

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071018\
 Data File : VX003309.D
 Acq On : 11 Jul 2018 03:17
 Operator : JC/MD
 Sample : J3914-08
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 NEMH

Quant Time: Jul 11 04:58:48 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X070918W.M
 Quant Title : SW846 8260
 QLast Update : Mon Jul 09 15:24:16 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	267889	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	371216	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	350178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	192419	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	158482	37.59	ug/l	0.00
Spiked Amount			Recovery	=	75.18%	
35) Dibromofluoromethane	5.51	113	139692	35.03	ug/l	0.00
Spiked Amount			Recovery	=	70.06%	
50) Toluene-d8	8.72	98	515483	36.39	ug/l	0.00
Spiked Amount			Recovery	=	72.78%	
62) 4-Bromofluorobenzene	11.14	95	180053	34.40	ug/l	0.00
Spiked Amount			Recovery	=	68.80%	

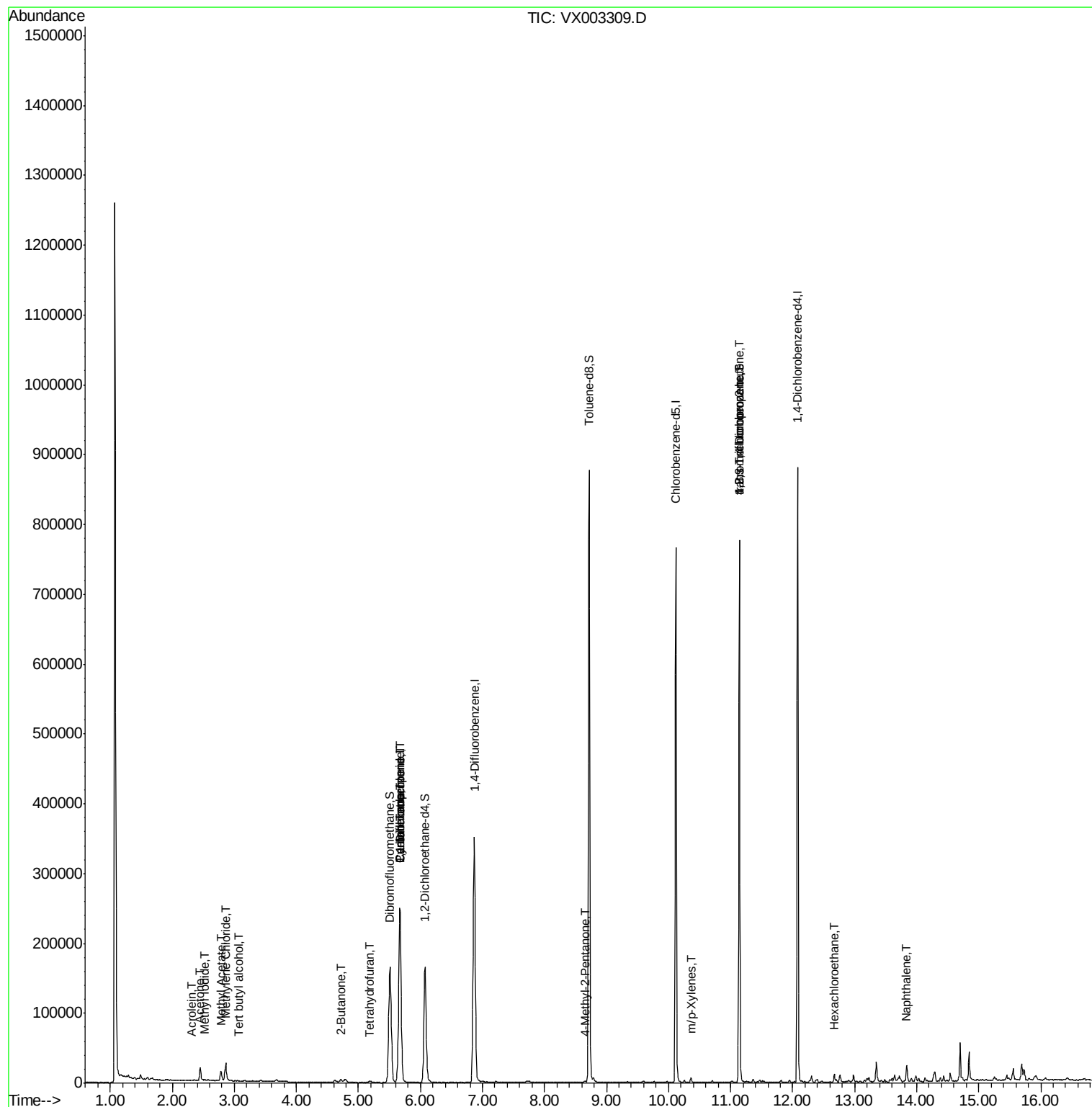
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.65	94	1302	Below Cal	#	67
10) Methyl Iodide	2.52	142	1795	6.09	ug/l	94
11) Tert butyl alcohol	3.07	59	382	0.50	ug/l	# 73
13) Acrolein	2.31	56	262	0.43	ug/l	# 79
16) Acetone	2.45	43	21189	14.16	ug/l	98
18) Methyl Acetate	2.78	43	16511	3.91	ug/l	95
20) Methylene Chloride	2.86	84	11687	3.15	ug/l	91
25) 2-Butanone	4.71	43	7952	3.00	ug/l	95
29) Tetrahydrofuran	5.17	42	632	0.37	ug/l	# 1
31) Cyclohexane	5.67	56	4523	0.82	ug/l	# 1
36) 1,1-Dichloropropene	5.67	75	15681	2.98	ug/l	# 50
38) Carbon Tetrachloride	5.67	117	22986	4.00	ug/l	# 16
51) 4-Methyl-2-Pentanone	8.65	43	1400	0.25	ug/l	94
68) m/p-Xylenes	10.36	106	1656	0.22	ug/l	92
76) 1,2,3-Trichloropropane	11.14	75	88635	21.31	ug/l	# 33
81) trans-1,4-Dichloro-2-buten	11.14	75	88635	69.66	ug/l	# 7
90) Hexachloroethane	12.67	117	655	0.32	ug/l	# 1
95) Naphthalene	13.83	128	15058	0.98	ug/l	96

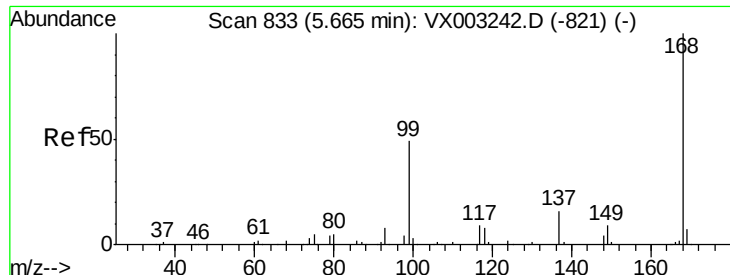
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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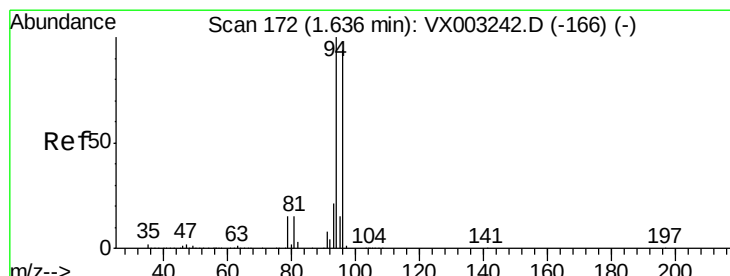
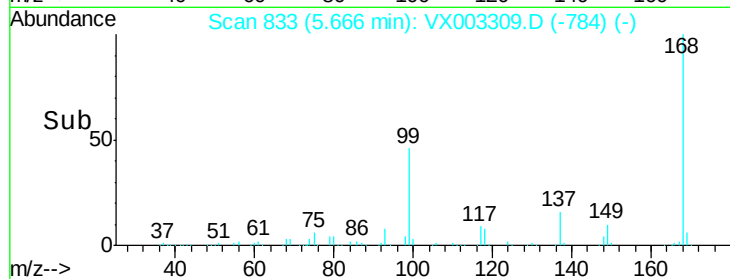
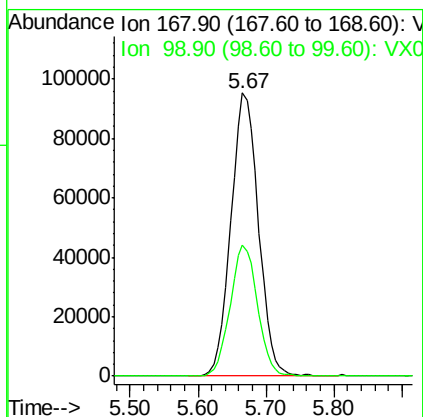
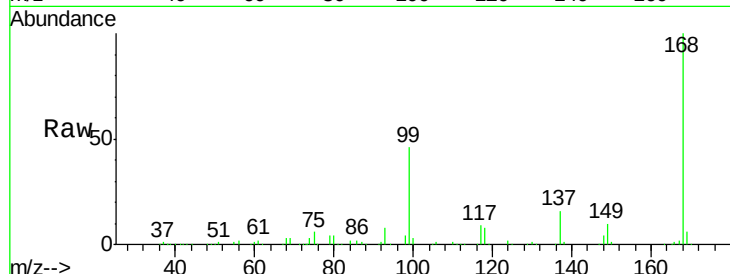




#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.00 min
Lab File: VX003309.D
Acq: 11 Jul 2018 03:17

