

Data Path : W:\HPCHEM1\MSVOA_X\DATA\VX032118\
 Data File : VX000383.D
 Acq On : 21 Mar 2018 14:21
 Operator : JC/MD
 Sample : J1997-08 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DGA-TOP-LAYER-1-A

Quant Time: Mar 22 05:28:55 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X032018W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 21 04:52:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.68	168	107069	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	187193	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	176596	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	85920	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.08	65	75948	54.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.68%	
35) Dibromofluoromethane	5.52	113	57919	49.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.22%	
50) Toluene-d8	8.73	98	234243	47.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.90%	
62) 4-Bromofluorobenzene	11.15	95	79482	39.93	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.86%	

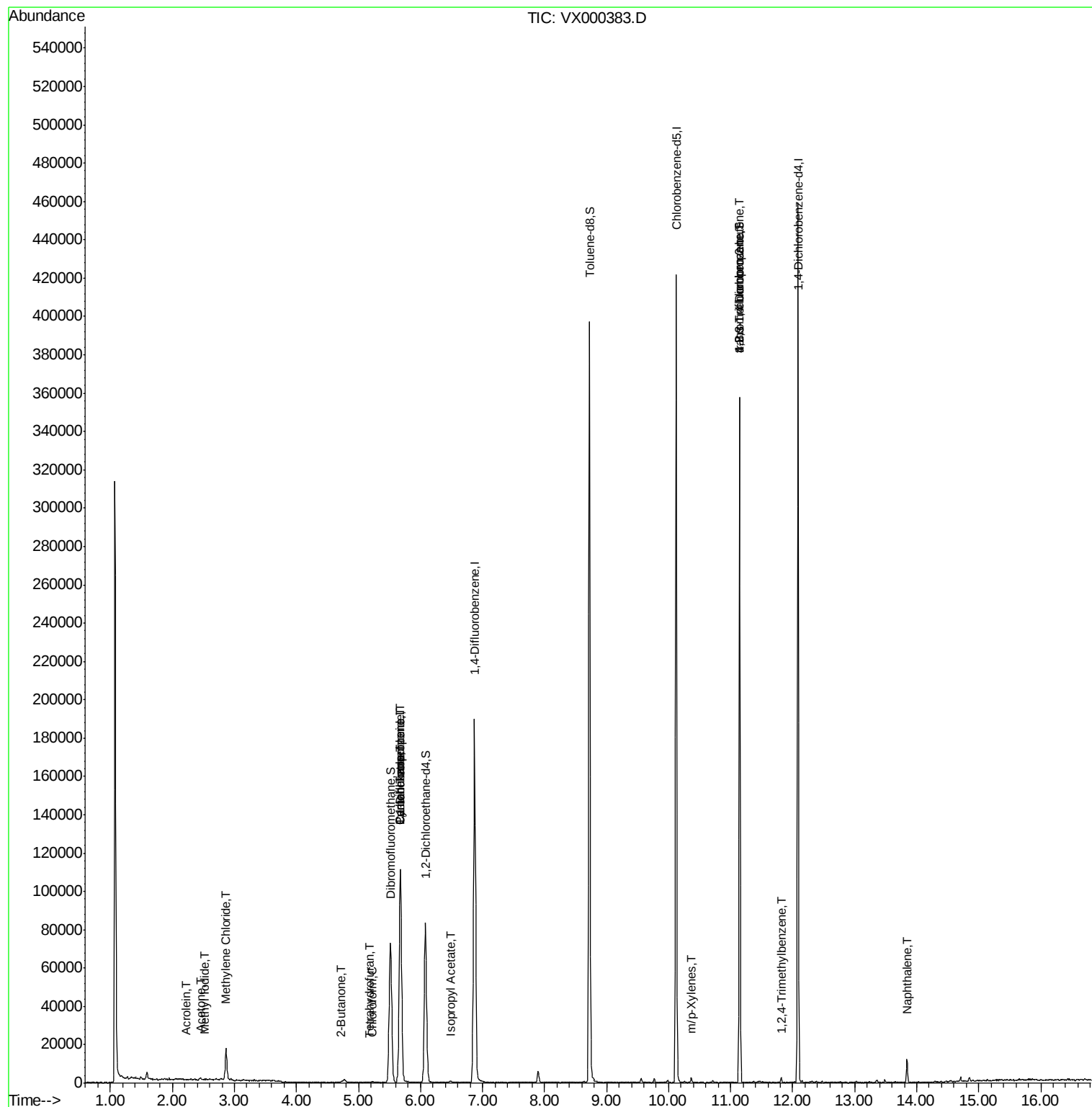
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.73	64	41	Below Cal	#	44
10) Methyl Iodide	2.52	142	87	4.34	ug/l #	37
13) Acrolein	2.21	56	28	14.75	ug/l #	13
14) Allyl chloride	2.73	41	98	Below Cal	#	1
16) Acetone	2.45	43	1569	1.35	ug/l	97
20) Methylene Chloride	2.87	84	6977	5.20	ug/l #	88
25) 2-Butanone	4.71	43	424	0.32	ug/l #	49
29) Tetrahydrofuran	5.18	42	334	0.42	ug/l #	47
30) Chloroform	5.22	83	519	0.24	ug/l #	79
31) Cyclohexane	5.68	56	2528	1.43	ug/l #	12
36) 1,1-Dichloropropene	5.67	75	8387	4.78	ug/l #	52
38) Carbon Tetrachloride	5.68	117	10615	5.77	ug/l #	15
43) Isopropyl Acetate	6.48	43	1132	0.32	ug/l #	69
68) m/p-Xylenes	10.36	106	986	0.38	ug/l #	56
74) N-amyl acetate	6.48	43	1132	Below Cal	#	68
76) 1,2,3-Trichloropropane	11.15	75	45041	24.39	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	45041	78.97	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	1272	0.25	ug/l	99
95) Naphthalene	13.84	128	6881	0.98	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

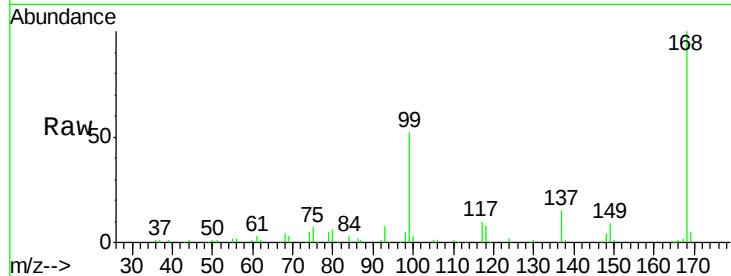
DGA-TOP-LAYER-1-A

Tgt Ion: 168 Resp: 107069

Ion Ratio Lower Upper

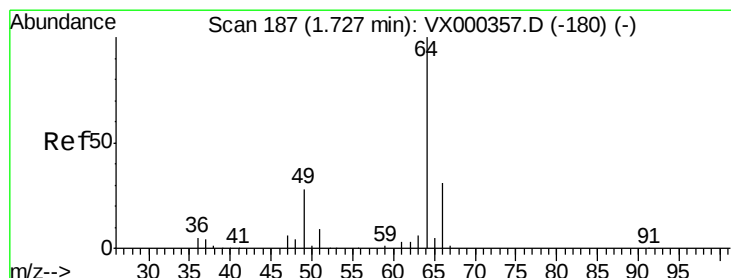
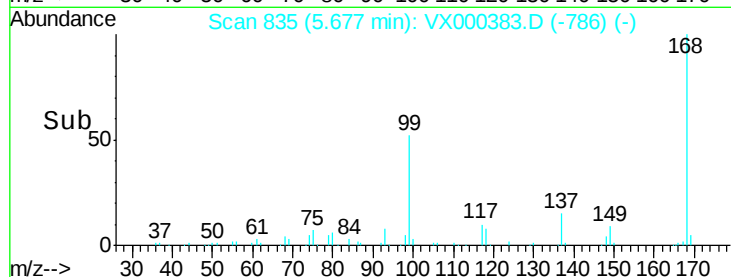
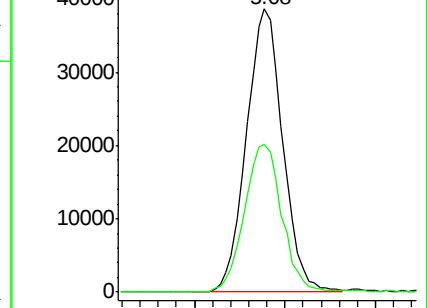
168 100

99 52.4 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX000383.D

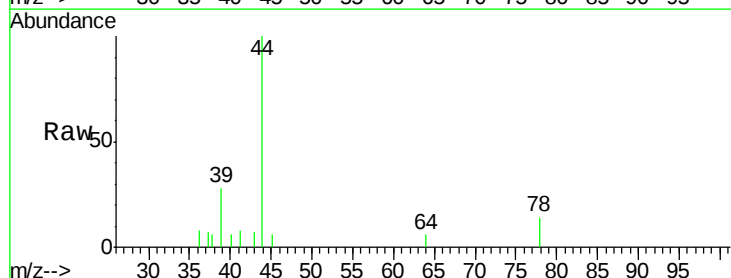
Acq: 21 Mar 2018 14:21

Tgt Ion: 64 Resp: 41

Ion Ratio Lower Upper

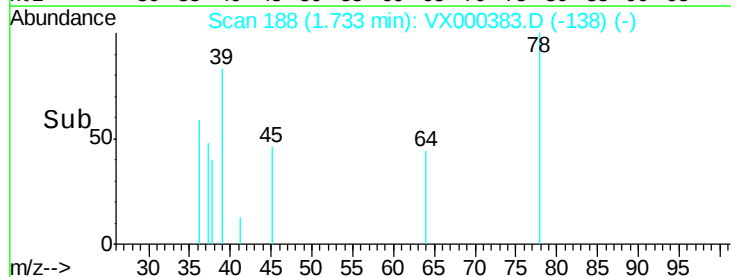
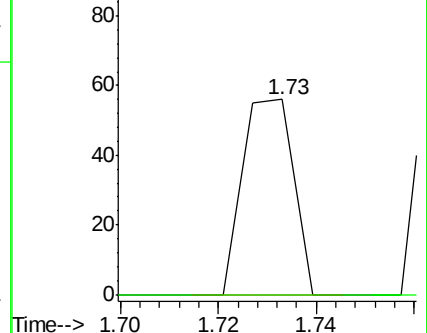
64 100

