

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX032618\
 Data File : VX000445.D
 Acq On : 26 Mar 2018 17:04
 Operator : JC/MD
 Sample : J2044-04 5X
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Mar 27 05:54:02 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	112339	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.88	114	201387	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	189430	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	90538	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.08	65	83433	56.90	ug/l	0.00
Spiked Amount			Recovery	=	113.80%	
35) Dibromofluoromethane	5.51	113	67411	53.13	ug/l	0.00
Spiked Amount			Recovery	=	106.26%	
50) Toluene-d8	8.73	98	250548	47.67	ug/l	0.00
Spiked Amount			Recovery	=	95.34%	
62) 4-Bromofluorobenzene	11.15	95	81956	38.52	ug/l	0.00
Spiked Amount			Recovery	=	77.04%	

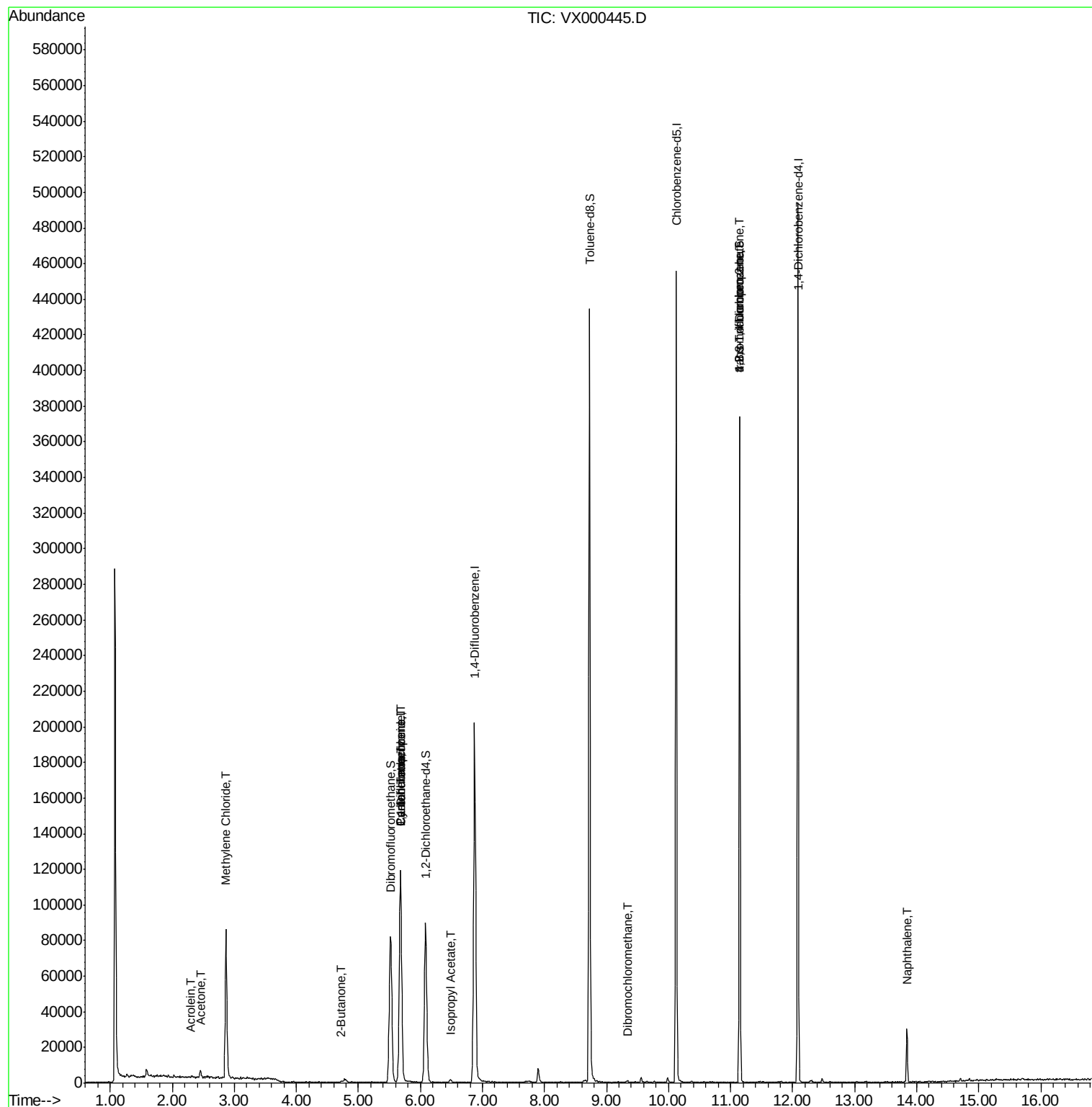
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.72	64	329	Below Cal		91
13) Acrolein	2.29	56	31	14.759	ug/l #	1
16) Acetone	2.45	43	5129	4.205	ug/l #	78
20) Methylene Chloride	2.87	84	36138	25.648	ug/l	96
25) 2-Butanone	4.71	43	458	0.334	ug/l #	49
31) Cyclohexane	5.68	56	2927	1.582	ug/l #	25
36) 1,1-Dichloropropene	5.68	75	8681	4.602	ug/l #	51
38) Carbon Tetrachloride	5.68	117	10971	5.544	ug/l #	16
43) Isopropyl Acetate	6.48	43	1791	0.467	ug/l #	89
60) Dibromochloromethane	9.34	129	81	4.157	ug/l #	12
74) N-amyl acetate	6.48	43	1791	Below Cal	#	84
76) 1,2,3-Trichloropropane	11.15	75	46259	23.774	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.15	75	46259	76.971	ug/l #	9
95) Naphthalene	13.84	128	16630	2.248	ug/l	96

