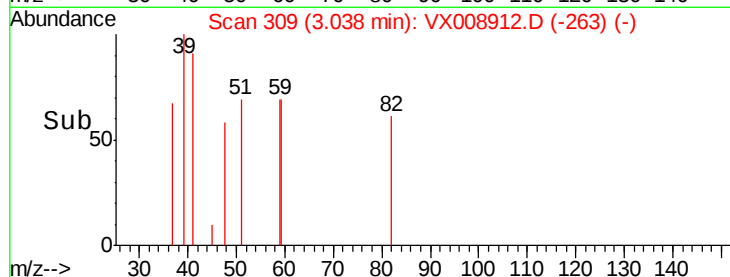
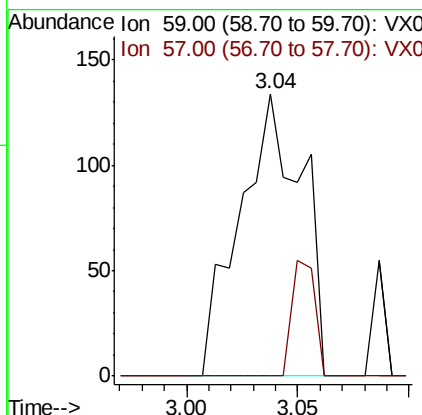
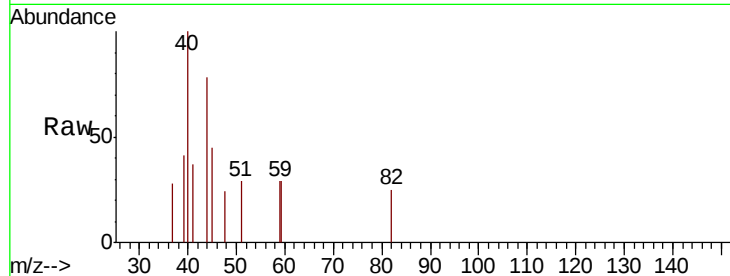




#11
Tert butyl alcohol
Concen: 0.391 ug/l
RT: 3.04 min Scan# 309
Delta R.T. -0.02 min
Lab File: VX008912.D
Acq: 13 Apr 2019 02:02

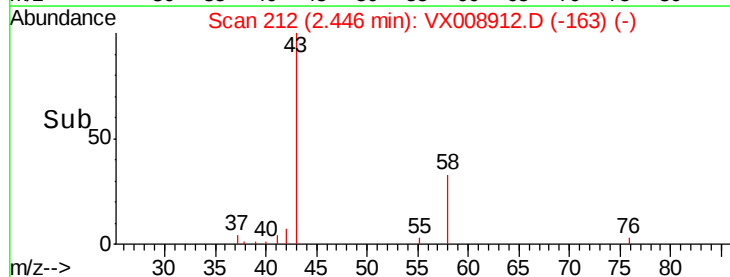
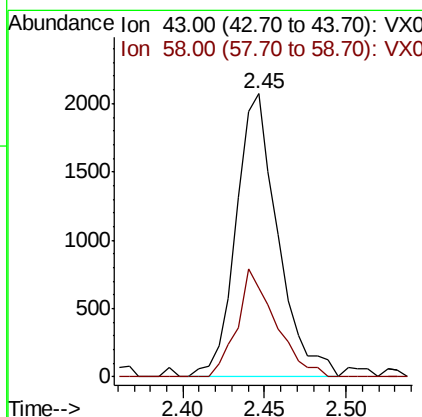
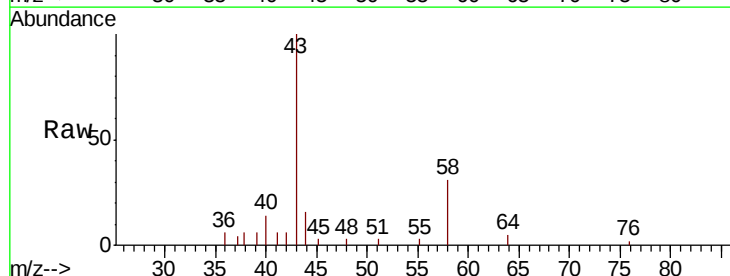
Instrument :
MSVOA_X
ClientSampleId :
S8-0707

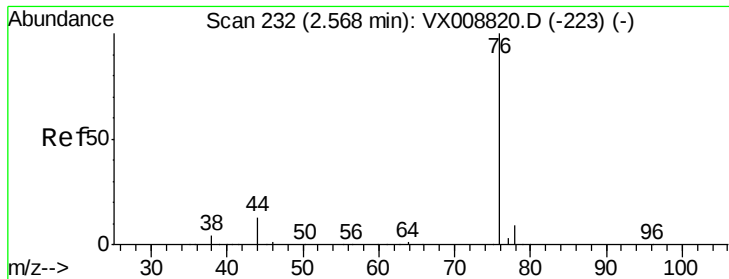
Tot Ion: 59 Resp: 259
Ion Ratio Lower Upper
59 100
57 15.1 8.3 12.5#



#16
Acetone
Concen: 2.266 ug/l
RT: 2.45 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX008912.D
Acq: 13 Apr 2019 02:02