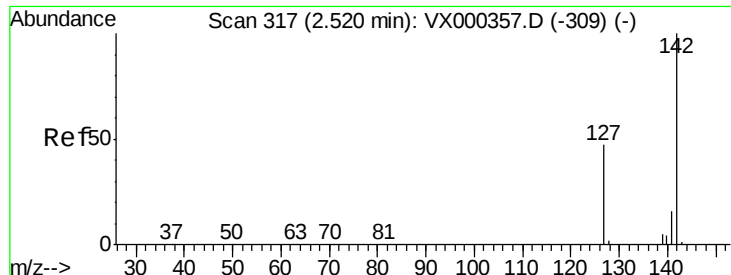
66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

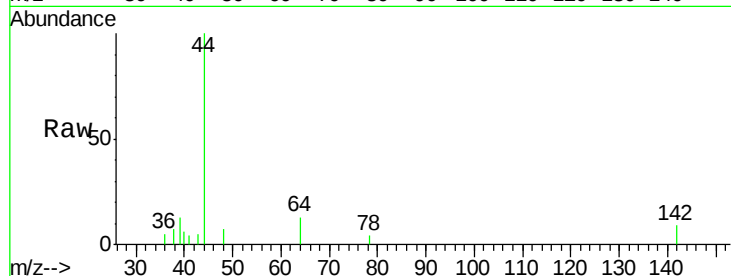




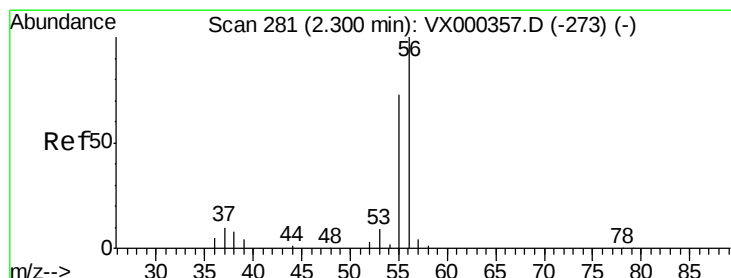
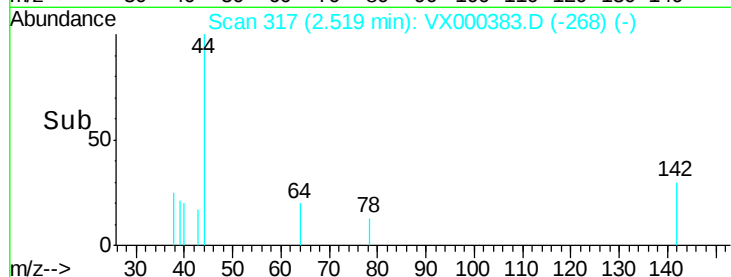
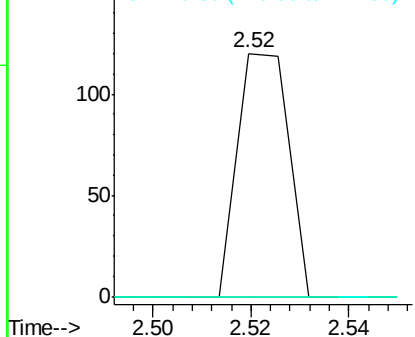
#10
Methyl Iodide
Concen: 4.34 ug/l
RT: 2.52 min Scan# 317
Delta R.T. 0.00 min
Lab File: VX000383.D
Acq: 21 Mar 2018 14:21

Instrument :
MSVOA_X
ClientSampleId :
DGA-TOP-LAYER-1-A

Tgt Ion: 142 Resp: 87
Ion Ratio Lower Upper
142 100
127 0.0 39.2 58.8#
141 0.0 11.7 17.5#

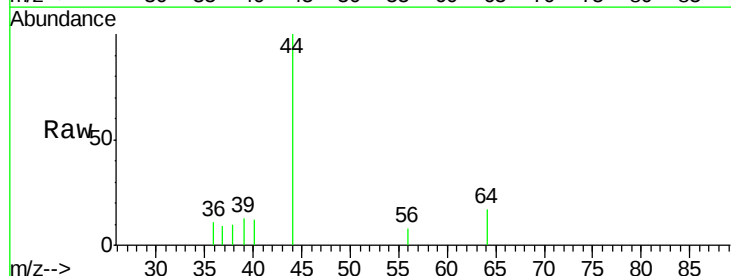


Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V

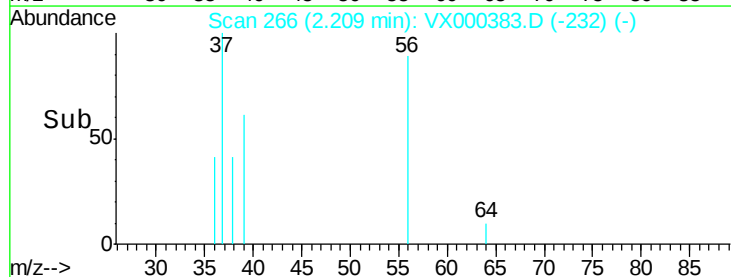
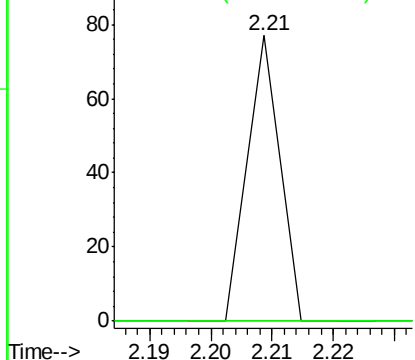


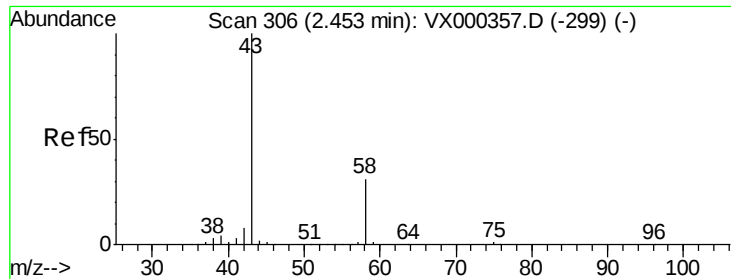
#13
Acrolein
Concen: 14.75 ug/l
RT: 2.21 min Scan# 266
Delta R.T. -0.09 min
Lab File: VX000383.D
Acq: 21 Mar 2018 14:21

Tgt Ion: 56 Resp: 28
Ion Ratio Lower Upper
56 100
55 0.0 58.8 88.2#



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 55.00 (54.70 to 55.70): VX0





#16

Acetone

Concen: 1.35 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

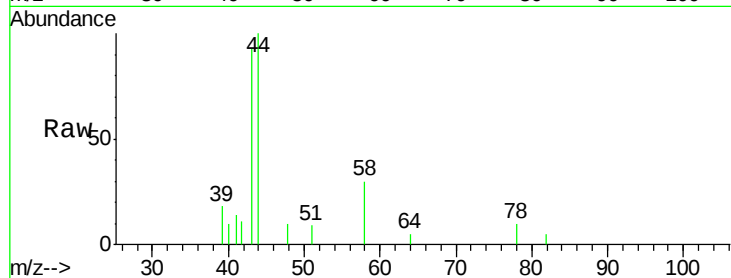
DGA-TOP-LAYER-1-A

Tgt Ion: 43 Resp: 1569

Ion Ratio Lower Upper

43 100

58 32.7 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

800

600

400

200

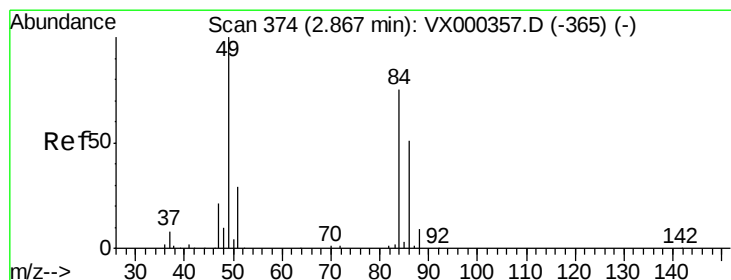
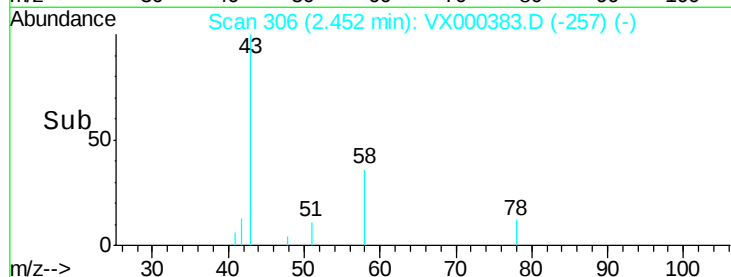
0