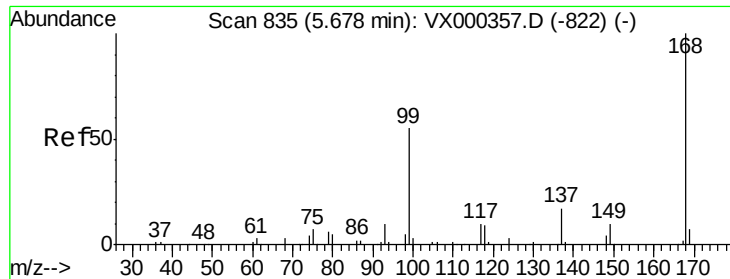
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000445.D

Acq: 26 Mar 2018 17:04

Instrument :

MSVOA_X

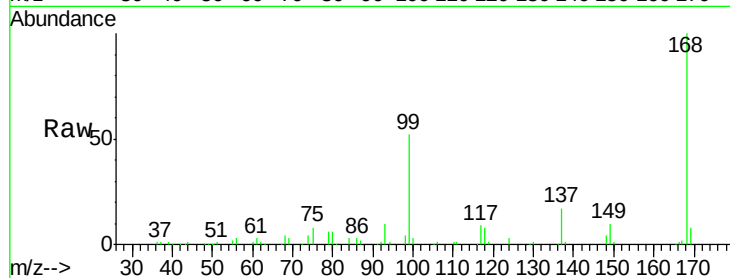
ClientSampleId :

Tot Ion:168 Resp: 112339

Ion Ratio Lower Upper

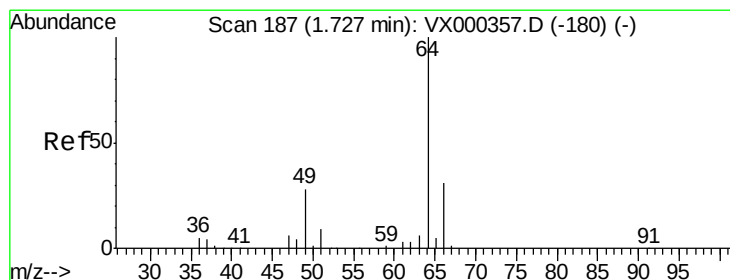
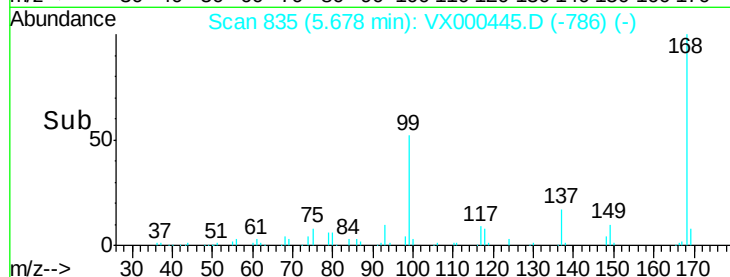
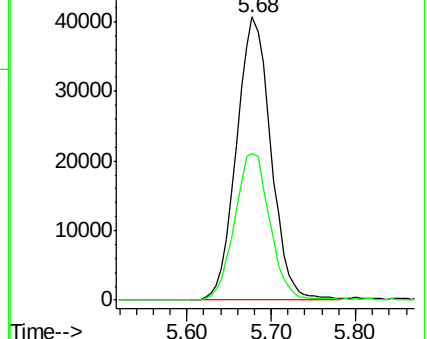
168 100