Tgt Ion: 43 Resp: 3695
Ion Ratio Lower Upper
43 100
58 31.4 24.8 37.2





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX008912.D

Acq: 13 Apr 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

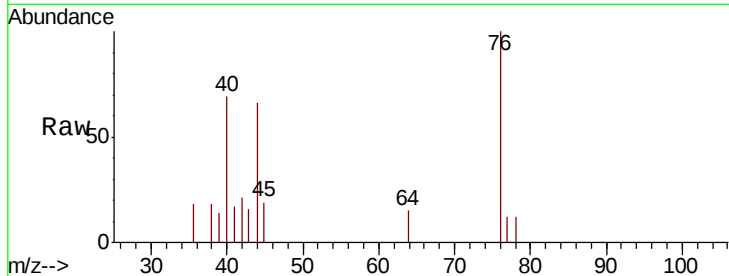
S8-0707

Tot Ion: 76 Resp: 818

Ion Ratio Lower Upper

76 100

78 12.4 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

400

300

200

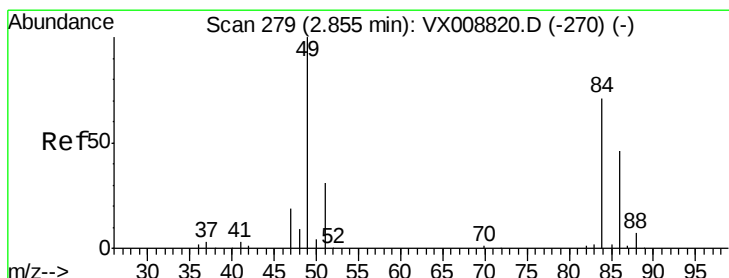
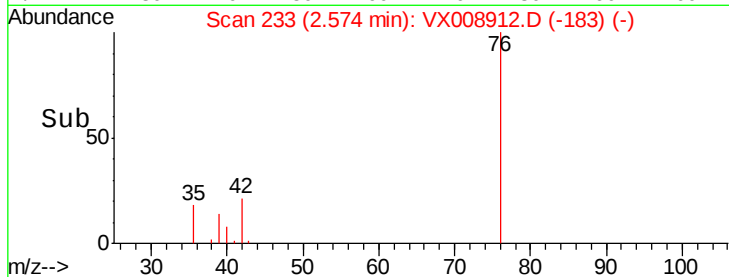
100