2.40

2.45

2.50

Time-->



#20

Methylene Chloride

Concen: 5.20 ug/l

RT: 2.87 min Scan# 374

Delta R.T. -0.00 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

Tgt Ion: 84 Resp: 6977

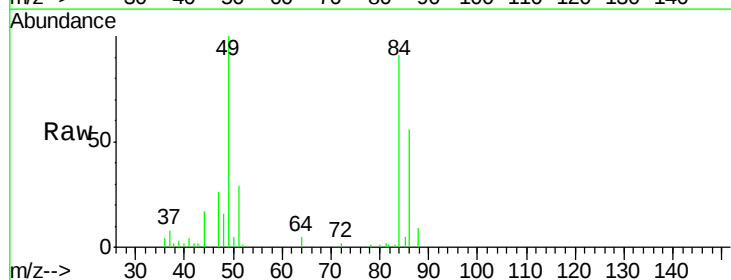
Ion Ratio Lower Upper

84 100

49 109.6 100.6 151.0

51 31.4 31.6 47.4#

86 61.4 52.6 78.8



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

6000

4000

2000

0

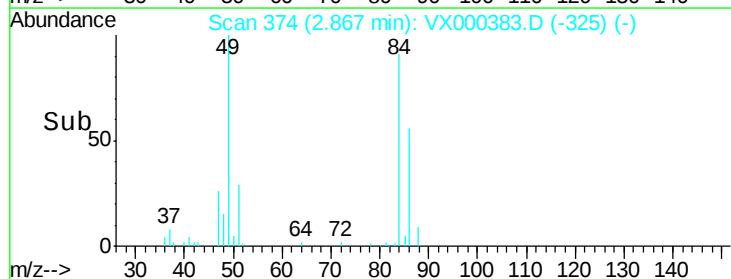
2.80

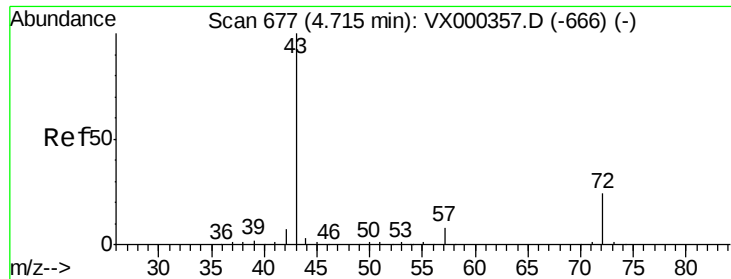
2.85

2.90

2.95

Time-->





#25

2-Butanone

Concen: 0.32 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

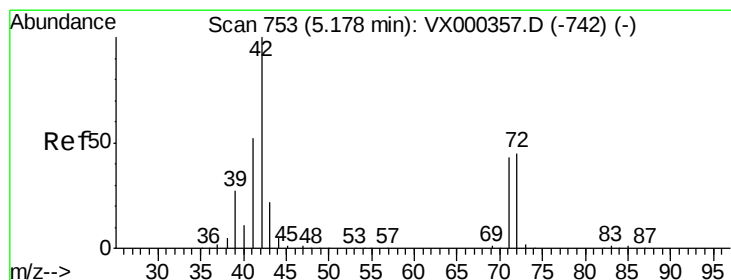
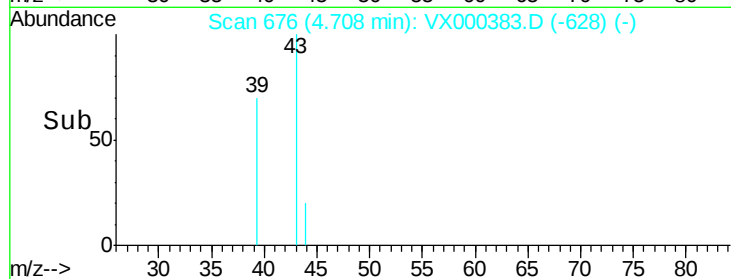
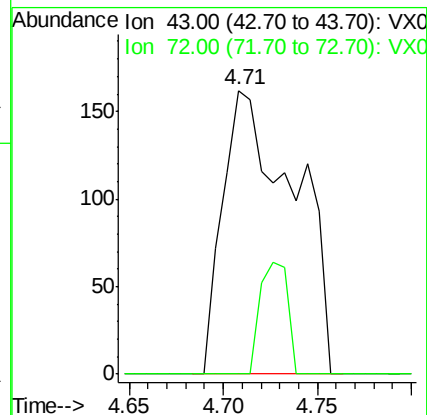
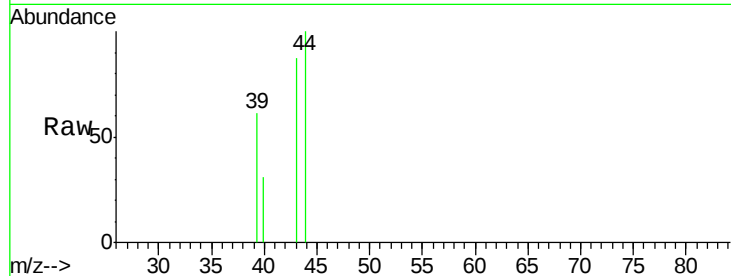
DGA-TOP-LAYER-1-A

Tgt Ion: 43 Resp: 424

Ion Ratio Lower Upper

43 100

72 0.0 21.0 31.6#



#29

Tetrahydrofuran

Concen: 0.42 ug/l

RT: 5.18 min Scan# 753

Delta R.T. -0.00 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

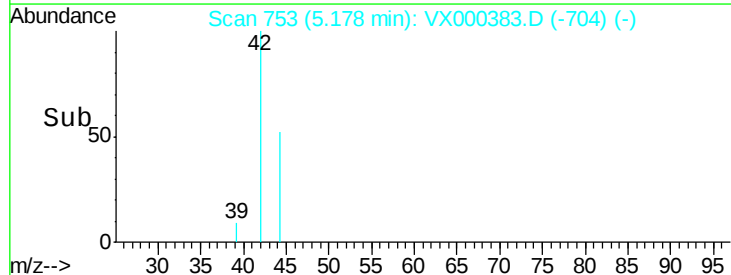
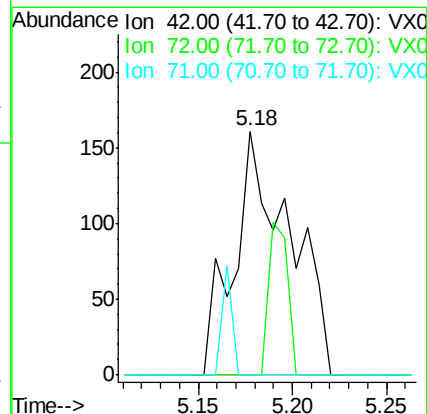
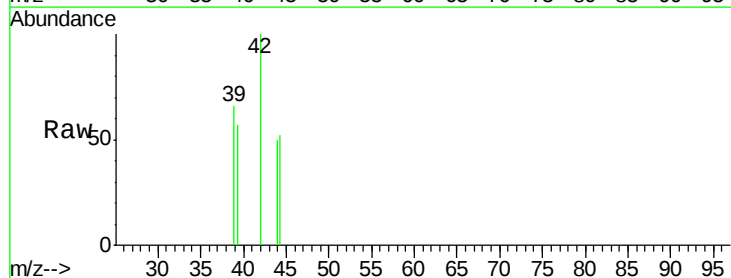
Tgt Ion: 42 Resp: 334

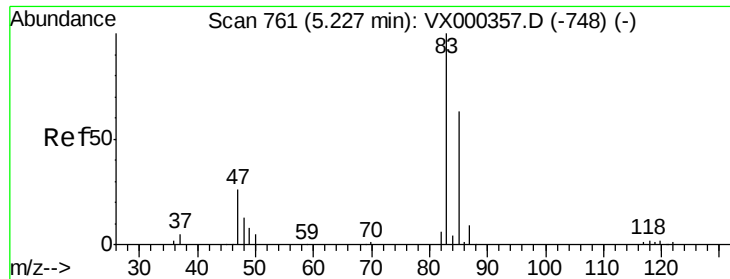
Ion Ratio Lower Upper

42 100

72 21.0 37.9 56.9#

71 0.0 34.4 51.6#

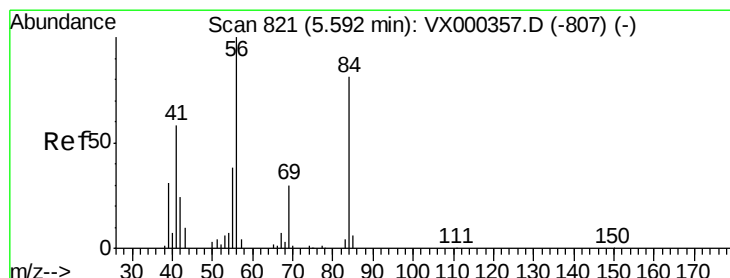
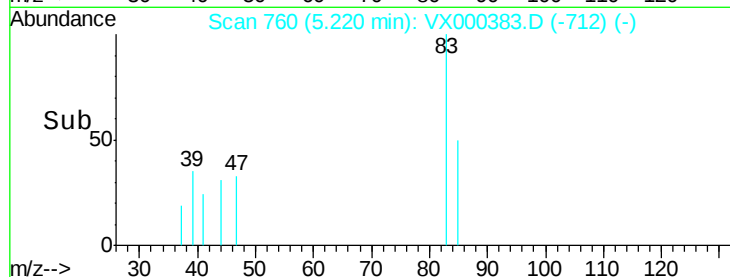
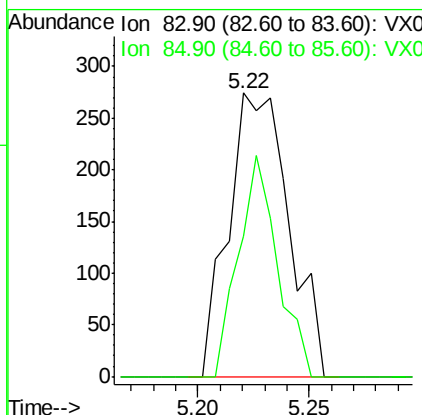
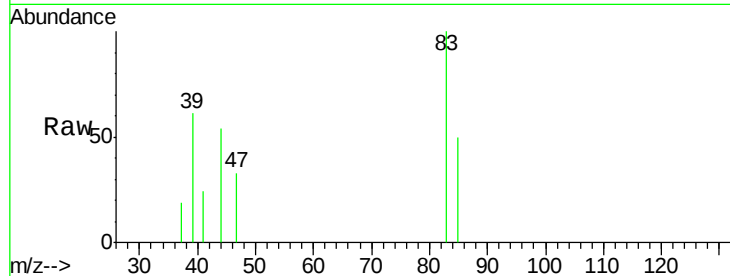