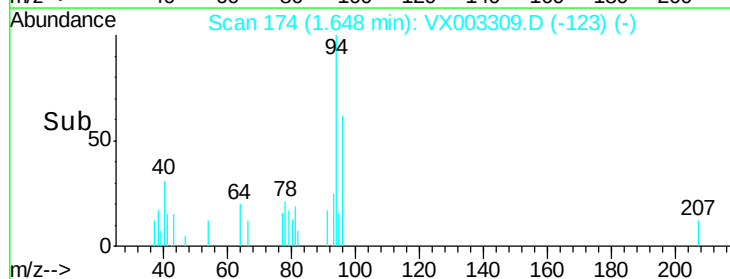
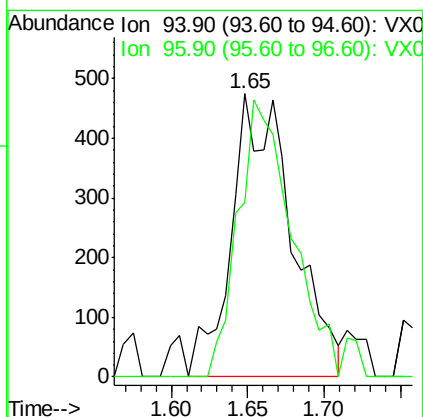
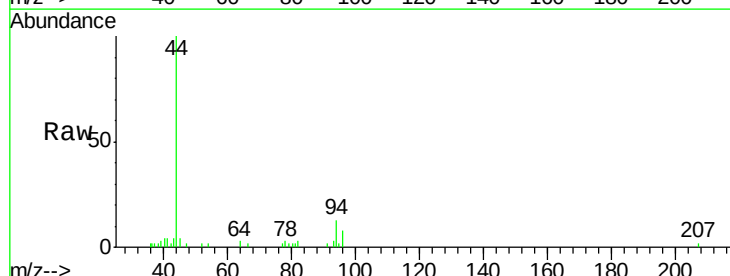
Instrument :
MSVOA_X
ClientSampleId :
NEMH

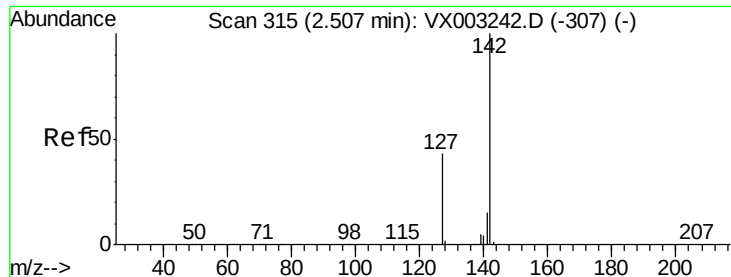
Tot Ion:168 Resp: 267889
Ion Ratio Lower Upper
168 100
99 46.5 39.3 58.9



#5
Bromomethane
Concen: Below Cal
RT: 1.65 min Scan# 174
Delta R.T. 0.01 min
Lab File: VX003309.D
Acq: 11 Jul 2018 03:17

Tgt Ion: 94 Resp: 1302
Ion Ratio Lower Upper
94 100
96 61.6 74.9 112.3#

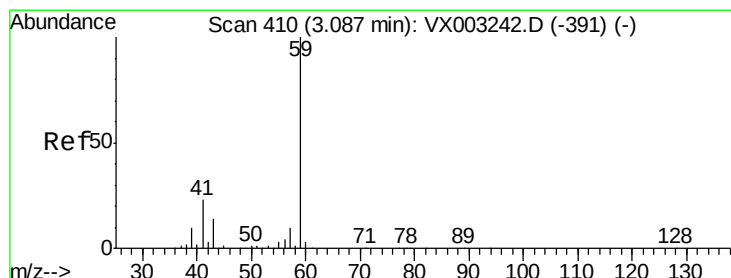
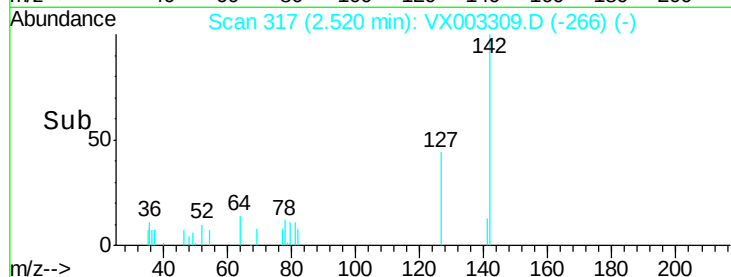
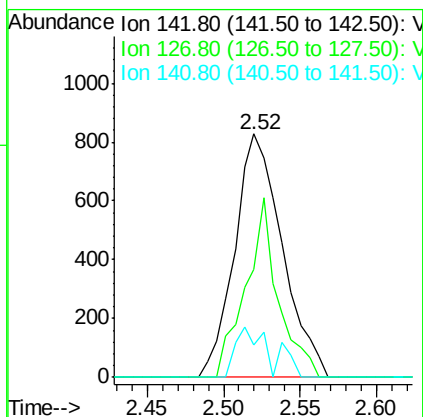
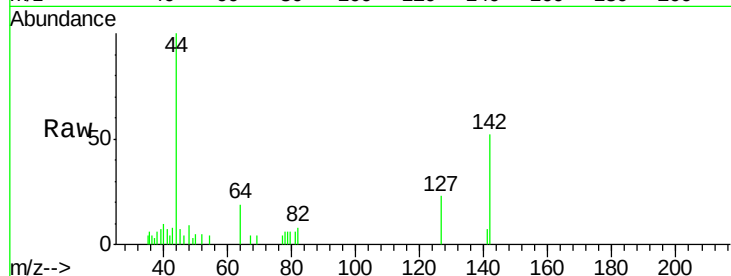




#10
Methvl Iodide
Concen: 6.09 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.01 min
Lab File: VX003309.D
Acq: 11 Jul 2018 03:17

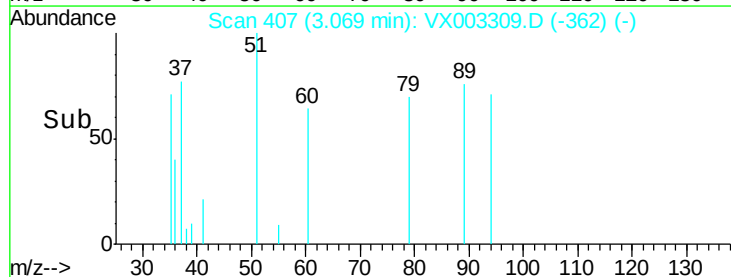
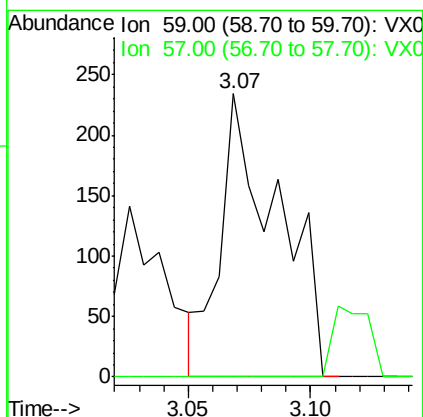
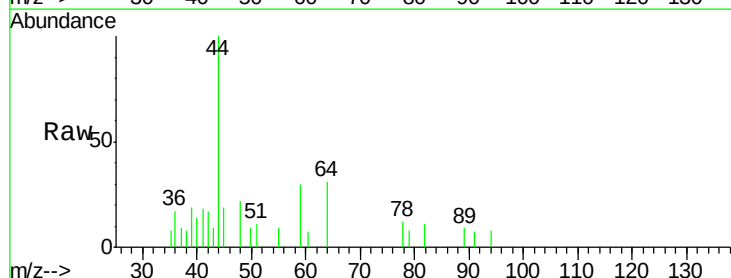
Instrument :
MSVOA_X
ClientSampled :
NEMH

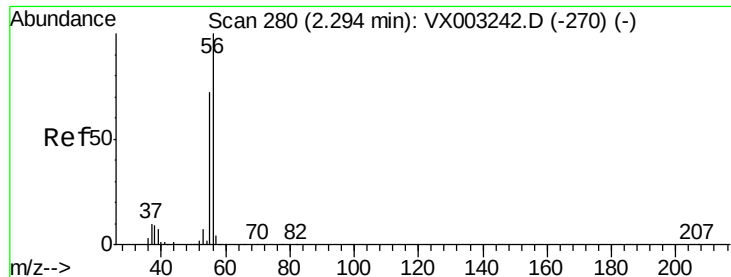
Tot Ion:142 Resp: 1795
Ion Ratio Lower Upper
142 100
127 49.7 36.6 55.0
141 11.3 11.3 16.9



#11
Tert butyl alcohol
Concen: 0.50 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.02 min
Lab File: VX003309.D
Acq: 11 Jul 2018 03:17

Tgt Ion: 59 Resp: 382
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#





#13

Acrolein

Concen: 0.43 ug/l

RT: 2.31 min Scan# 283

Delta R.T. 0.02 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

Instrument :

MSVOA_X

ClientSampled :