0

2.55

2.60

Time-->



#20

Methylene Chloride

Concen: 0.245 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX008912.D

Acq: 13 Apr 2019 02:02

Tgt Ion: 84 Resp: 669

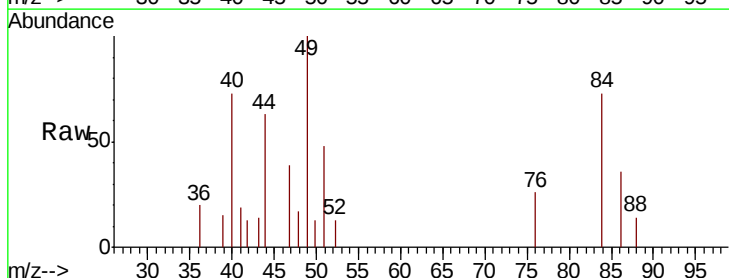
Ion Ratio Lower Upper

84 100

49 137.5 109.7 164.5

51 66.3 33.6 50.4#

86 48.9 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

600

500

400

300

200

100

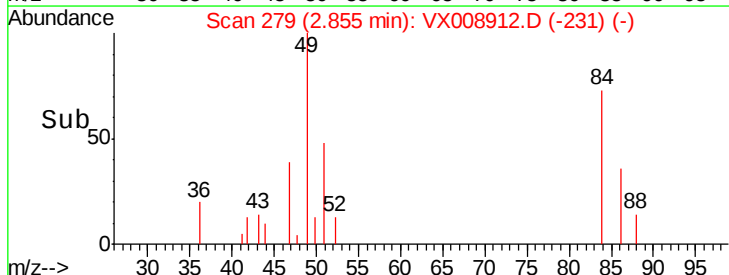
0

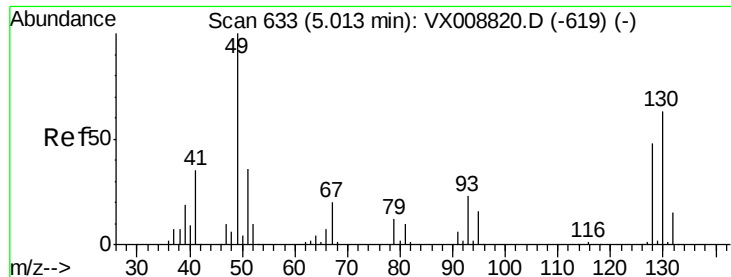
2.80

2.85

2.90

Time-->





#28

Bromochloromethane

Concen: Below Cal

RT: 4.95 min Scan# 623

Delta R.T. -0.07 min

Lab File: VX008912.D

Acq: 13 Apr 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

S8-0707

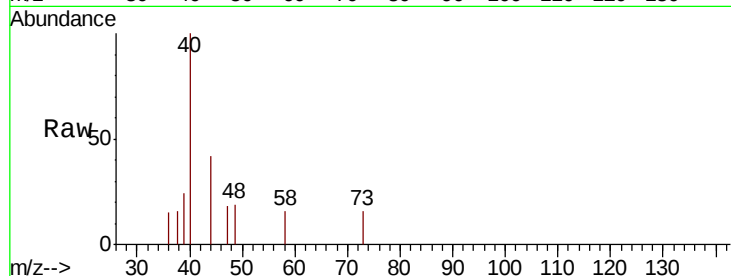
Tot Ion: 49 Resp: 25

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

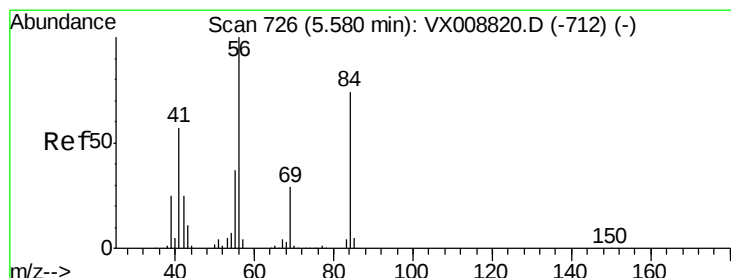
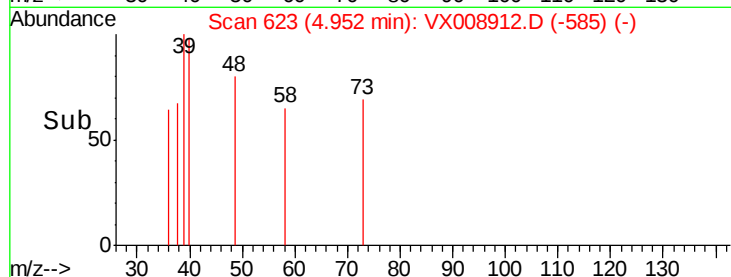
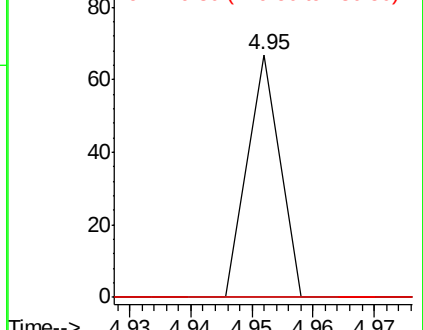
130 0.0 49.3 73.9#



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



#31

Cyclohexane

Concen: 0.887 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008912.D

Acq: 13 Apr 2019 02:02

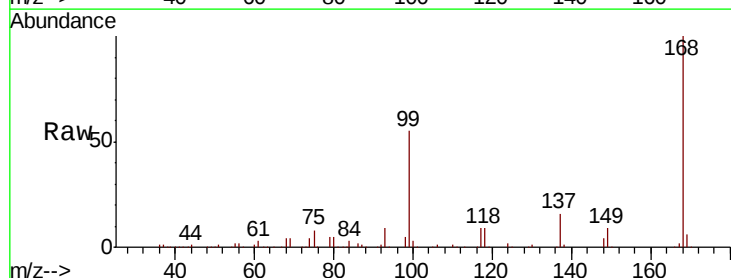
Tgt Ion: 56 Resp: 4337

Ion Ratio Lower Upper

56 100

69 176.4 22.6 33.8#

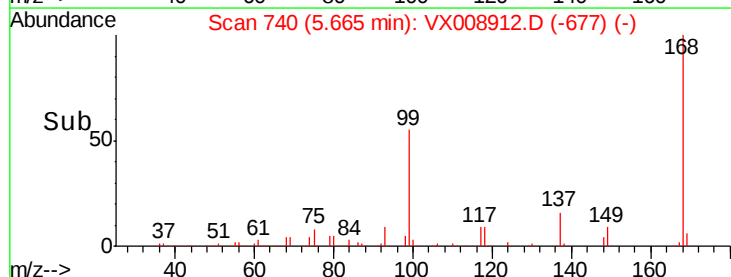
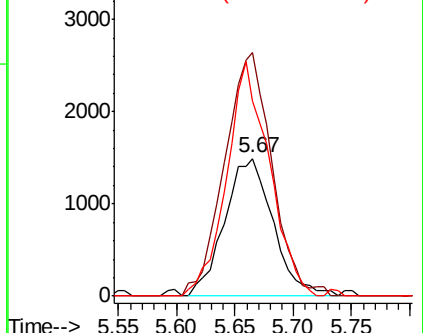
84 136.9 59.3 88.9#

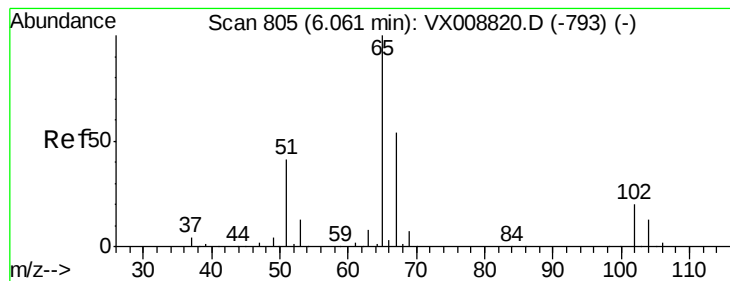


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 45.962 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX008912.D