#30
Chloroform
Concen: 0.24 ug/l
RT: 5.22 min Scan# 760
Delta R.T. -0.01 min
Lab File: VX000383.D
Acq: 21 Mar 2018 14:21

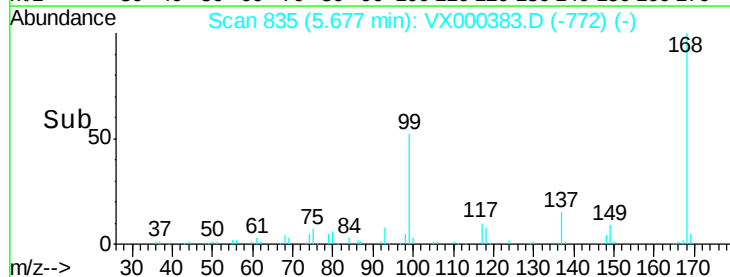
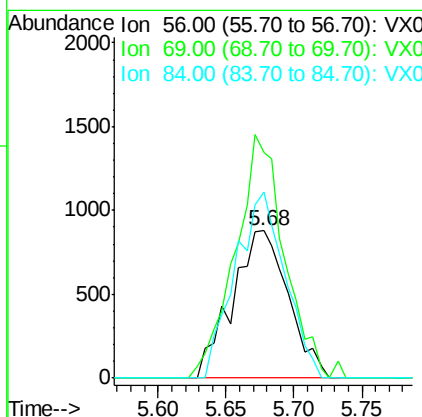
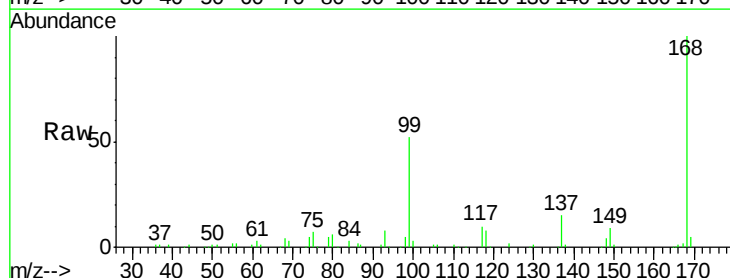
Instrument :
MSVOA_X
ClientSampleId :
DGA-TOP-LAYER-1-A

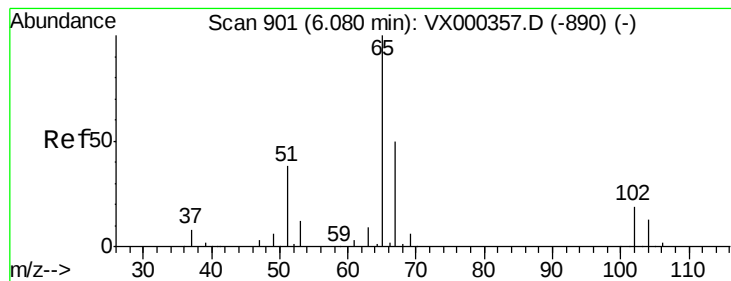
Tgt Ion: 83 Resp: 519
Ion Ratio Lower Upper
83 100
85 49.6 53.3 79.9#



#31
Cyclohexane
Concen: 1.43 ug/l
RT: 5.68 min Scan# 835
Delta R.T. 0.08 min
Lab File: VX000383.D
Acq: 21 Mar 2018 14:21

Tgt Ion: 56 Resp: 2528
Ion Ratio Lower Upper
56 100
69 153.2 23.4 35.0#
84 126.6 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 54.34 ug/l

RT: 6.08 min Scan# 901

Delta R.T. -0.00 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

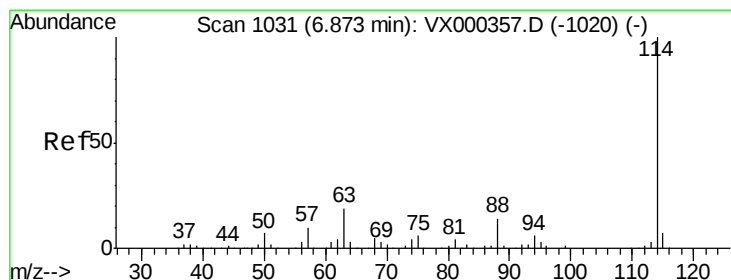
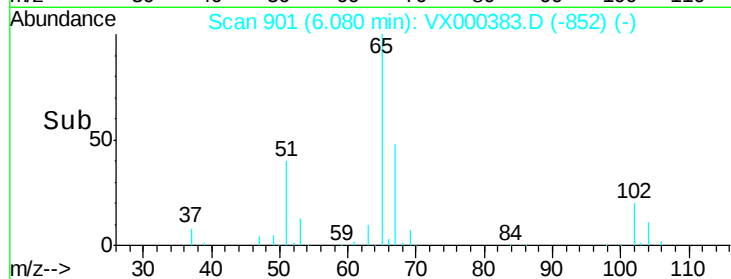
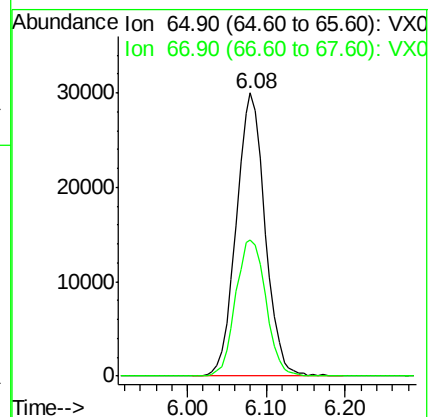
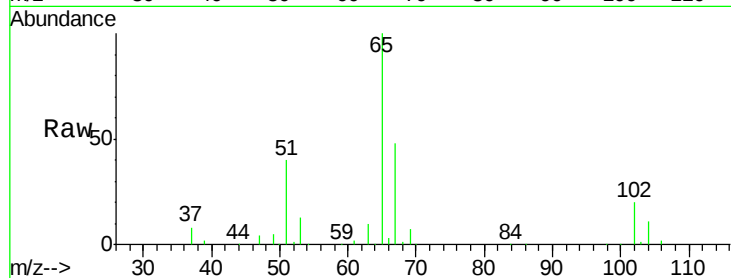
DGA-TOP-LAYER-1-A

Tgt Ion: 65 Resp: 75948

Ion Ratio Lower Upper

65 100

67 50.8 0.0 103.2



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

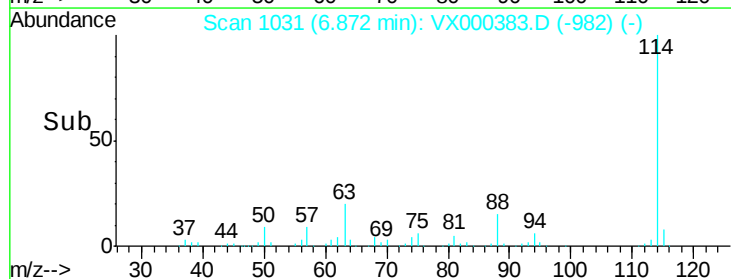
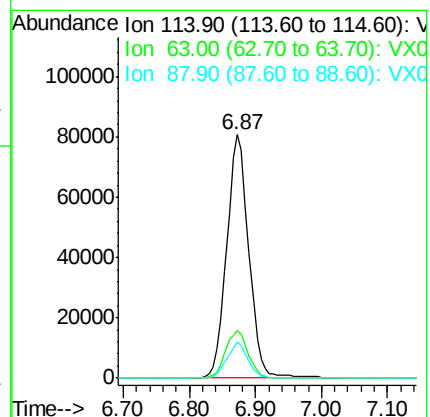
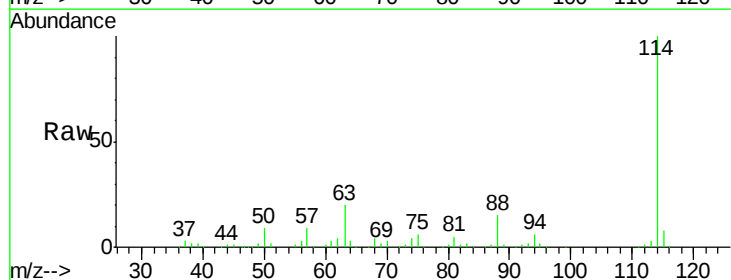
Tgt Ion: 114 Resp: 187193