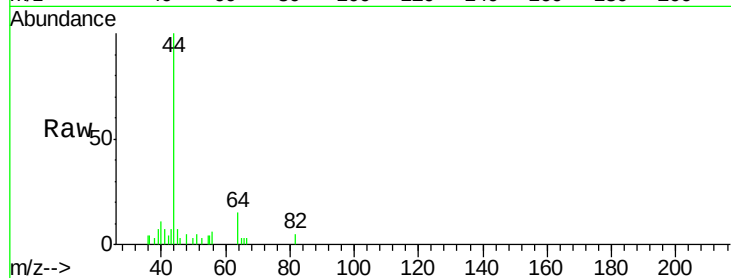
NEMH

Tot Ion: 56 Resp: 262

Ion Ratio Lower Upper

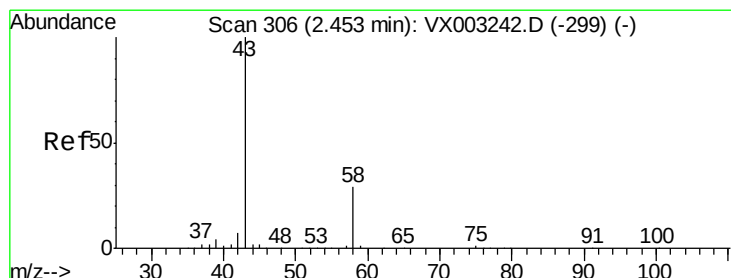
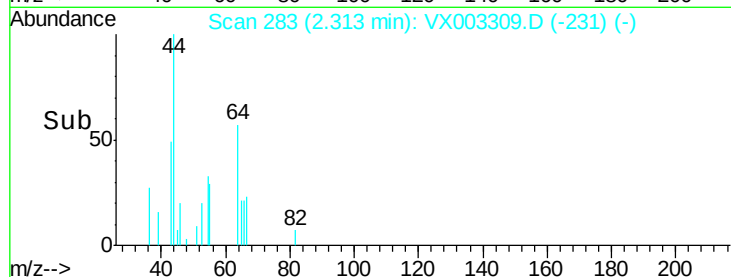
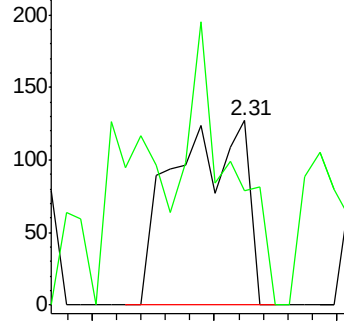
56 100

55 88.9 57.0 85.4#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 14.16 ug/l

RT: 2.45 min Scan# 306

Delta R.T. 0.00 min

Lab File: VX003309.D

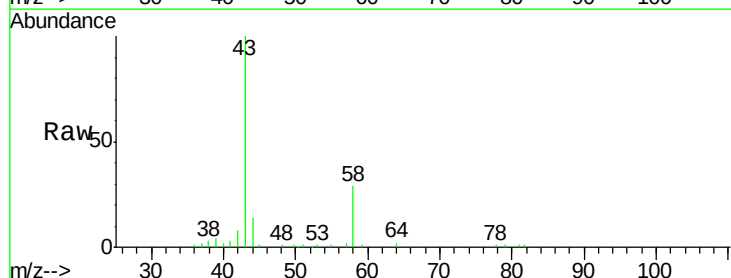
Acq: 11 Jul 2018 03:17

Tgt Ion: 43 Resp: 21189

Ion Ratio Lower Upper

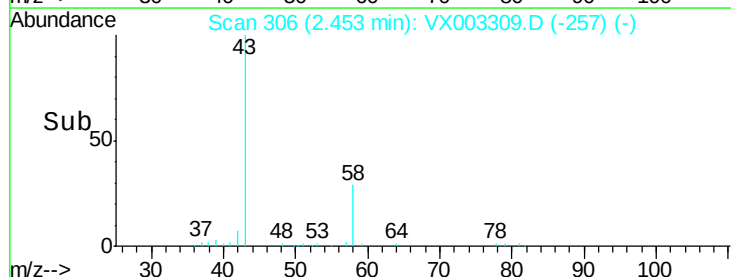
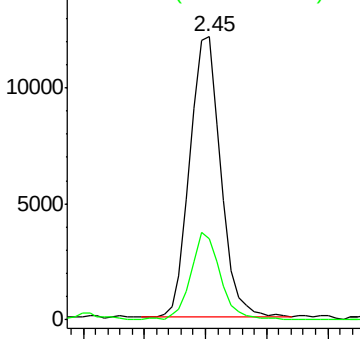
43 100

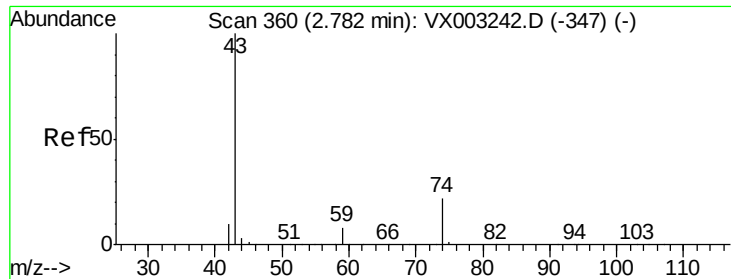
58 28.9 22.1 33.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#18

Methvl Acetate

Concen: 3.91 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

Instrument :

MSVOA_X

ClientSampled :

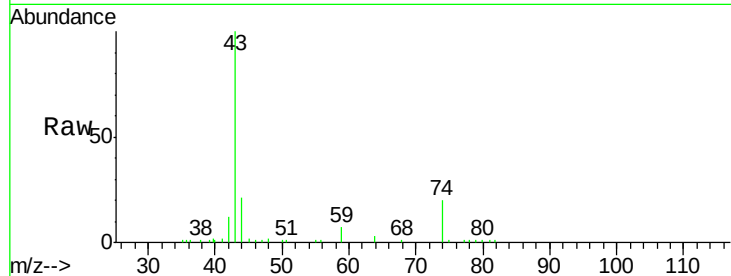
NEMH

Tot Ion: 43 Resp: 16511

Ion Ratio Lower Upper

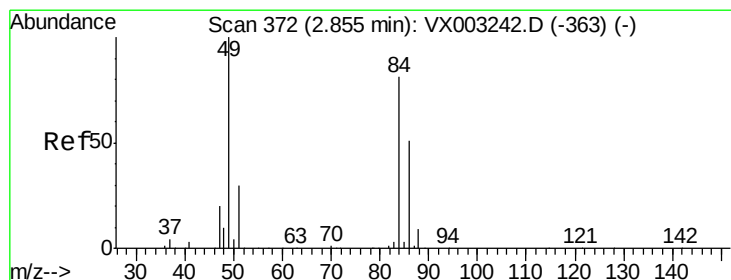
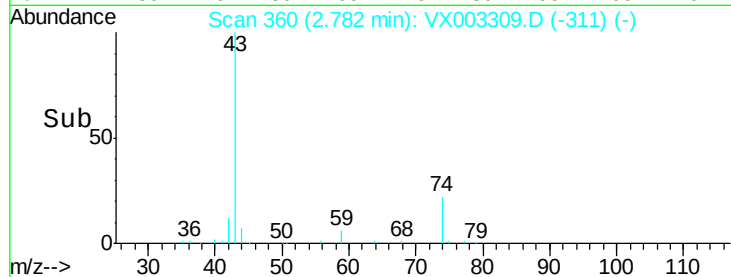
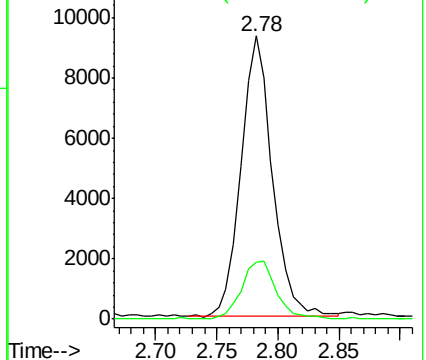
43 100

74 23.1 16.7 25.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0



#20

Methylene Chloride

Concen: 3.15 ug/l

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

Tgt Ion: 84 Resp: 11687

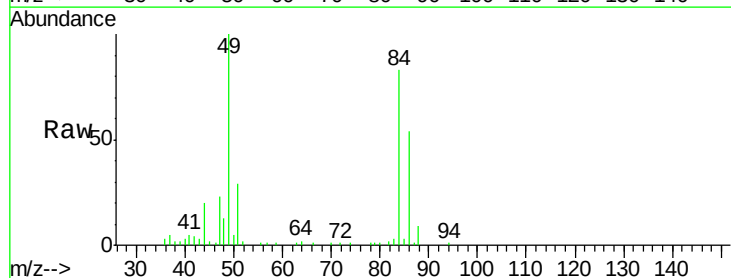
Ion Ratio Lower Upper

84 100

49 120.0 107.8 161.6

51 35.1 32.8 49.2

86 64.4 52.5 78.7

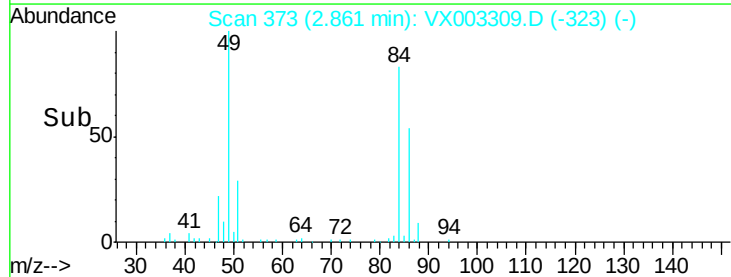
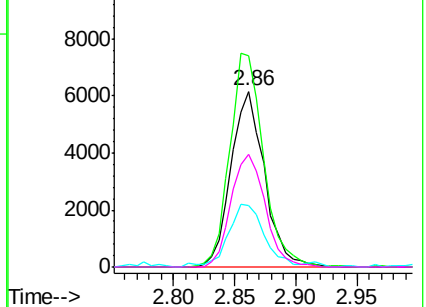