Acq: 13 Apr 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

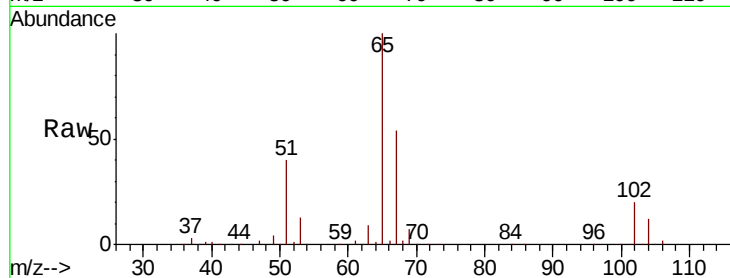
S8-0707

Tot Ion: 65 Resp: 130110

Ion Ratio Lower Upper

65 100

67 53.7 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.06

50000

40000

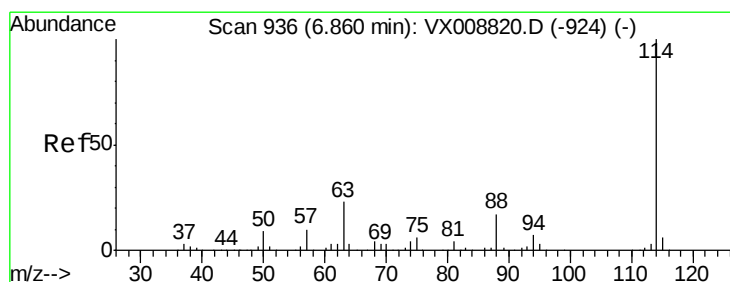
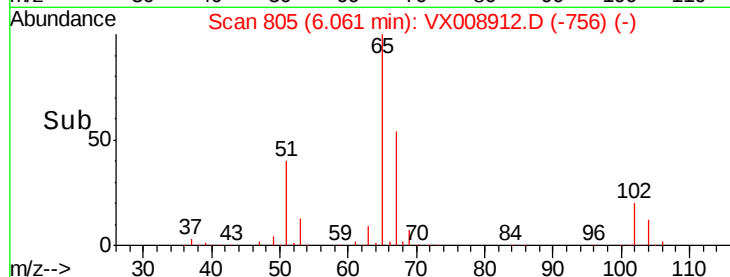
30000

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: VX008912.D

Acq: 13 Apr 2019 02:02

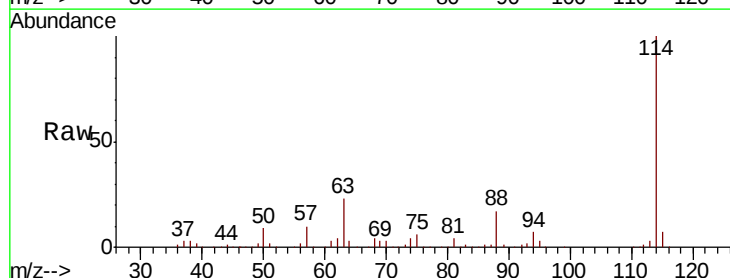
Tgt Ion: 114 Resp: 313646

Ion Ratio Lower Upper

114 100

63 22.9 0.0 47.2

88 16.8 0.0 34.0



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

6.86

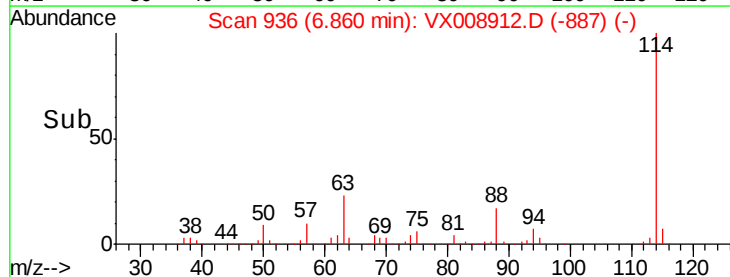
150000

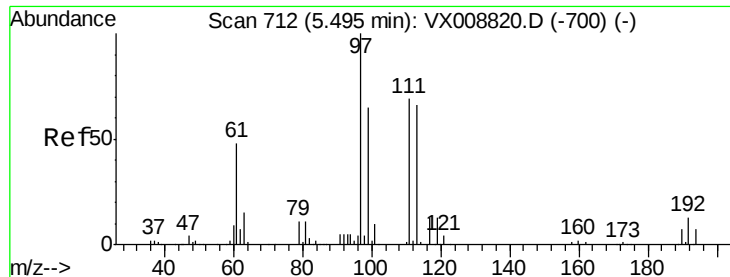
100000

50000

0

Time--> 6.70 6.80 6.90 7.00





#35

Dibromofluoromethane

Concen: 46.991 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX008912.D

Acq: 13 Apr 2019 02:02

Instrument :

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ClientSampleId :