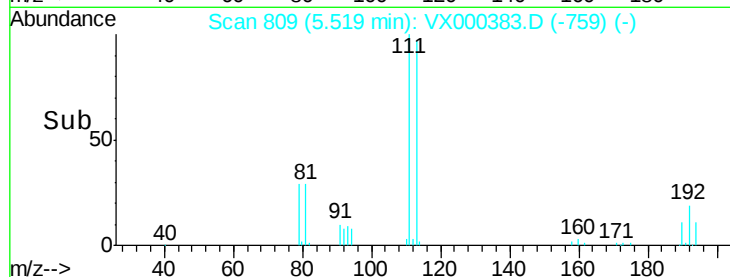
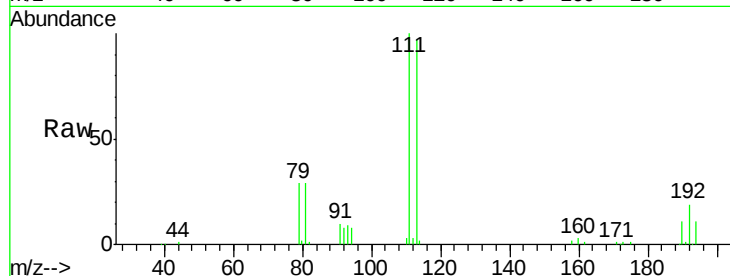
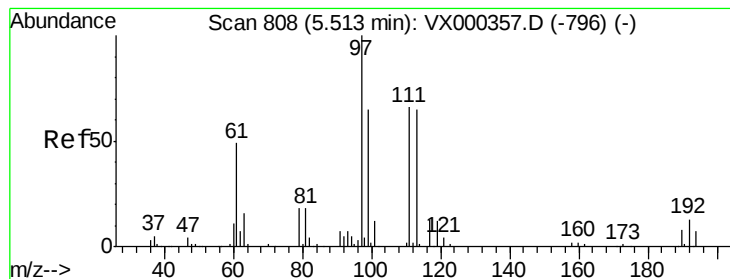
Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.4

88 14.7 0.0 27.0





#35

Dibromofluoromethane

Concen: 49.11 ug/l

RT: 5.52 min Scan# 809

Delta R.T. 0.01 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

DGA-TOP-LAYER-1-A

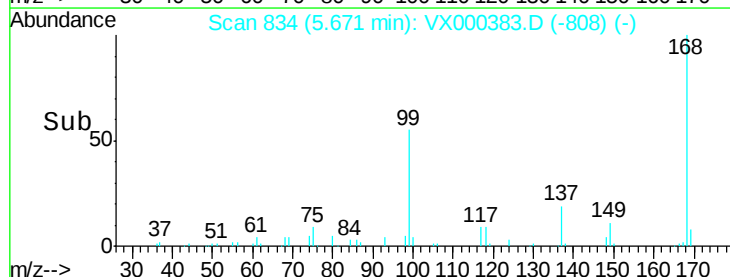
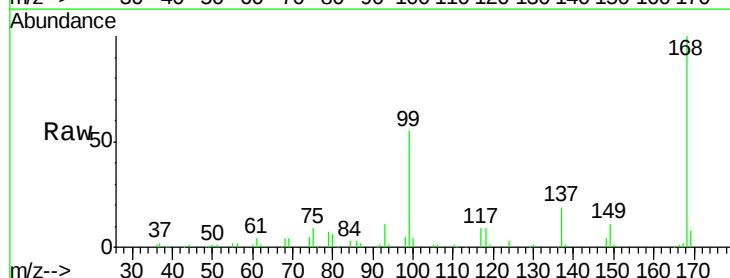
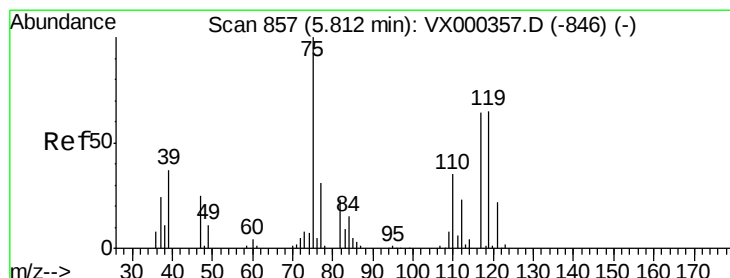
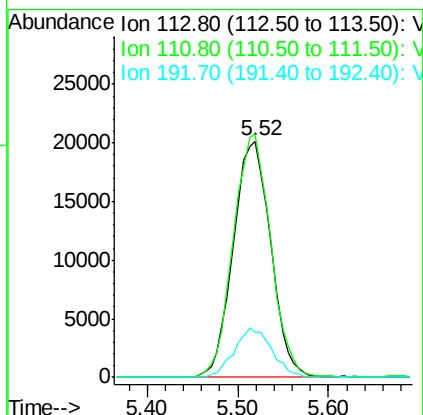
Tgt Ion:113 Resp: 57919

Ion Ratio Lower Upper

113 100

111 102.8 82.4 123.6

192 20.7 15.8 23.6



#36

1,1-Dichloropropene

Concen: 4.78 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.14 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

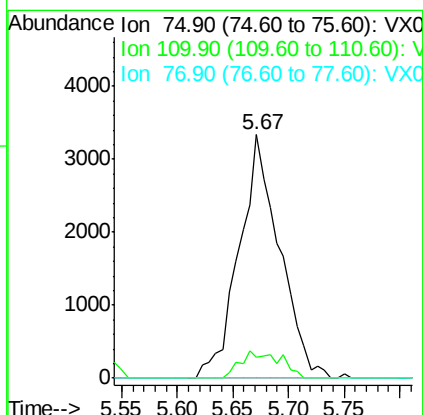
Tgt Ion: 75 Resp: 8387

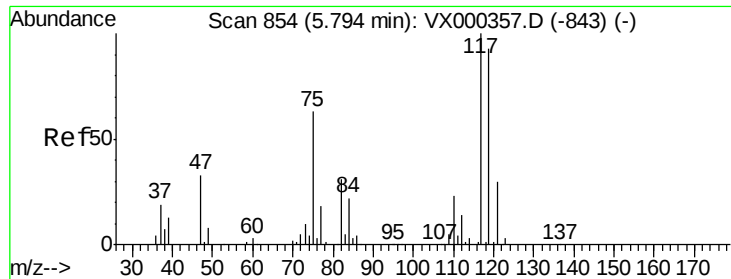
Ion Ratio Lower Upper

75 100

110 10.9 17.9 53.7#

77 0.0 24.0 36.0#

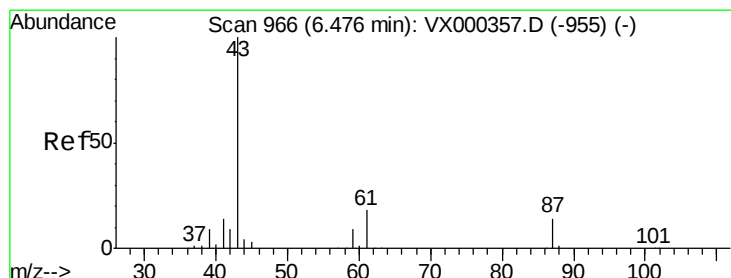
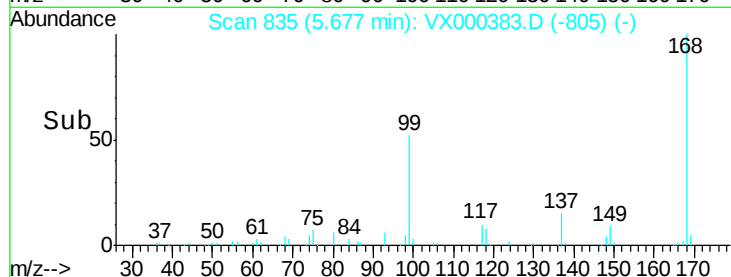
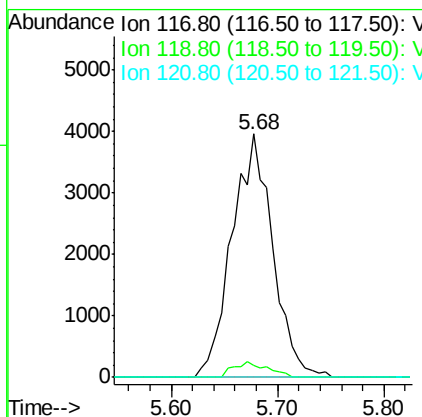
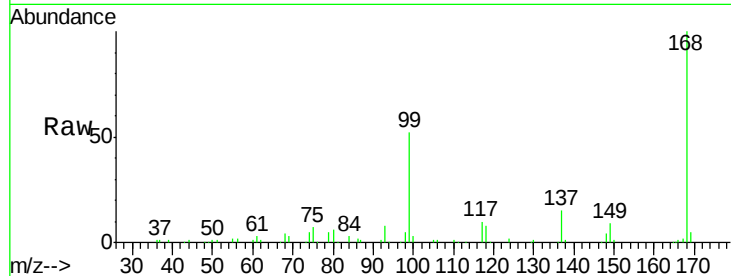




#38
Carbon Tetrachloride
Concen: 5.77 ug/l
RT: 5.68 min Scan# 835
Delta R.T. -0.12 min
Lab File: VX000383.D
Acq: 21 Mar 2018 14:21