99 51.7 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: 1.72 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX000445.D

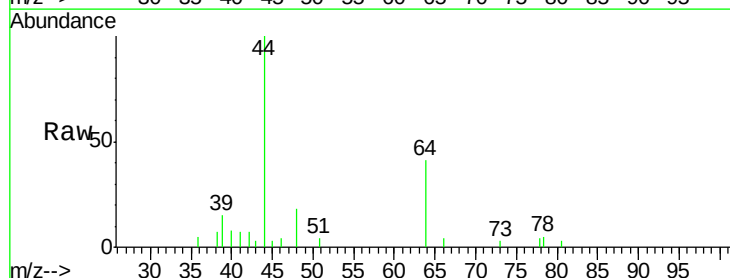
Acq: 26 Mar 2018 17:04

Tgt Ion: 64 Resp: 329

Ion Ratio Lower Upper

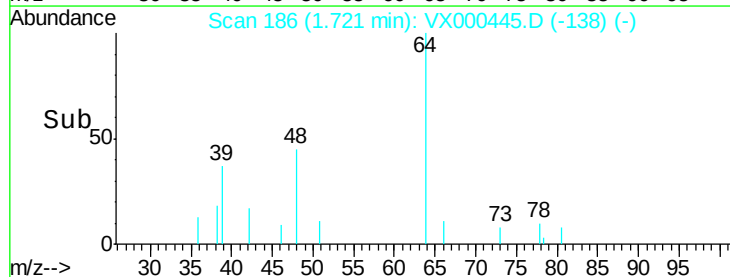
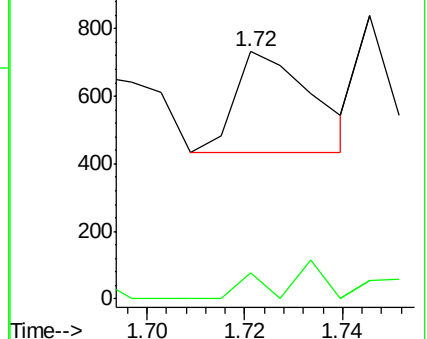
64 100

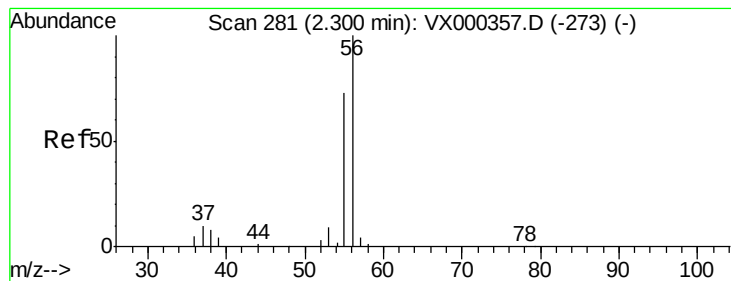
66 26.0 24.8 37.2



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#13

Acrolein

Concen: 14.759 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX000445.D

Acq: 26 Mar 2018 17:04

Instrument :