S8-0707

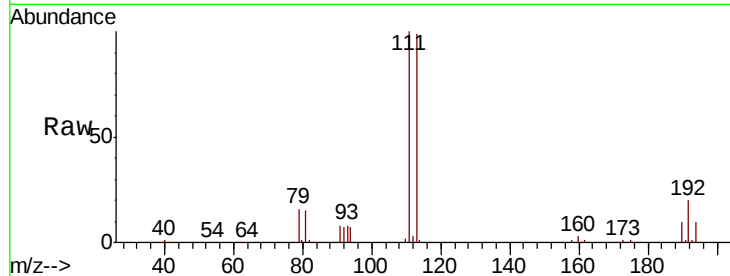
Tot Ion:113 Resp: 94232

Ion Ratio Lower Upper

113 100

111 102.6 83.4 125.2

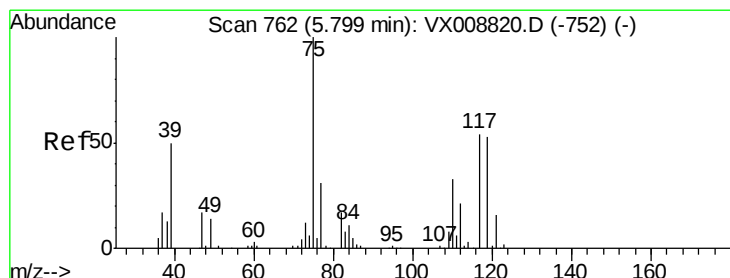
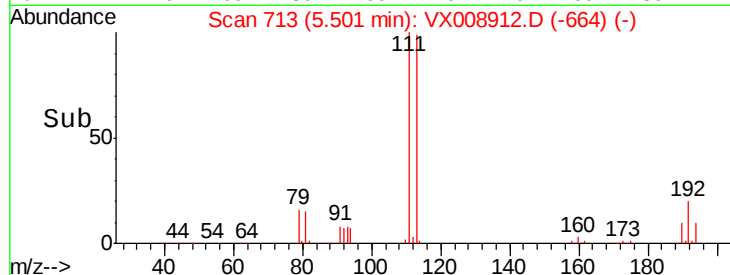
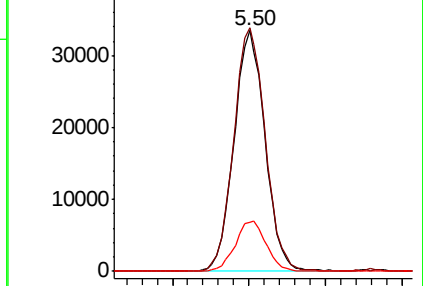
192 20.7 16.1 24.1



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: 4.504 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008912.D

Acq: 13 Apr 2019 02:02

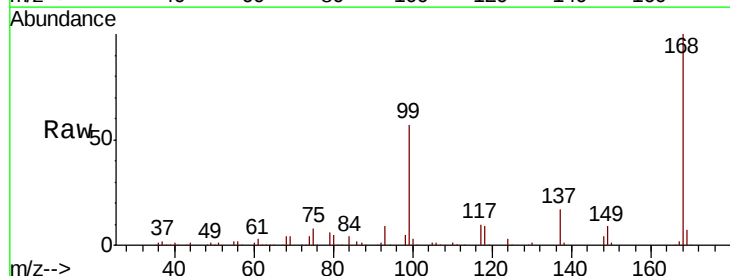
Tgt Ion: 75 Resp: 15443

Ion Ratio Lower Upper

75 100

110 8.7 16.4 49.2#

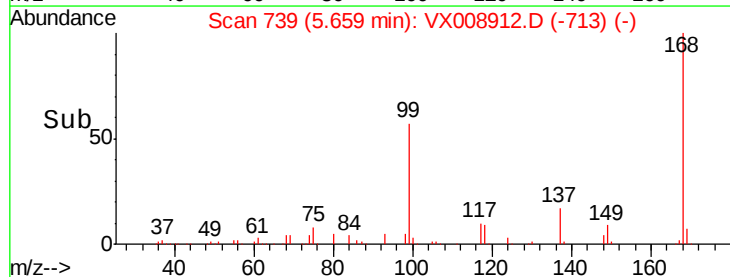
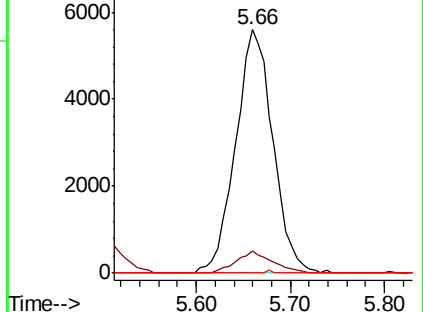
77 0.1 24.7 37.1#

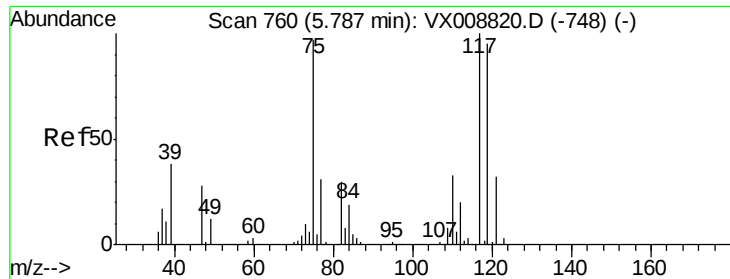


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.356 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX008912.D