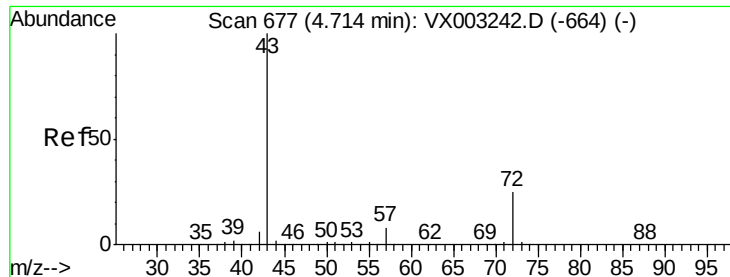
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#25

2-Butanone

Concen: 3.00 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

Instrument :

MSVOA_X

ClientSampleId :

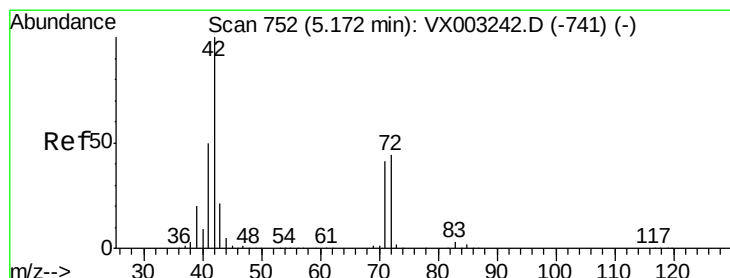
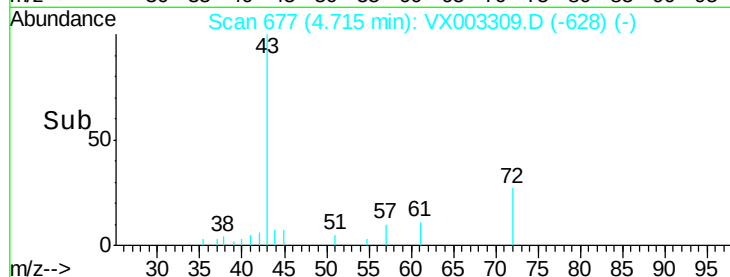
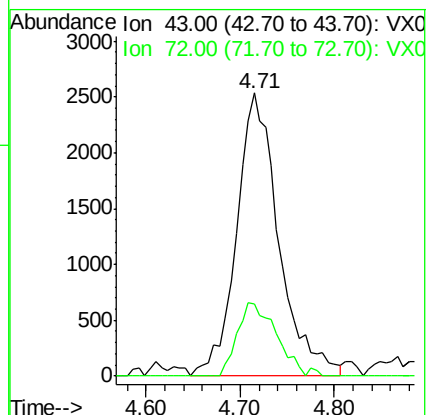
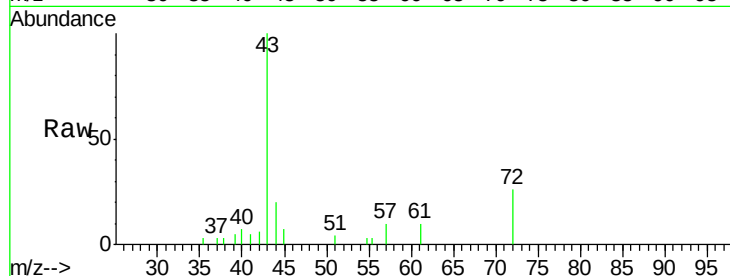
NEMH

Tot Ion: 43 Resp: 7952

Ion Ratio Lower Upper

43 100

72 25.5 18.5 27.7



#29

Tetrahydrofuran

Concen: 0.37 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.00 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

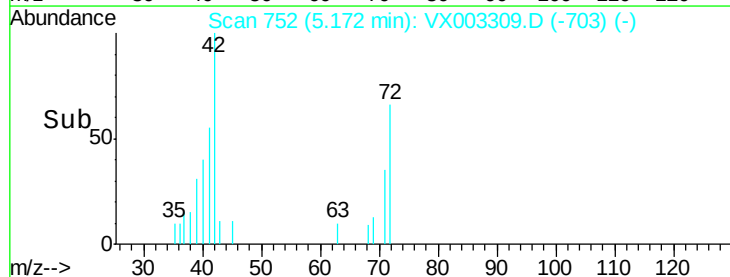
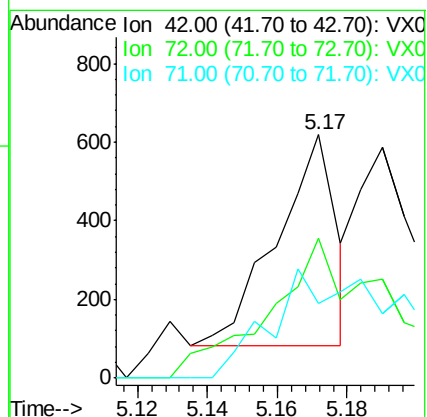
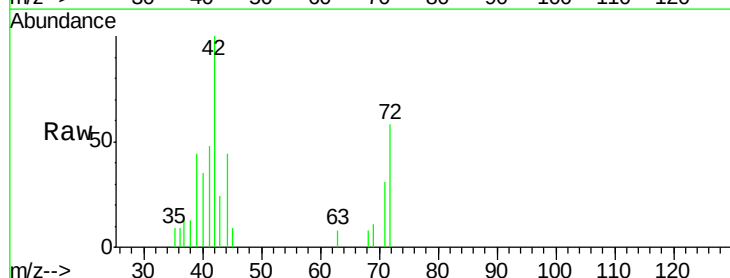
Tgt Ion: 42 Resp: 632

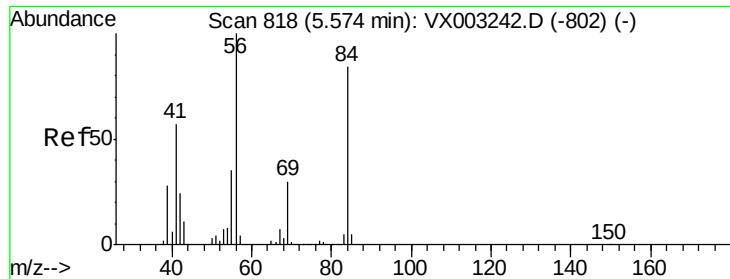
Ion Ratio Lower Upper

42 100

72 142.7 32.0 48.0#

71 57.6 30.1 45.1#

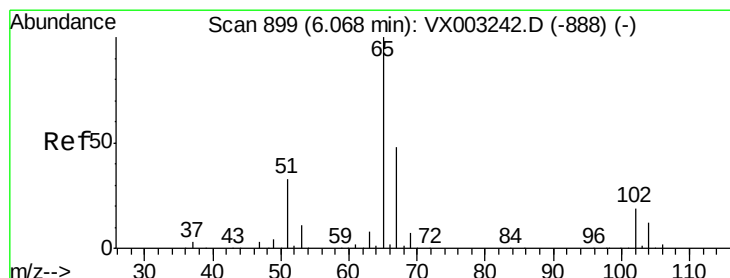
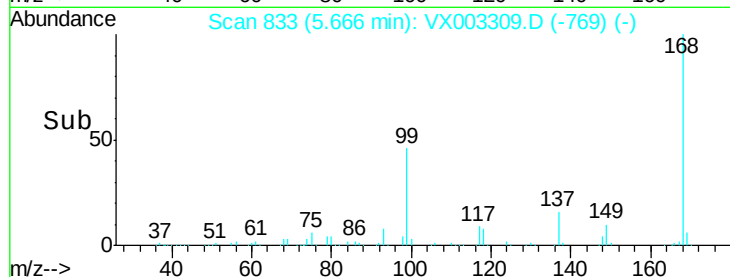
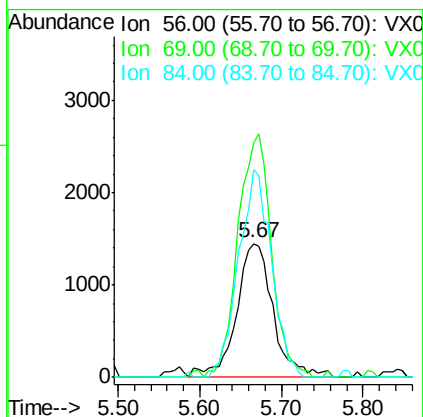
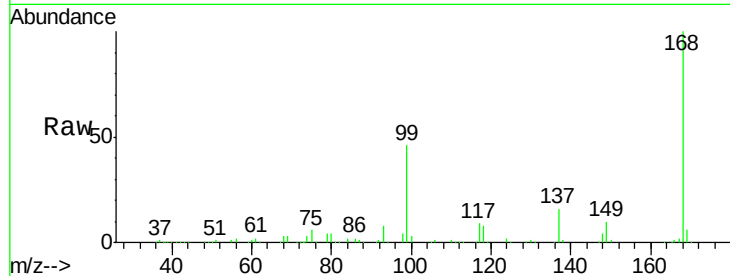




#31
Cyclohexane
Concen: 0.82 ug/l
RT: 5.67 min Scan# 833
Delta R.T. 0.09 min
Lab File: VX003309.D
Acq: 11 Jul 2018 03:17