MSVOA_X

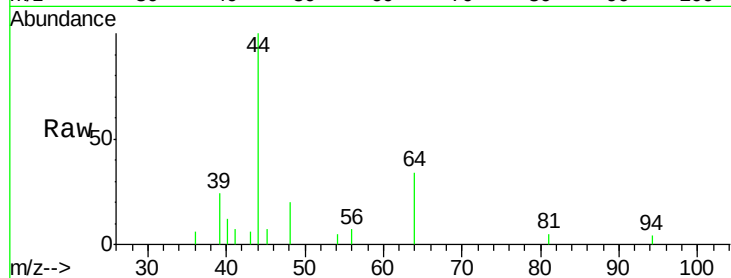
ClientSampleId :

Tot Ion: 56 Resp: 31

Ion Ratio Lower Upper

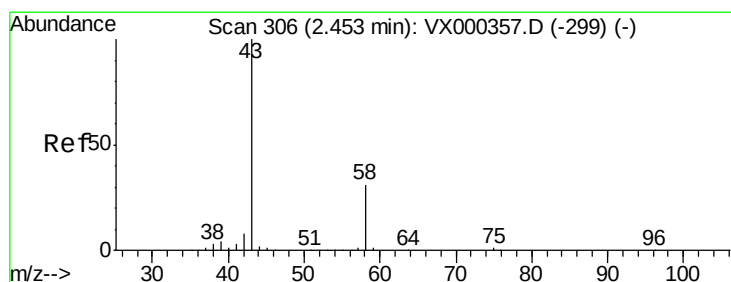
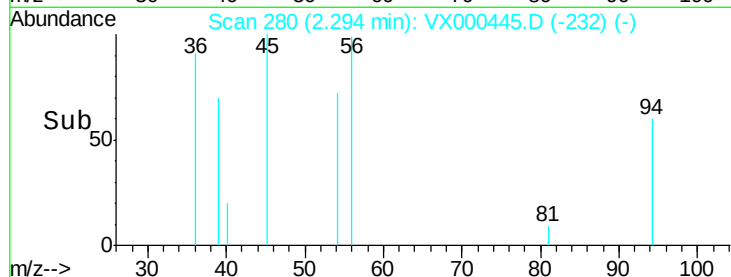
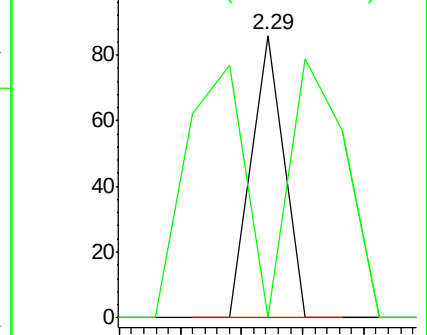
56 100

55 161.3 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: 4.205 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000445.D

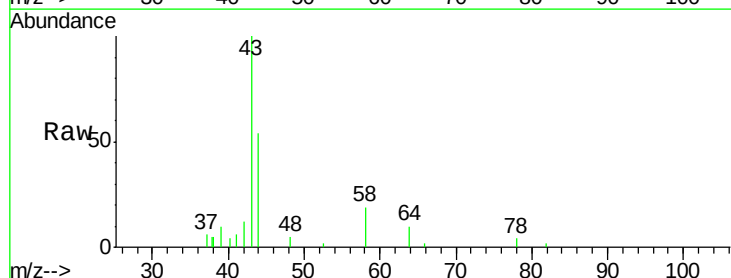
Acq: 26 Mar 2018 17:04

Tgt Ion: 43 Resp: 5129

Ion Ratio Lower Upper

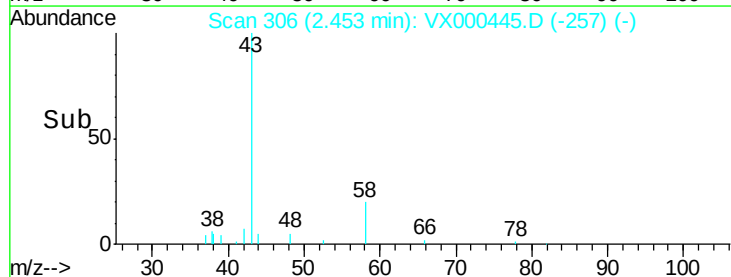
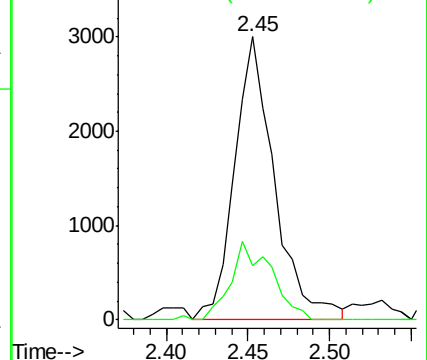
43 100