Acq: 13 Apr 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

S8-0707

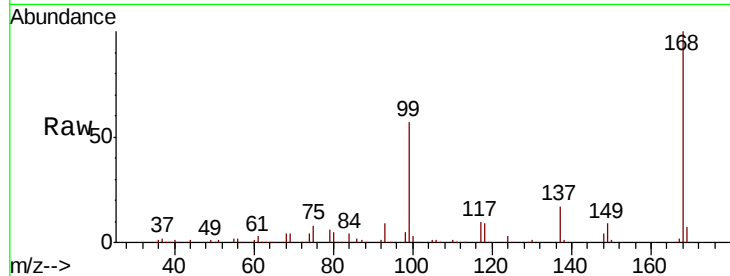
Tot Ion:117 Resp: 18035

Ion Ratio Lower Upper

117 100

119 4.8 75.0 112.6#

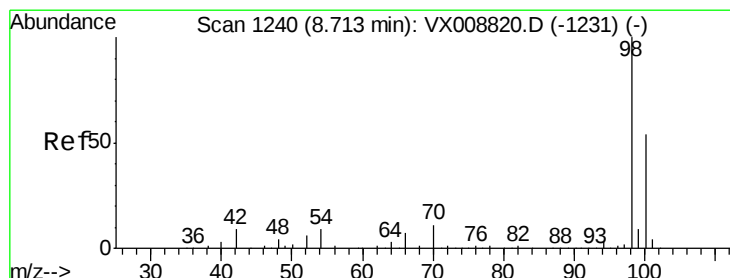
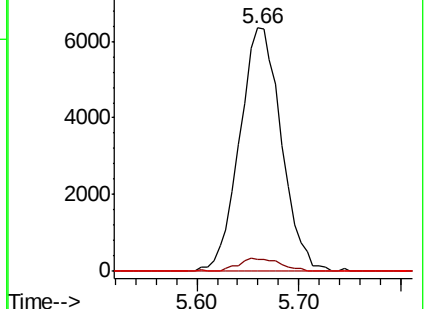
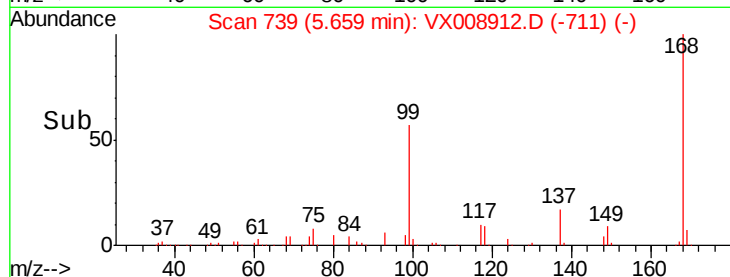
121 0.0 24.3 36.5#



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: 49.413 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX008912.D

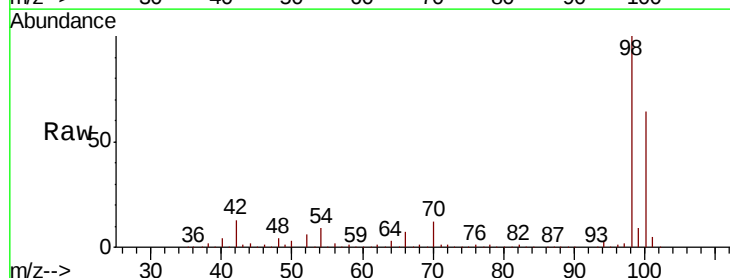
Acq: 13 Apr 2019 02:02

Tgt Ion: 98 Resp: 394549

Ion Ratio Lower Upper

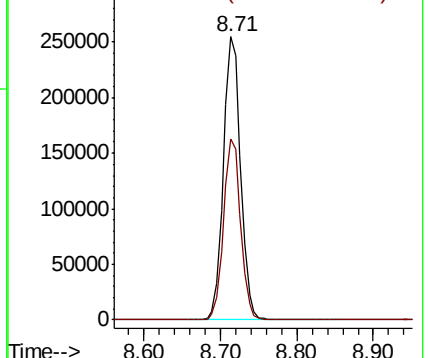
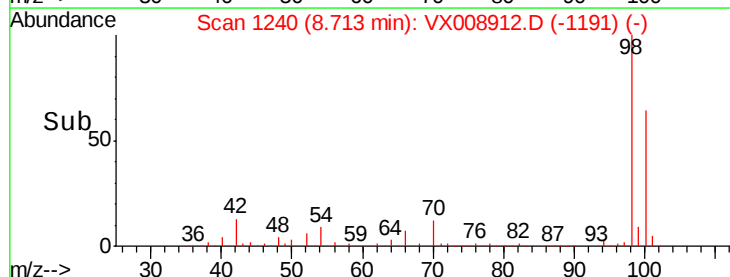
98 100

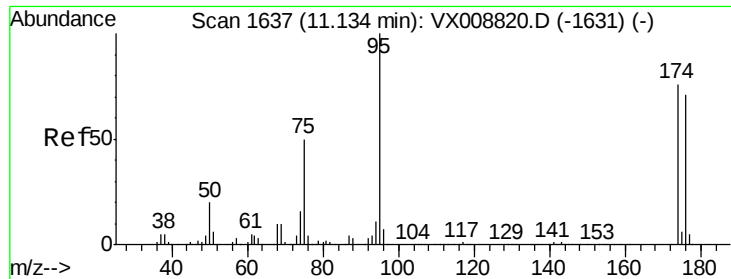
100 63.6 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 45.788 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008912.D