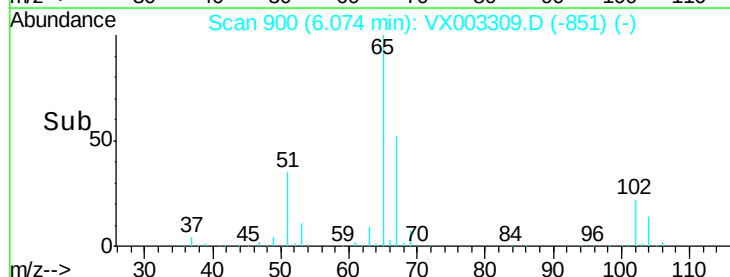
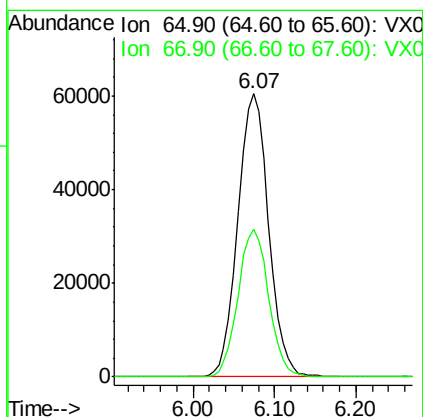
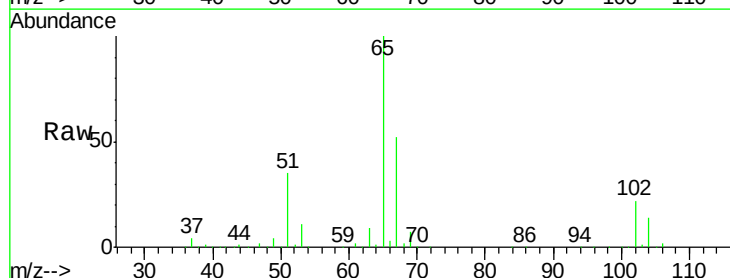
Instrument :
MSVOA_X
ClientSampleId :
NEMH

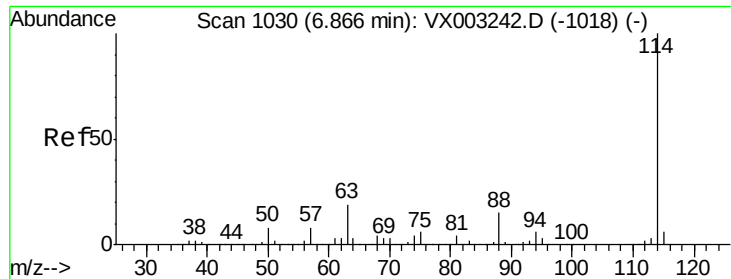
Tot Ion: 56 Resp: 4523
Ion Ratio Lower Upper
56 100
69 174.9 23.7 35.5#
84 155.1 64.1 96.1#



#33
1,2-Dichloroethane-d4
Concen: 37.59 ug/l
RT: 6.07 min Scan# 900
Delta R.T. 0.00 min
Lab File: VX003309.D
Acq: 11 Jul 2018 03:17

Tgt Ion: 65 Resp: 158482
Ion Ratio Lower Upper
65 100
67 52.2 0.0 102.6





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

Instrument :

MSVOA_X

ClientSampleId :

NEMH

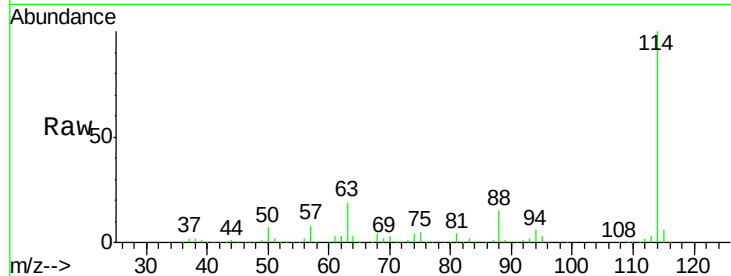
Tot Ion:114 Resp: 371216

Ion Ratio Lower Upper

114 100

63 18.8 0.0 41.4

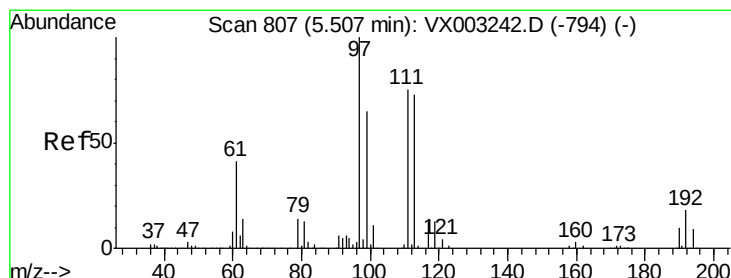
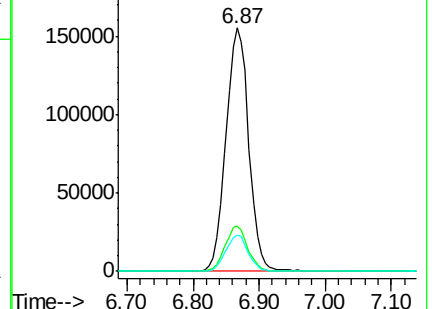
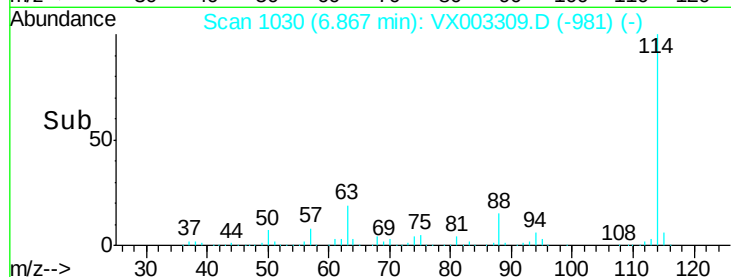
88 15.0 0.0 30.0



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



#35

Dibromofluoromethane

Concen: 35.03 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

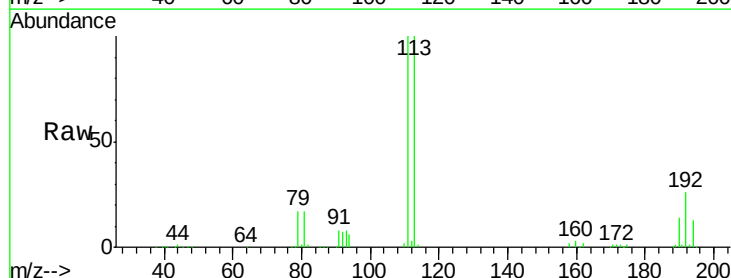
Tgt Ion:113 Resp: 139692

Ion Ratio Lower Upper

113 100

111 101.2 81.4 122.0

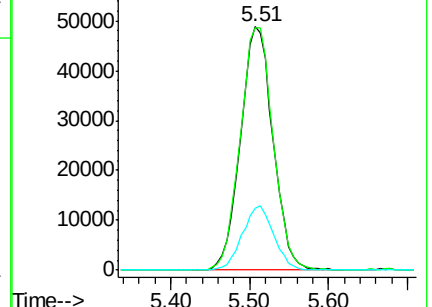
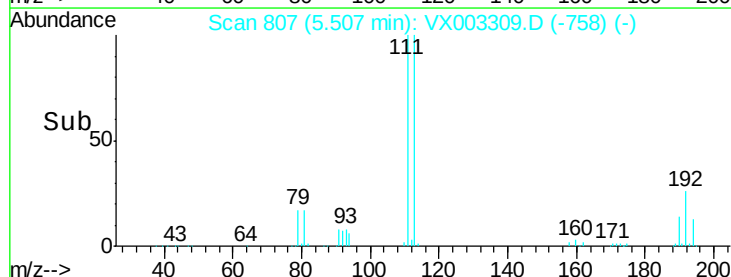
192 25.6 19.1 28.7

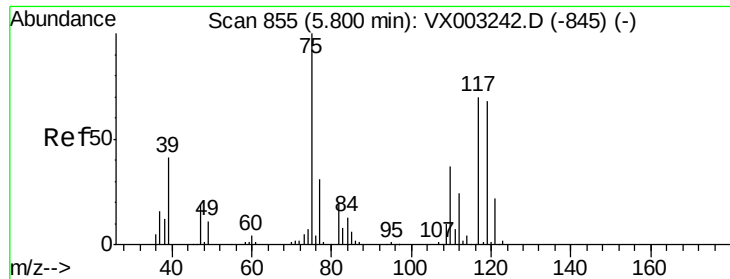


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

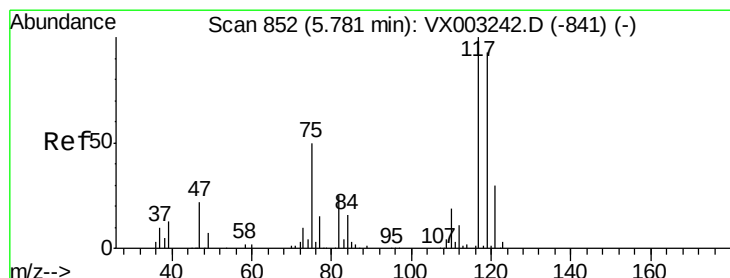
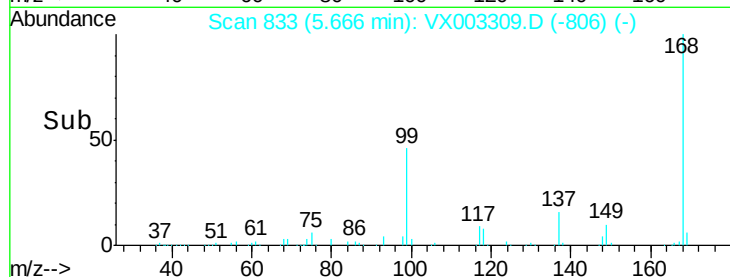
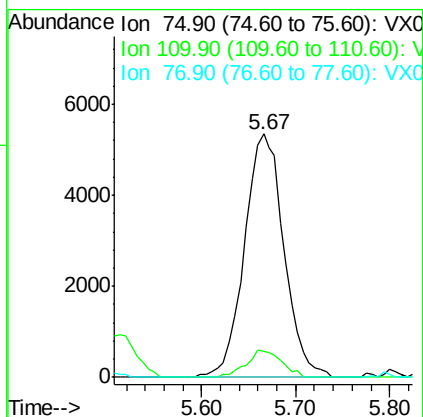
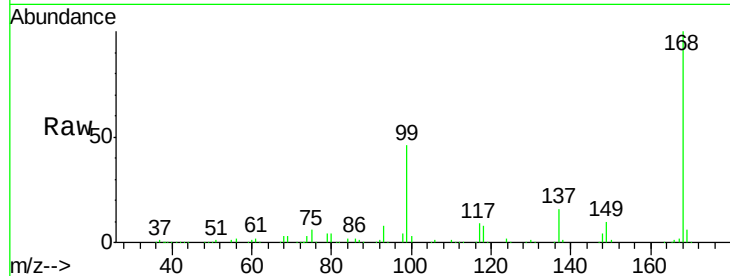