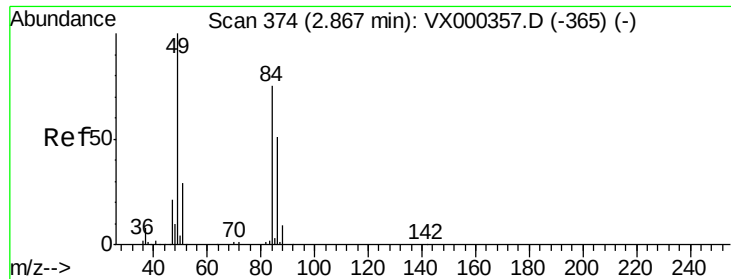
58 19.0 24.7 37.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

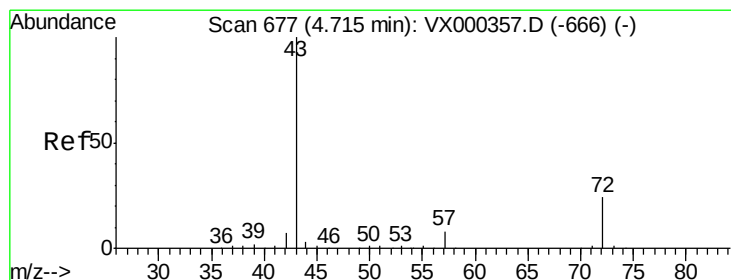
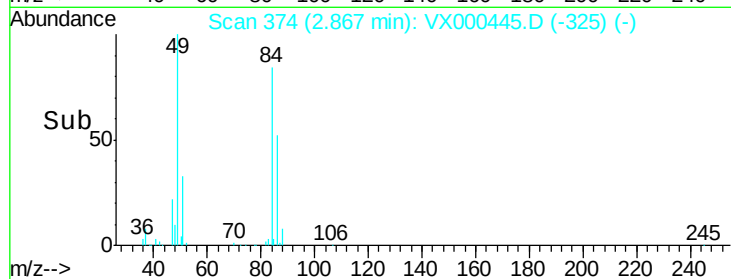
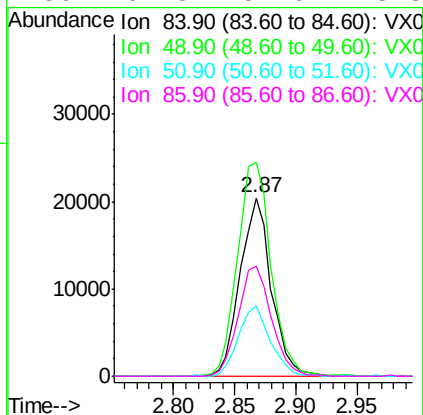
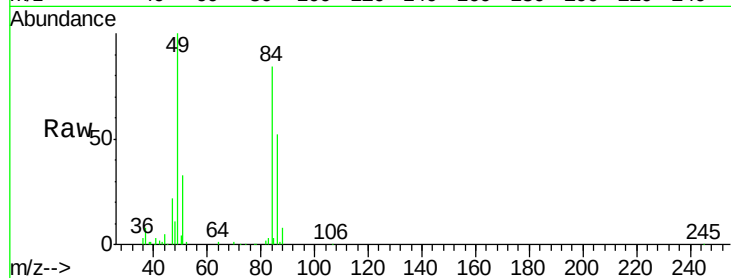




#20
Methylene Chloride
Concen: 25.648 ug/l
RT: 2.87 min Scan# 374
Delta R.T. -0.00 min
Lab File: VX000445.D
Acq: 26 Mar 2018 17:04