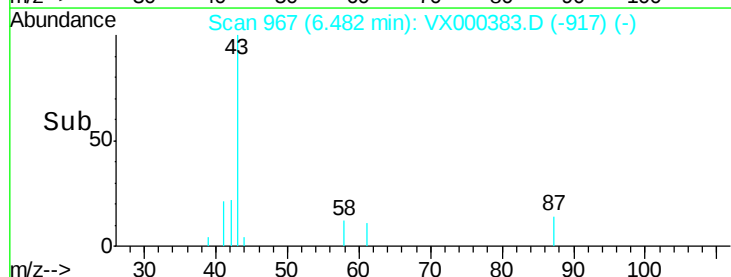
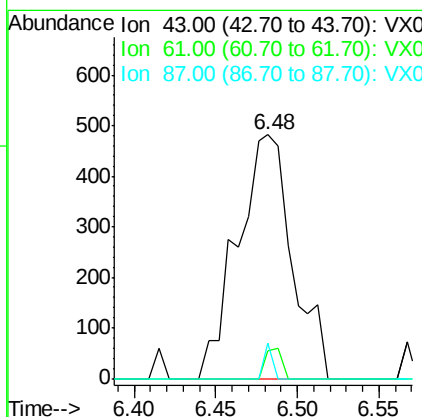
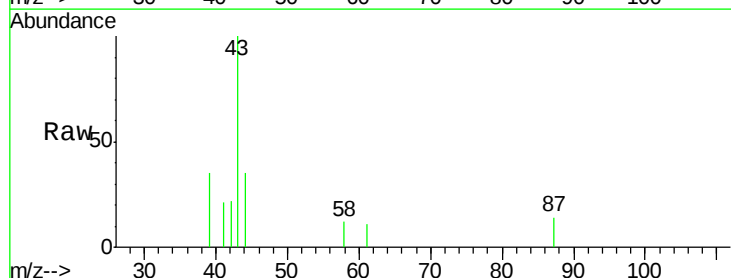
Instrument :
MSVOA_X
ClientSampleId :
DGA-TOP-LAYER-1-A

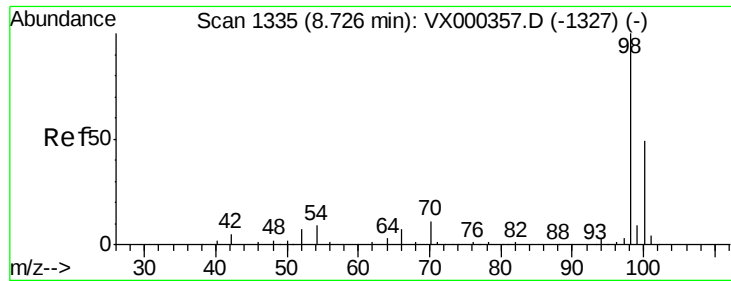
Tgt Ion:117 Resp: 10615
Ion Ratio Lower Upper
117 100
119 4.7 77.4 116.2#
121 0.0 24.8 37.2#



#43
Isopropyl Acetate
Concen: 0.32 ug/l
RT: 6.48 min Scan# 967
Delta R.T. 0.01 min
Lab File: VX000383.D
Acq: 21 Mar 2018 14:21

Tgt Ion: 43 Resp: 1132
Ion Ratio Lower Upper
43 100
61 3.7 14.4 21.6#
87 2.2 11.0 16.4#





#50

Toluene-d8

Concen: 47.95 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

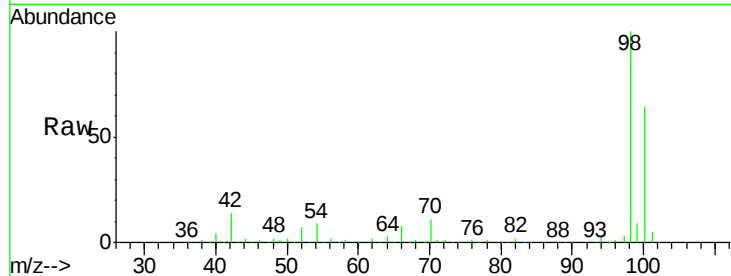
DGA-TOP-LAYER-1-A

Tgt Ion: 98 Resp: 234243

Ion Ratio Lower Upper

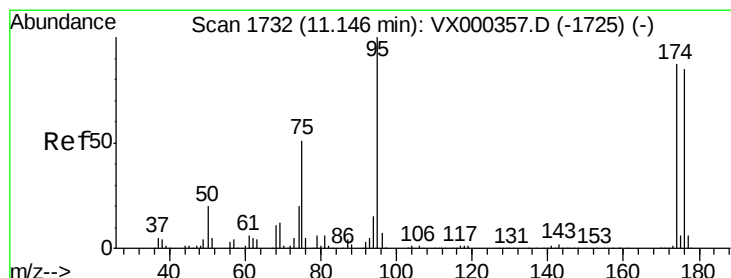
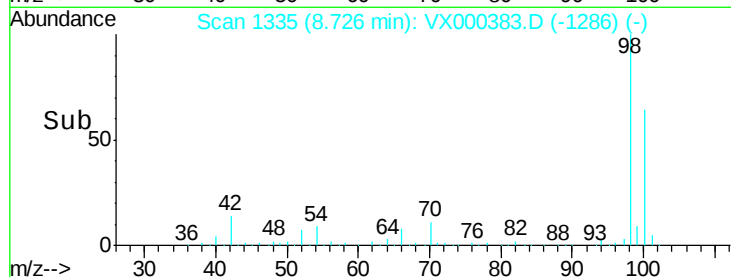
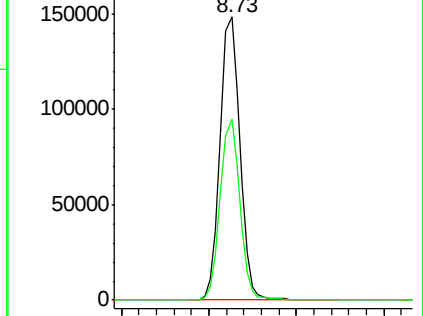
98 100

100 63.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 39.93 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

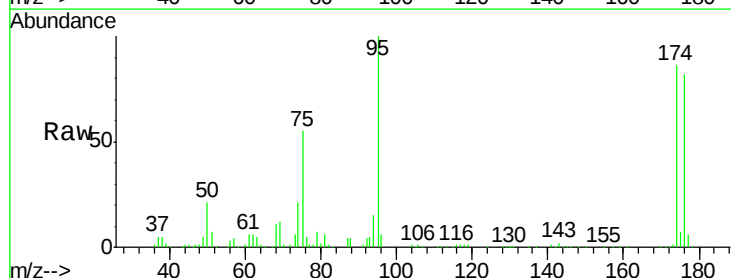
Tgt Ion: 95 Resp: 79482

Ion Ratio Lower Upper

95 100

174 88.9 0.0 173.6

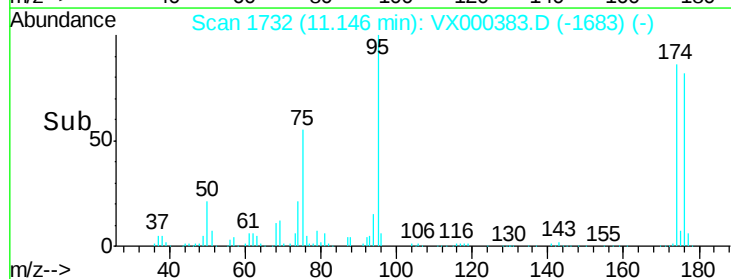
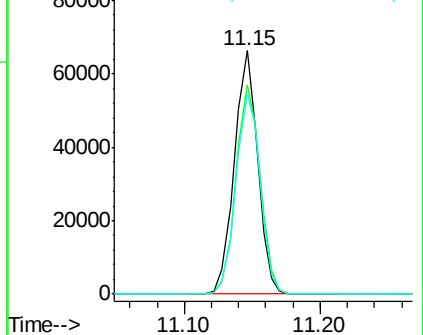
176 85.0 0.0 164.6