#36
 1,1-Dichloropropene
 Concen: 2.98 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.13 min
 Lab File: VX003309.D
 Acq: 11 Jul 2018 03:17

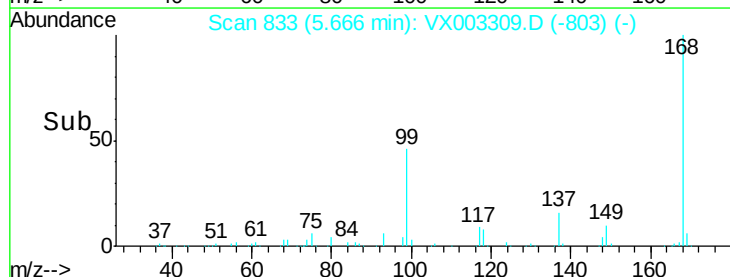
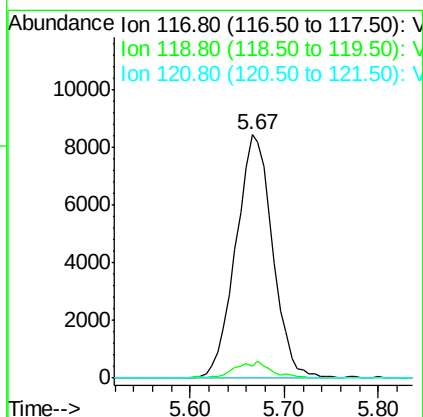
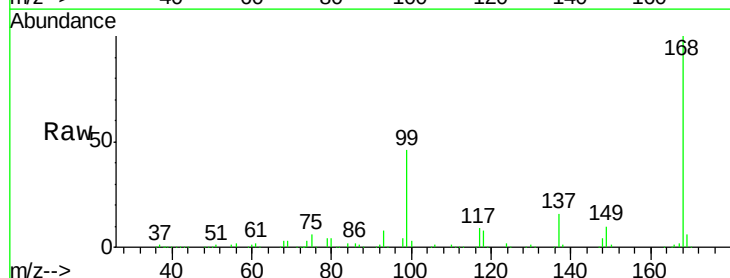
Instrument :
 MSVOA_X
 ClientSampled :
 NEMH

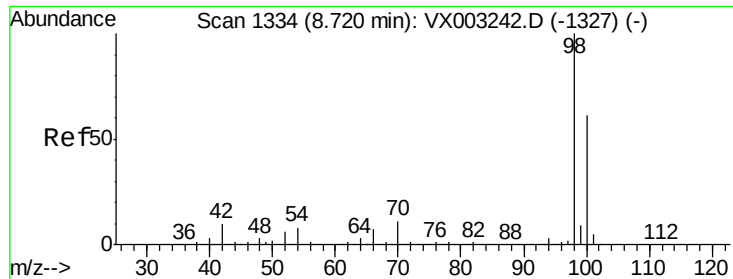
Tot Ion: 75 Resp: 15681
 Ion Ratio Lower Upper
 75 100
 110 10.1 18.1 54.4#
 77 0.0 24.3 36.5#



#38
 Carbon Tetrachloride
 Concen: 4.00 ug/l
 RT: 5.67 min Scan# 833
 Delta R.T. -0.12 min
 Lab File: VX003309.D
 Acq: 11 Jul 2018 03:17

Tgt Ion: 117 Resp: 22986
 Ion Ratio Lower Upper
 117 100
 119 5.2 77.4 116.0#
 121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 36.39 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

Instrument :

MSVOA_X

ClientSampleId :

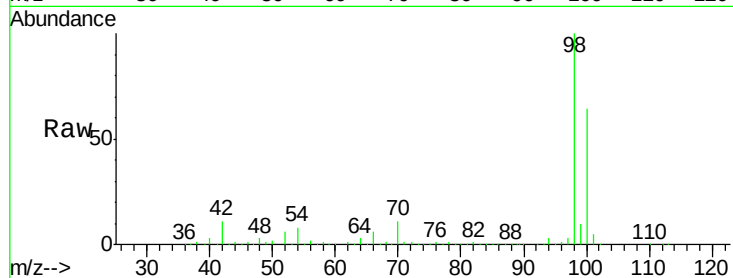
NEMH

Tot Ion: 98 Resp: 515483

Ion Ratio Lower Upper

98 100

100 64.3 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX

8.72

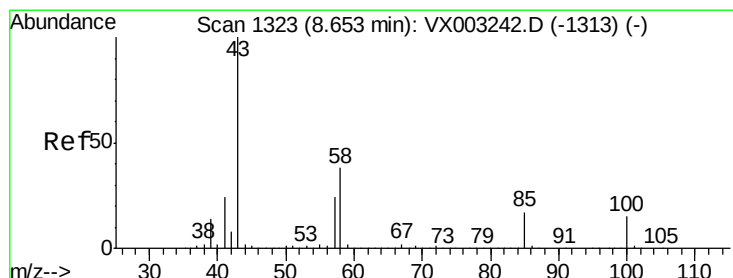
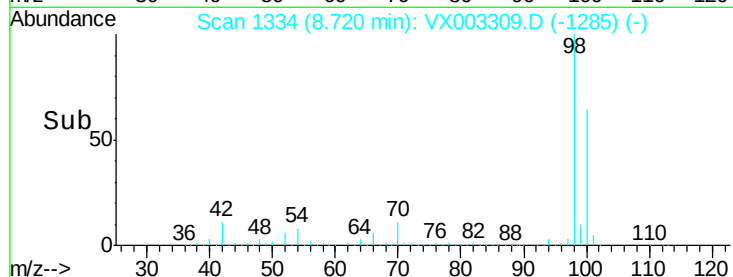
300000

200000

100000

0

Time--> 8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 0.25 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VX003309.D