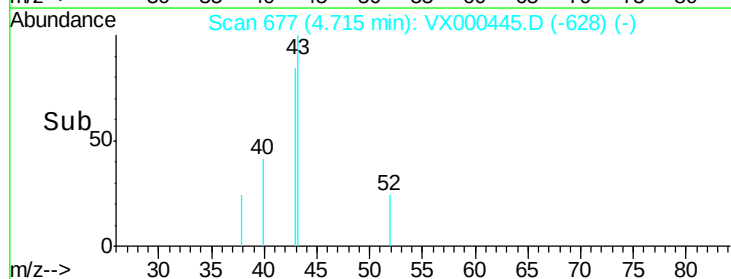
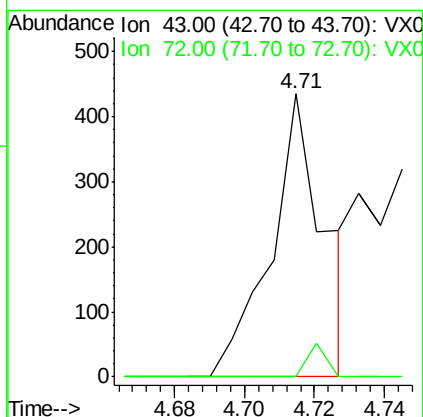
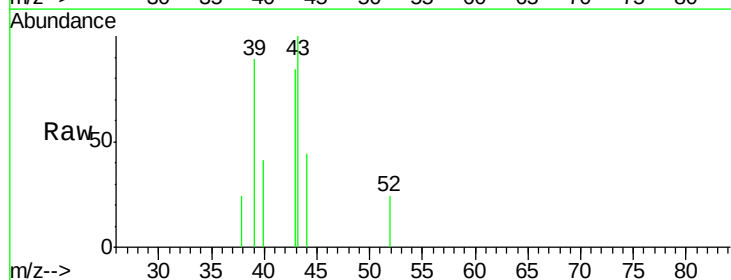
Instrument :
MSVOA_X
ClientSampleId :

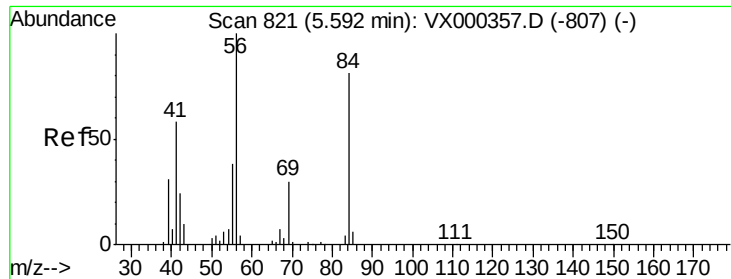
Tot Ion: 84 Resp: 36138
Ion Ratio Lower Upper
84 100
49 119.7 100.6 151.0
51 39.4 31.6 47.4
86 61.8 52.6 78.8



#25
2-Butanone
Concen: 0.334 ug/l
RT: 4.71 min Scan# 677
Delta R.T. -0.00 min
Lab File: VX000445.D
Acq: 26 Mar 2018 17:04