Acq: 13 Apr 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

S8-0707

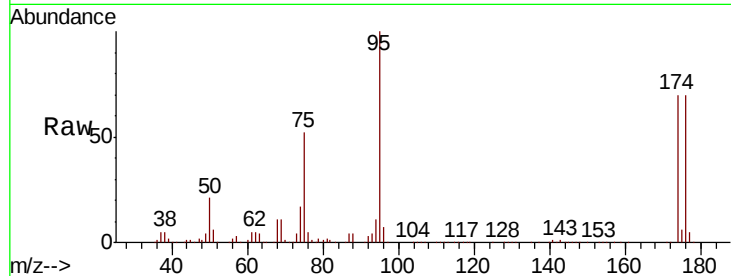
Tot Ion: 95 Resp: 129649

Ion Ratio Lower Upper

95 100

174 78.1 0.0 151.8

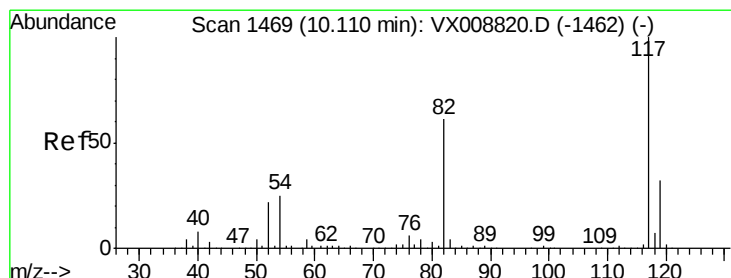
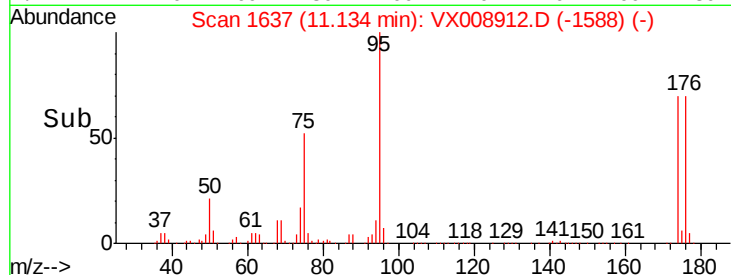
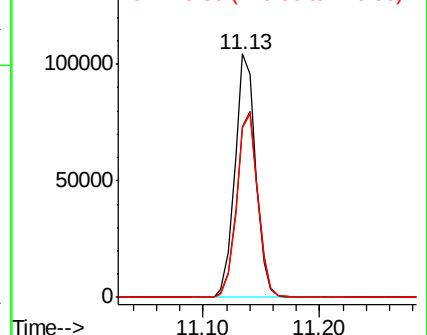
176 76.3 0.0 145.8



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: VX008912.D

Acq: 13 Apr 2019 02:02

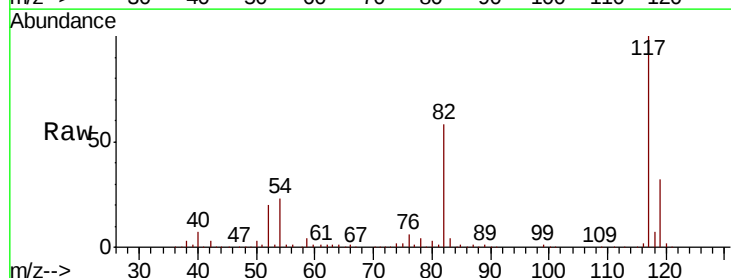
Tgt Ion: 117 Resp: 271681

Ion Ratio Lower Upper

117 100

82 57.9 49.6 74.4

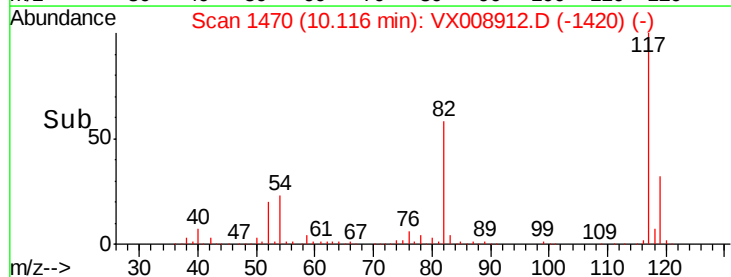
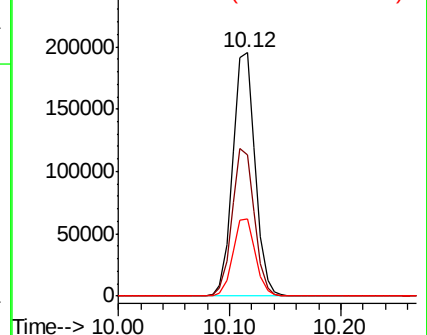
119 31.7 25.0 37.4

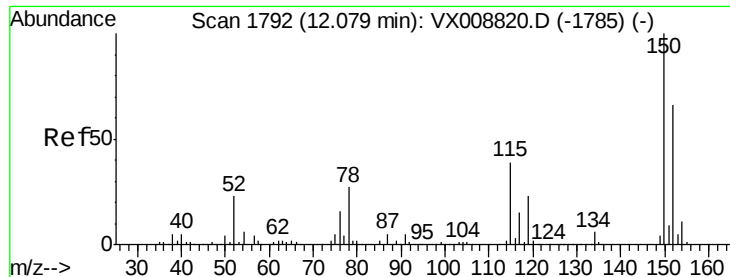


Abundance Ion 116.90 (116.60 to 117.60): VX008820.D (-1462) (-)