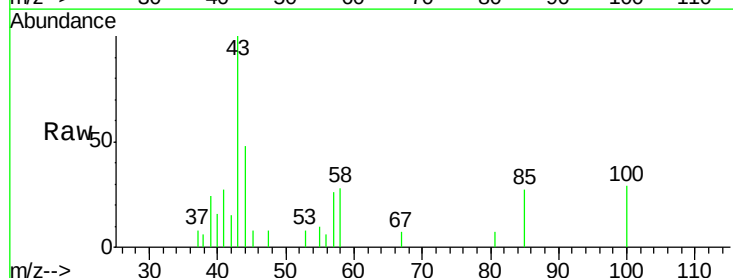
Acq: 11 Jul 2018 03:17

Tgt Ion: 43 Resp: 1400

Ion Ratio Lower Upper

43 100

58 39.3 28.6 42.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

3000

2500

2000

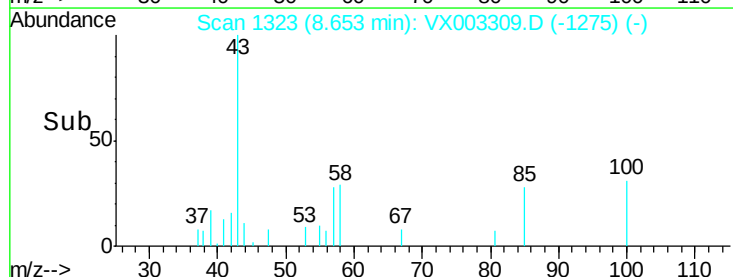
1500

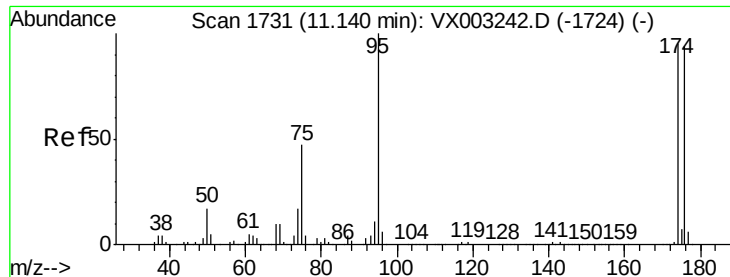
1000

500

0

Time--> 8.60 8.65 8.70

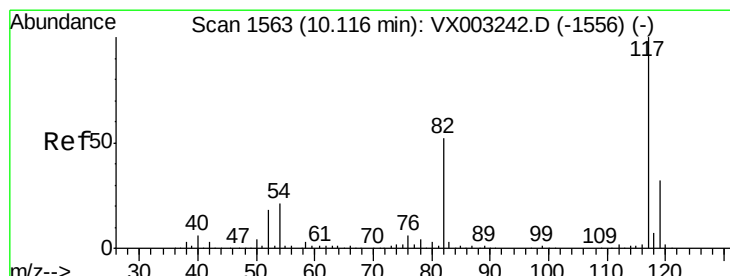
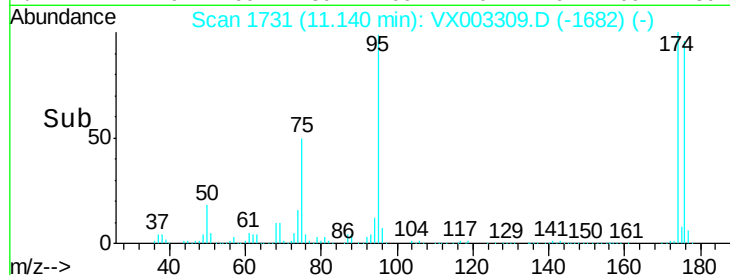
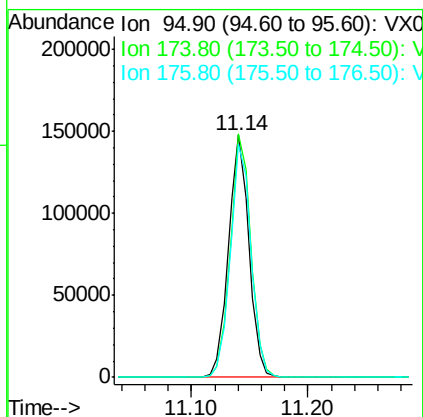
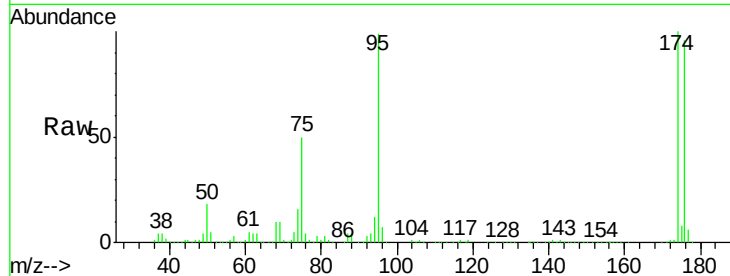




#62
4-Bromofluorobenzene
Concen: 34.40 ug/l
RT: 11.14 min Scan# 1731
Delta R.T. 0.00 min
Lab File: VX003309.D
Acq: 11 Jul 2018 03:17

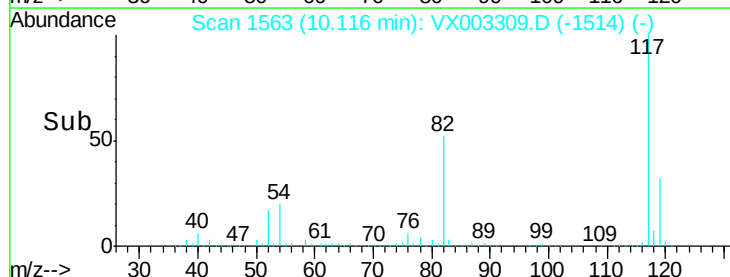
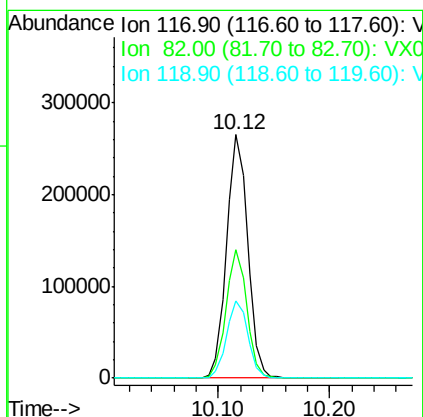
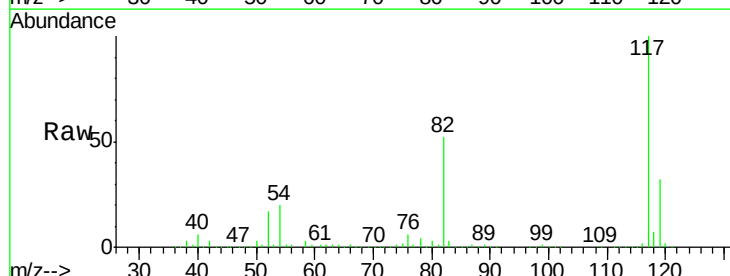
Instrument :
MSVOA_X
ClientSampleId :
NEMH

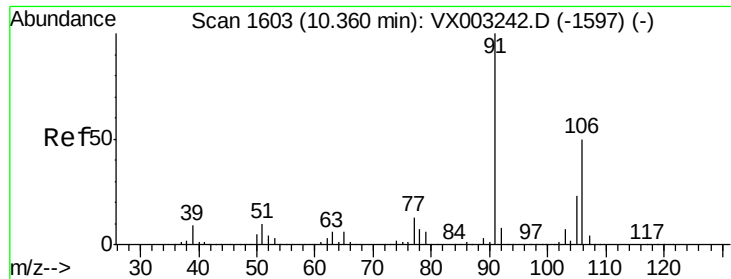
Tot Ion: 95 Resp: 180053
Ion Ratio Lower Upper
95 100
174 101.7 0.0 187.4
176 97.7 0.0 181.0



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003309.D
Acq: 11 Jul 2018 03:17

Tgt Ion: 117 Resp: 350178
Ion Ratio Lower Upper
117 100
82 52.5 45.0 67.4
119 31.9 25.8 38.6





#68

m/p-Xvlenes

Concen: 0.22 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

Instrument :

MSVOA_X

ClientSampled :

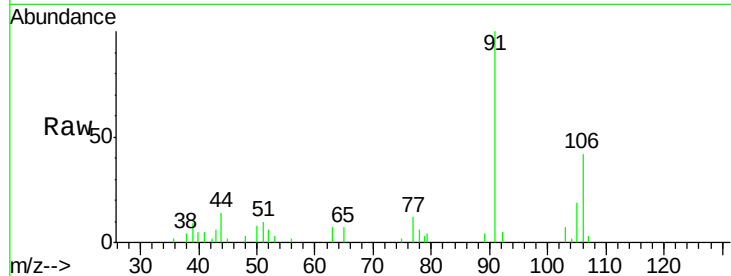
NEMH

Tot Ion:106 Resp: 1656

Ion Ratio Lower Upper

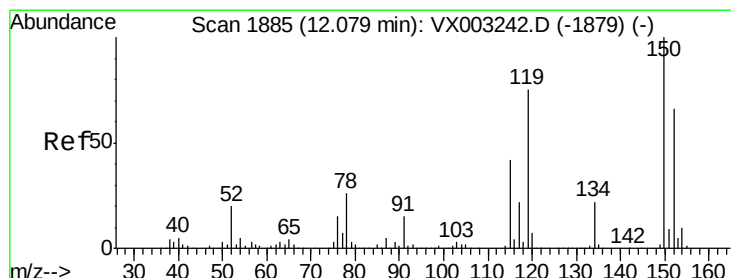
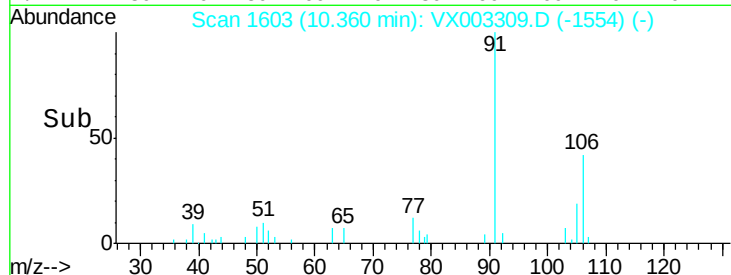
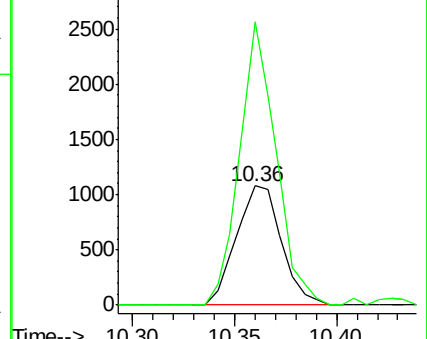
106 100

91 191.8 163.4 245.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

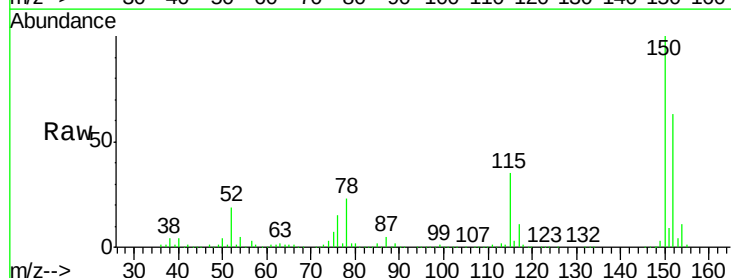
Tgt Ion:152 Resp: 192419

Ion Ratio Lower Upper

152 100

115 53.3 40.1 120.2

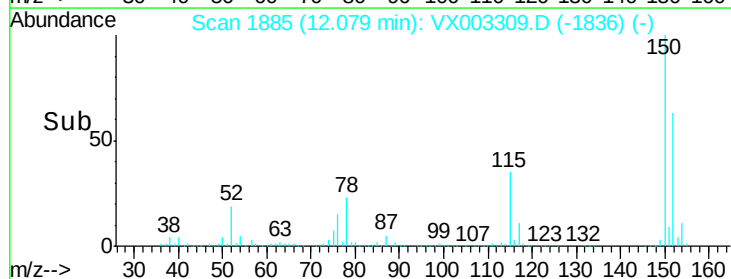
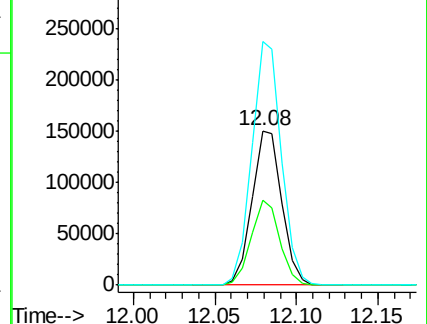
150 156.3 0.0 347.2