Tgt Ion: 43 Resp: 458
Ion Ratio Lower Upper
43 100
72 0.0 21.0 31.6#

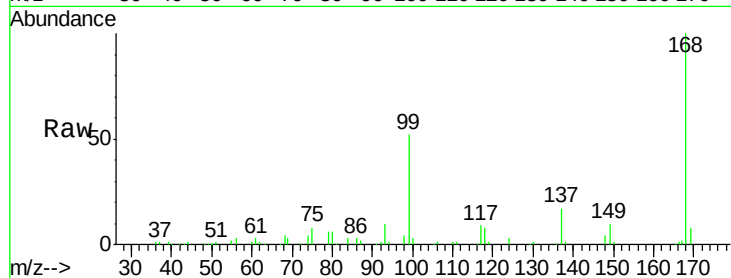




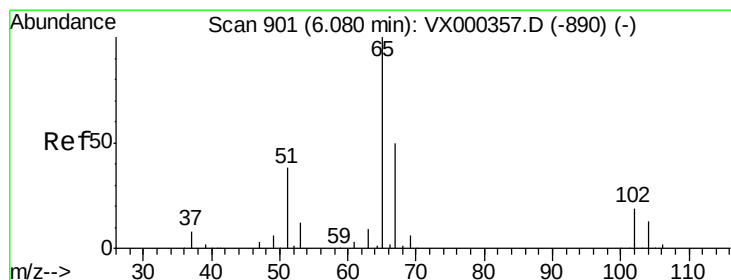
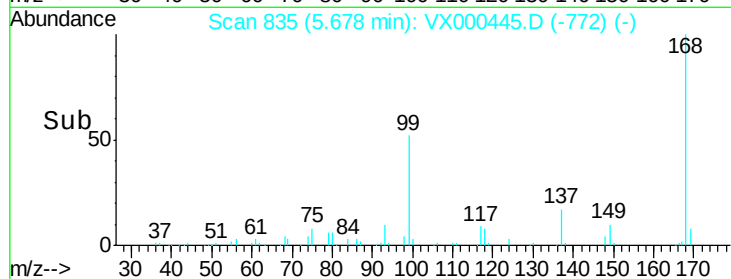
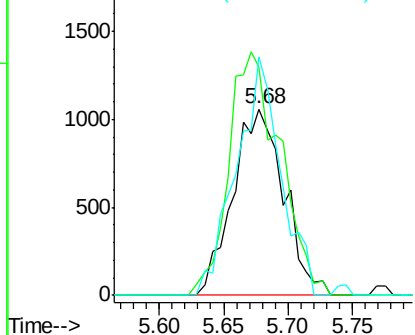
#31
Cyclohexane
Concen: 1.582 ug/l
RT: 5.68 min Scan# 835
Delta R.T. 0.09 min
Lab File: VX000445.D
Acq: 26 Mar 2018 17:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 2927
Ion Ratio Lower Upper
56 100
69 122.6 23.4 35.0#
84 128.3 71.0 106.4#

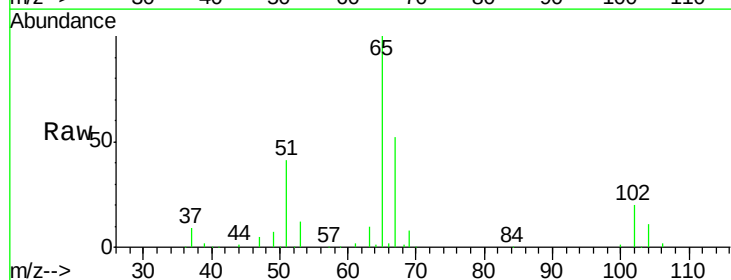


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

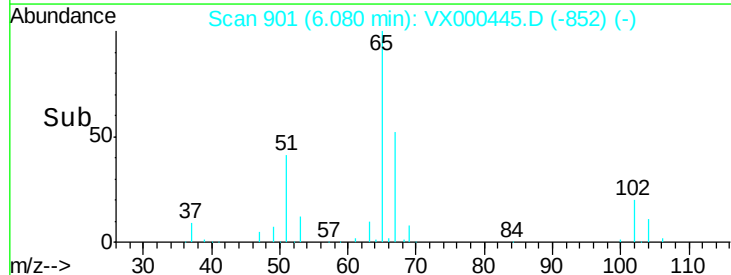
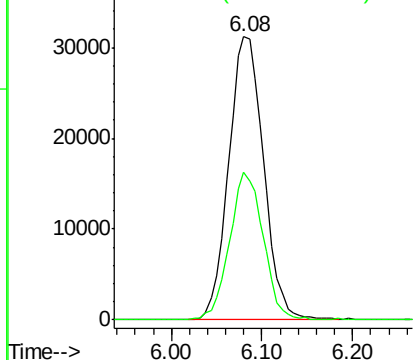


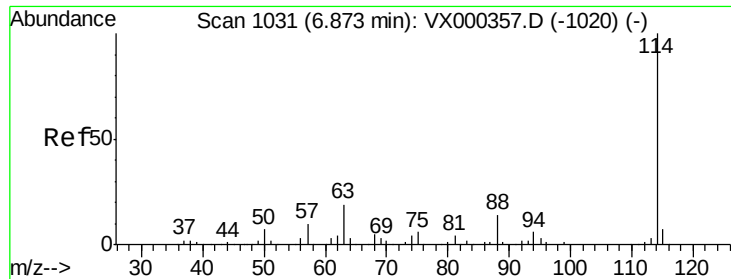
#33
1,2-Dichloroethane-d4
Concen: 56.896 ug/l
RT: 6.08 min Scan# 901
Delta R.T. 0.00 min
Lab File: VX000445.D
Acq: 26 Mar 2018 17:04