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: VX008912.D

Acq: 13 Apr 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

S8-0707

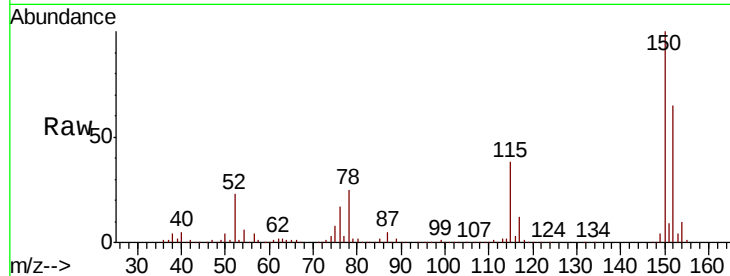
Tot Ion:152 Resp: 114766

Ion Ratio Lower Upper

152 100

115 59.3 43.5 130.5

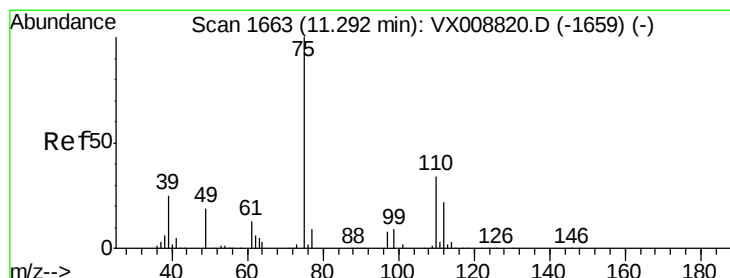
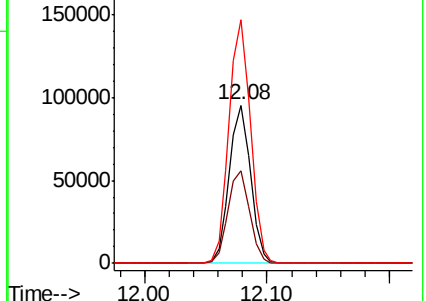
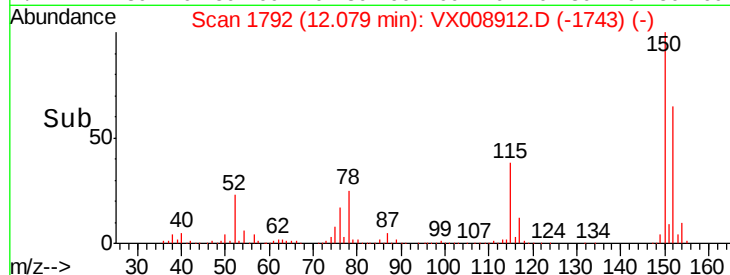
150 156.0 0.0 348.8



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: 20.946 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008912.D

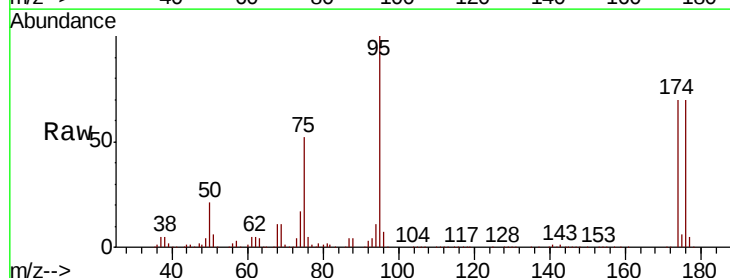
Acq: 13 Apr 2019 02:02

Tgt Ion: 75 Resp: 66036

Ion Ratio Lower Upper

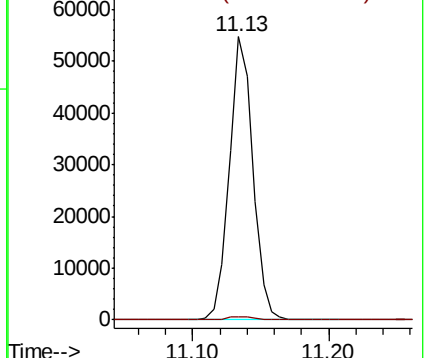
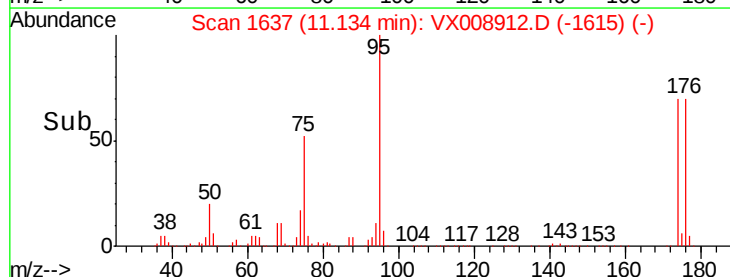
75 100

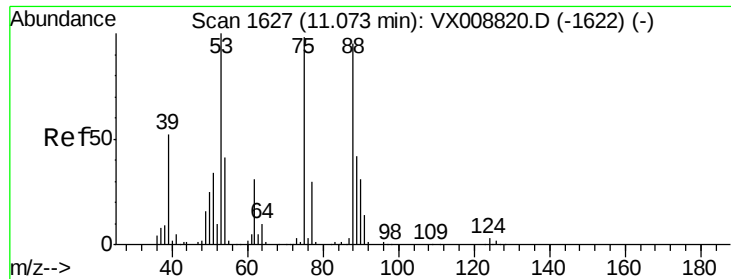
77 1.3 22.3 66.8#



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: 57.738 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008912.D

Acq: 13 Apr 2019 02:02

Instrument :

MSVOA_X

ClientSampleId :

S8-0707

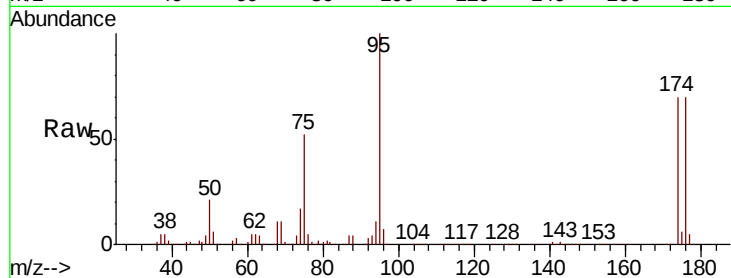
Tot Ion: 75 Resp: 66036

Ion Ratio Lower Upper

75 100

53 0.0 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