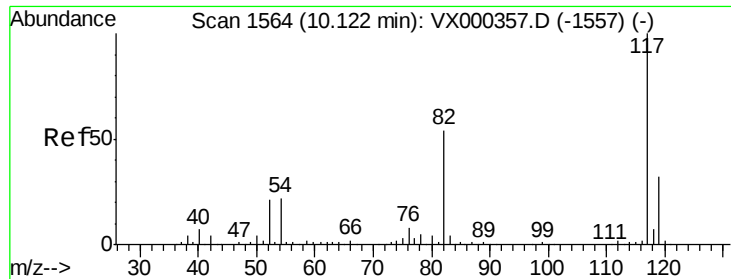


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

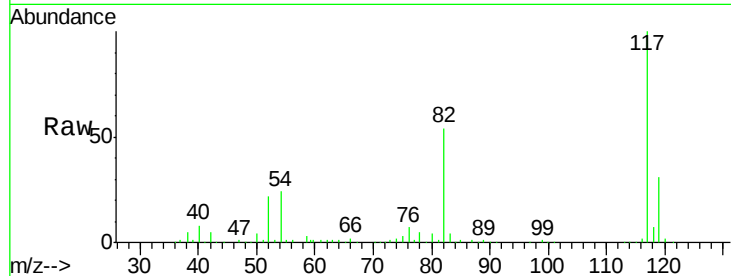




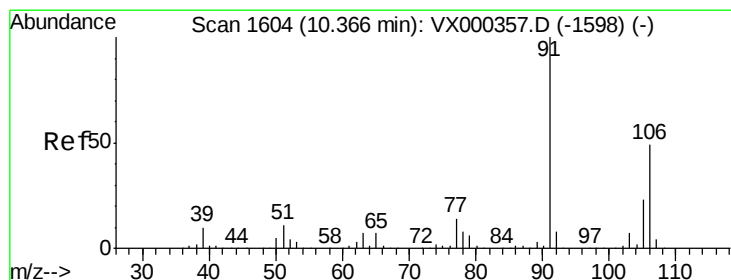
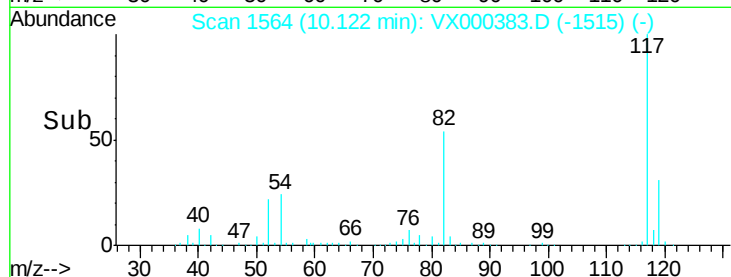
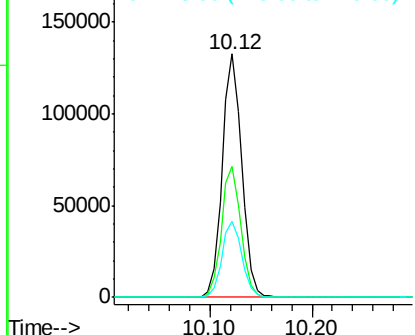
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000383.D
Acq: 21 Mar 2018 14:21

Instrument :
MSVOA_X
ClientSampleId :
DGA-TOP-LAYER-1-A

Tgt Ion:117 Resp: 176596
Ion Ratio Lower Upper
117 100
82 54.0 43.8 65.8
119 31.4 24.9 37.3

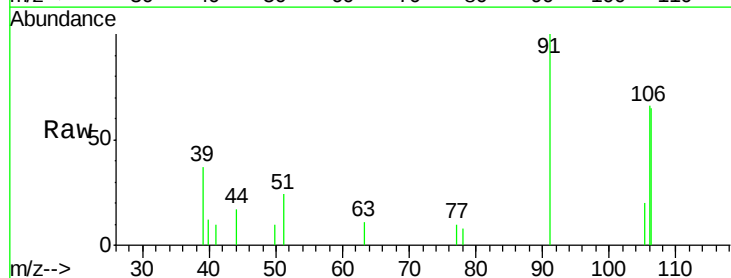


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

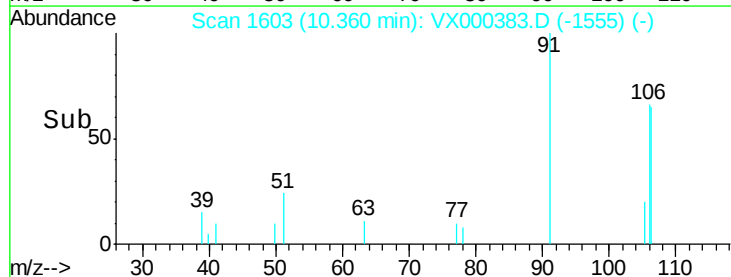
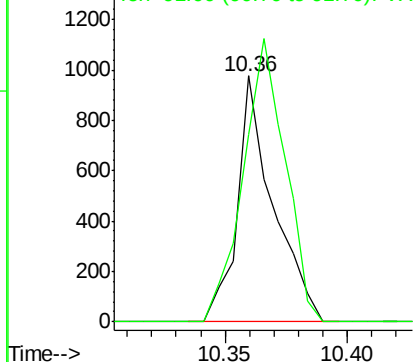


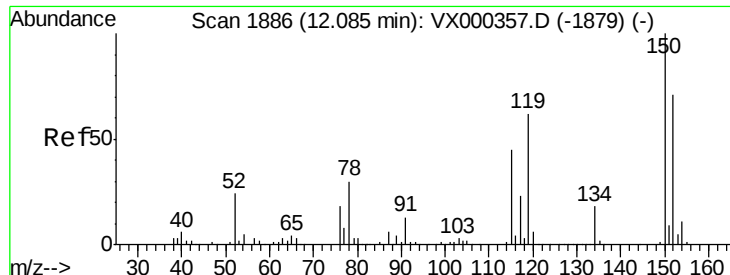
#68
m/p-Xylenes
Concen: 0.38 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.01 min
Lab File: VX000383.D
Acq: 21 Mar 2018 14:21

Tgt Ion:106 Resp: 986
Ion Ratio Lower Upper
106 100
91 137.0 163.4 245.2#



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# 1886

Delta R.T. -0.00 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

DGA-TOP-LAYER-1-A

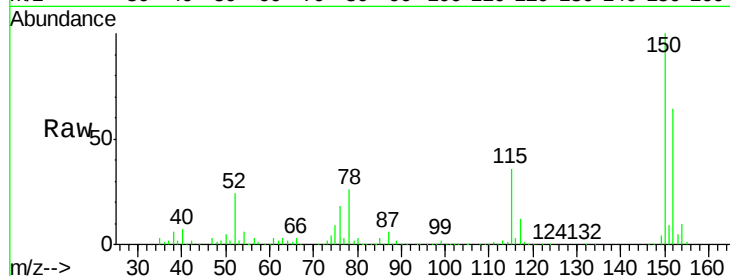
Tgt Ion:152 Resp: 85920

Ion Ratio Lower Upper

152 100

115 56.5 39.8 119.3

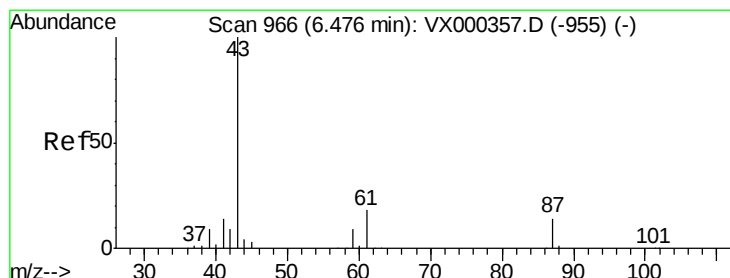
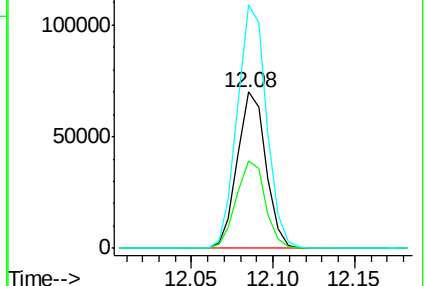
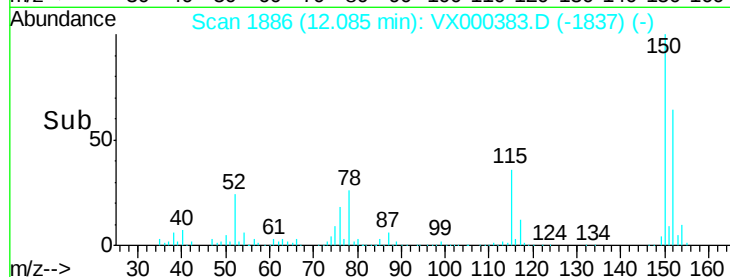
150 158.8 0.0 344.4



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

Tgt Ion: 43 Resp: 1132

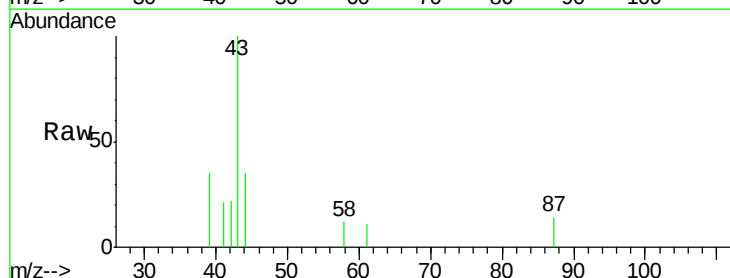
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 3.7 14.4 21.6#

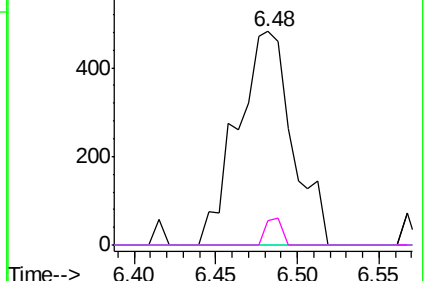
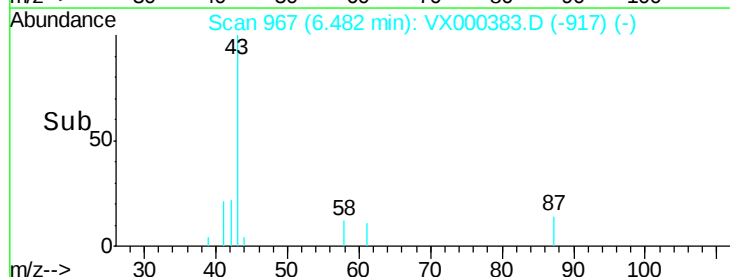


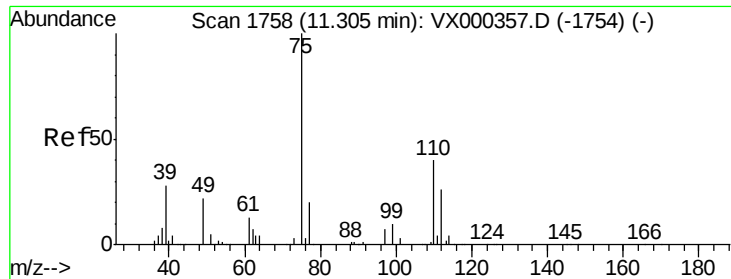
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#76