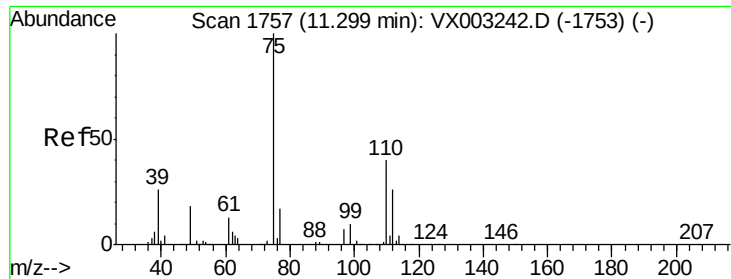


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.31 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

Instrument :

MSVOA_X

ClientSampleId :

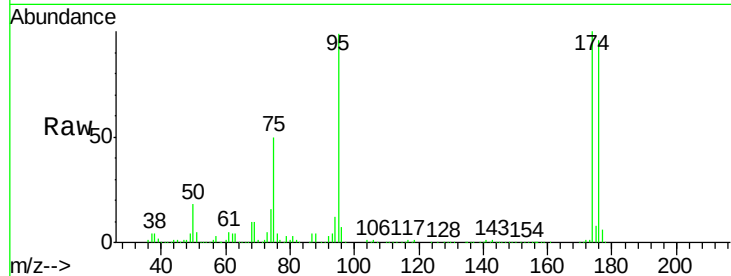
NEMH

Tot Ion: 75 Resp: 88635

Ion Ratio Lower Upper

75 100

77 1.5 22.8 68.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.14

80000

60000

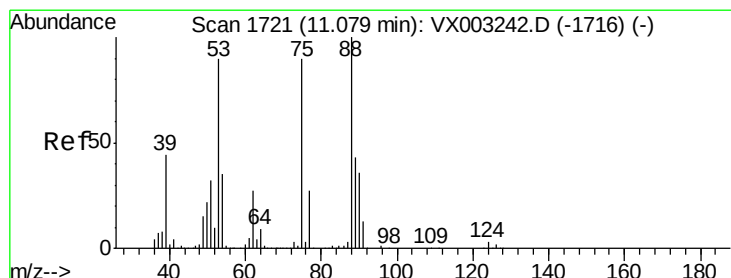
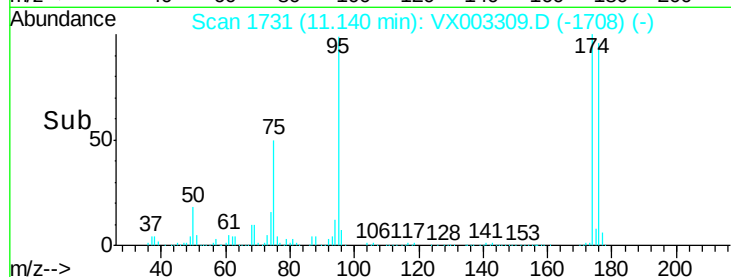
40000

20000

0

Time-->

11.10 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 69.66 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

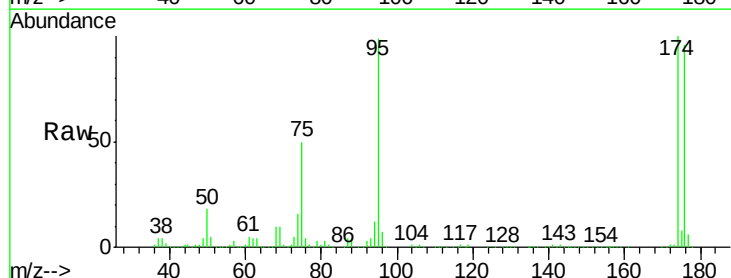
Tgt Ion: 75 Resp: 88635

Ion Ratio Lower Upper

75 100

53 0.3 86.8 130.2#

89 0.0 38.2 57.2#



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

100000

80000

60000

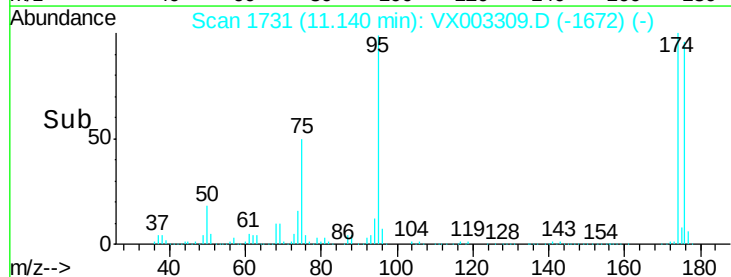
40000

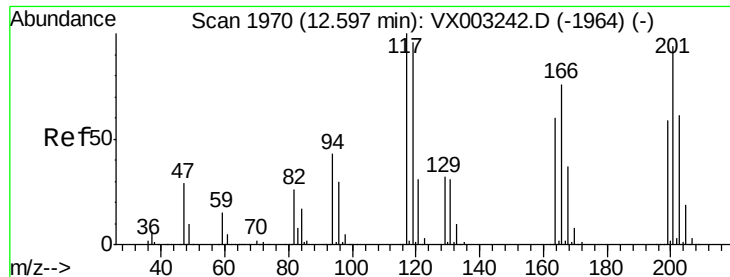
20000

0

Time-->

11.10 11.20





#90

Hexachloroethane

Concen: 0.32 ug/l

RT: 12.67 min Scan# 1982

Delta R.T. 0.07 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

Instrument :

MSVOA_X

ClientSampleId :

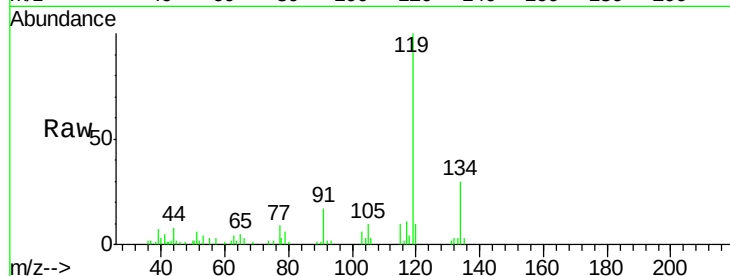
NEMH

Tot Ion:117 Resp: 655

Ion Ratio Lower Upper

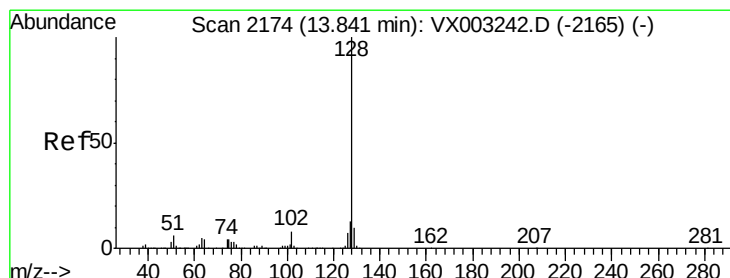
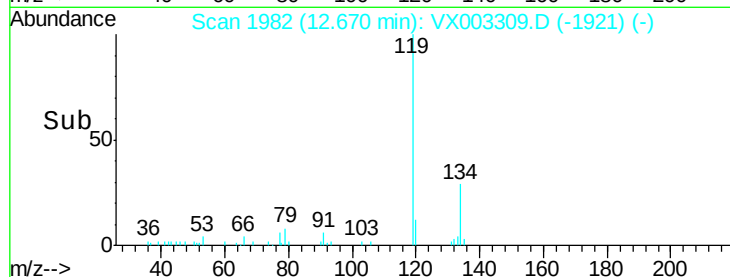
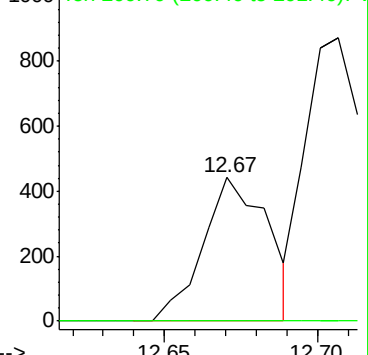
117 100

201 0.0 49.0 147.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 0.98 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX003309.D

Acq: 11 Jul 2018 03:17

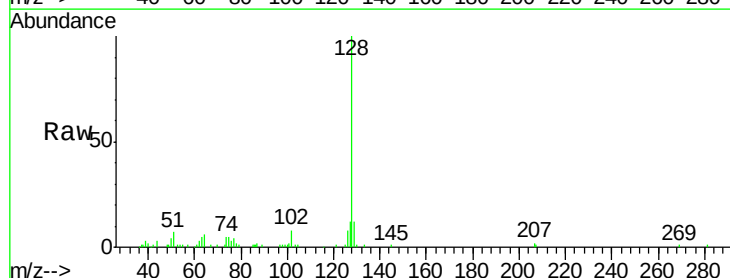
Tgt Ion:128 Resp: 15058

Ion Ratio Lower Upper

128 100

127 14.3 10.4 15.6

129 12.6 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