1,2,3-Trichloropropane

Concen: 24.39 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

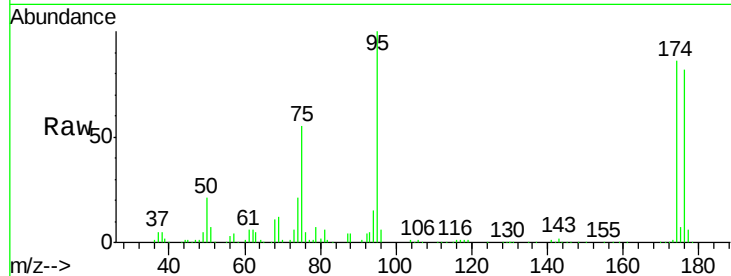
DGA-TOP-LAYER-1-A

Tgt Ion: 75 Resp: 45041

Ion Ratio Lower Upper

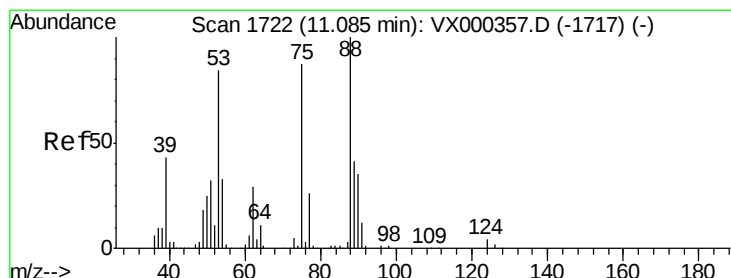
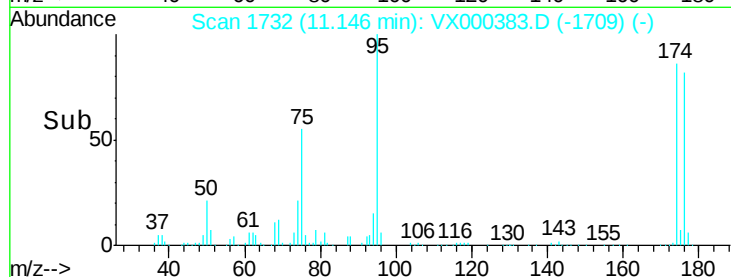
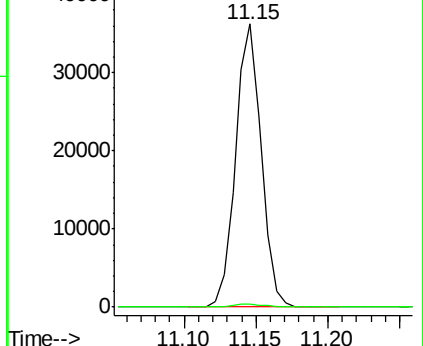
75 100

77 1.2 21.4 64.2#



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: 78.97 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

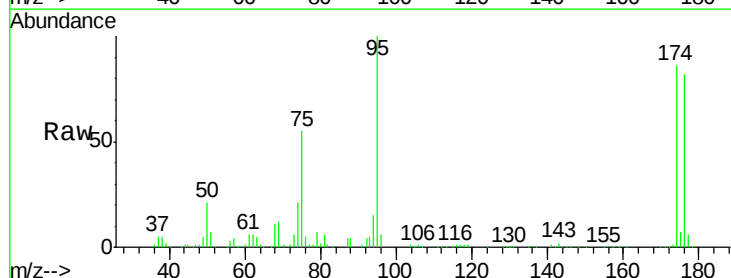
Tgt Ion: 75 Resp: 45041

Ion Ratio Lower Upper

75 100

53 0.0 80.7 121.1#

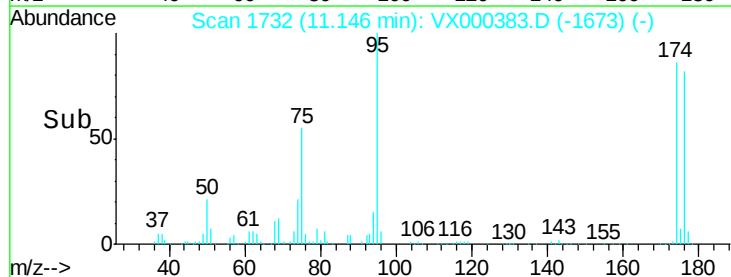
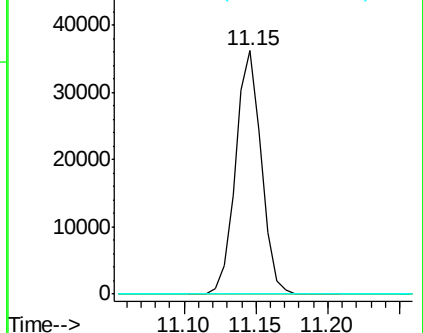
89 0.0 39.4 59.0#

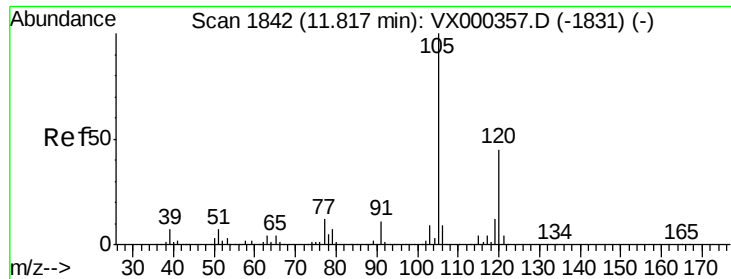


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#84

1,2,4-Trimethylbenzene

Concen: 0.25 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. -0.01 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

Instrument :

MSVOA_X

ClientSampleId :

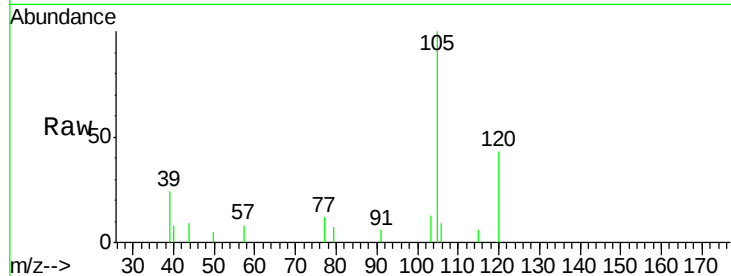
DGA-TOP-LAYER-1-A

Tgt Ion:105 Resp: 1272

Ion Ratio Lower Upper

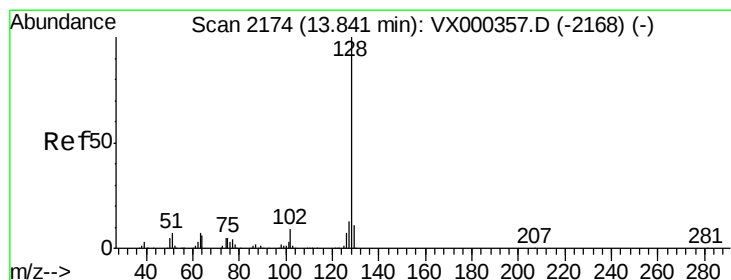
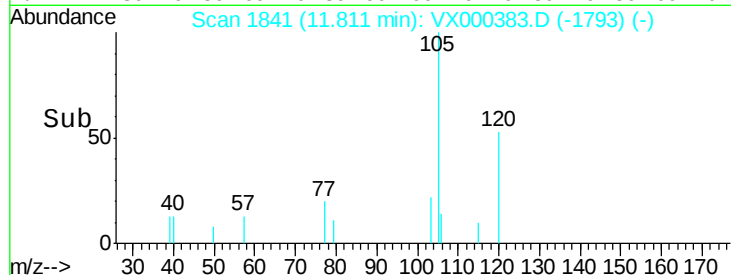
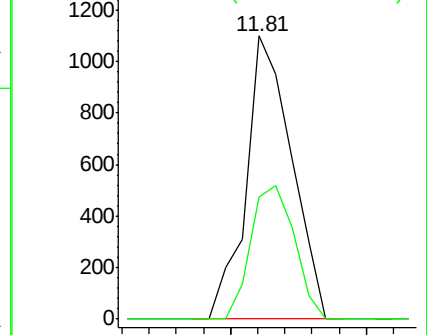
105 100

120 45.3 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#95

Naphthalene

Concen: 0.98 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. -0.00 min

Lab File: VX000383.D

Acq: 21 Mar 2018 14:21

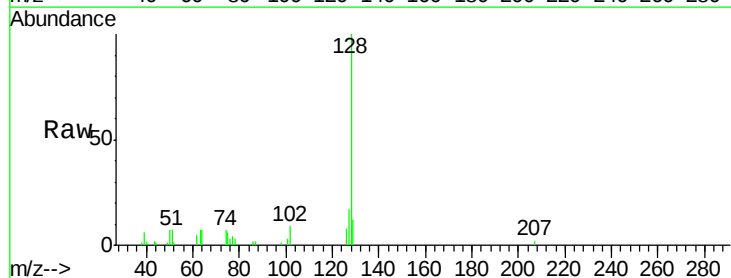
Tgt Ion:128 Resp: 6881

Ion Ratio Lower Upper

128 100

127 13.7 10.6 15.8

129 11.5 8.9 13.3



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