Tgt Ion: 65 Resp: 83433
Ion Ratio Lower Upper
65 100
67 50.1 0.0 103.2



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.88 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VX000445.D

Acq: 26 Mar 2018 17:04

Instrument :

MSVOA_X

ClientSampled :

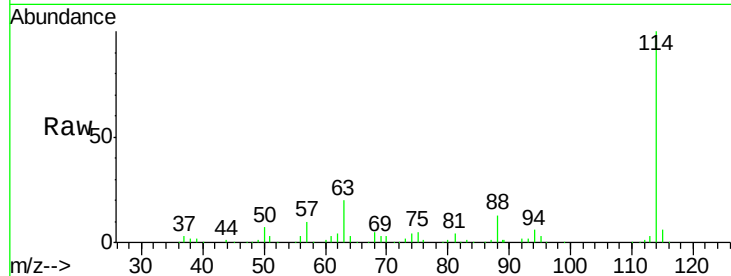
Tot Ion:114 Resp: 201387

Ion Ratio Lower Upper

114 100

63 20.4 0.0 38.4

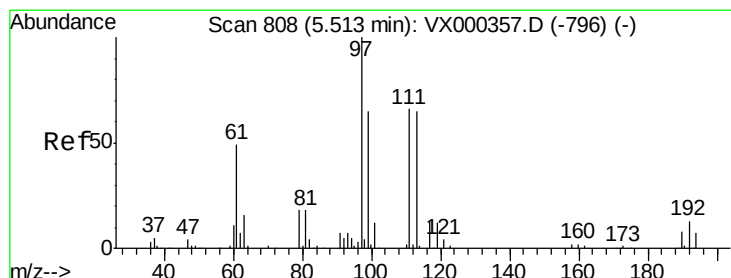
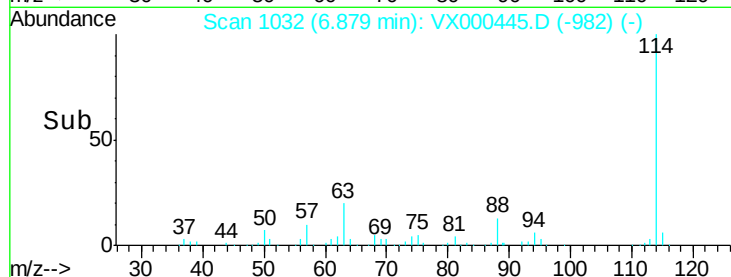
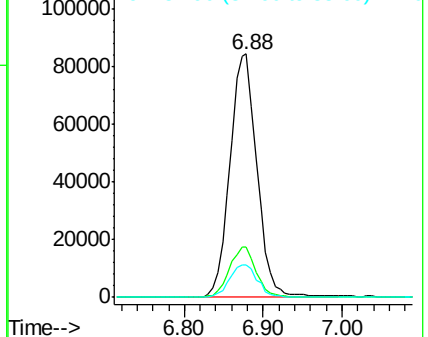
88 13.1 0.0 27.0



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: 53.125 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000445.D

Acq: 26 Mar 2018 17:04

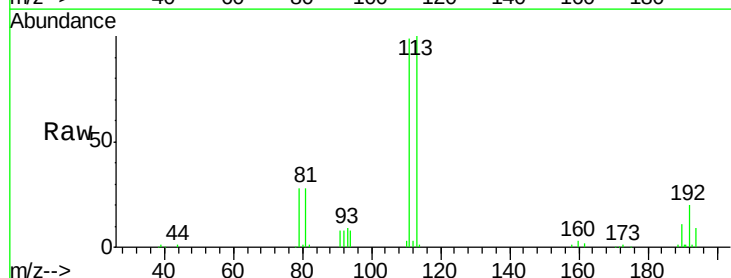
Tgt Ion:113 Resp: 67411

Ion Ratio Lower Upper

113 100

111 99.9 82.4 123.6

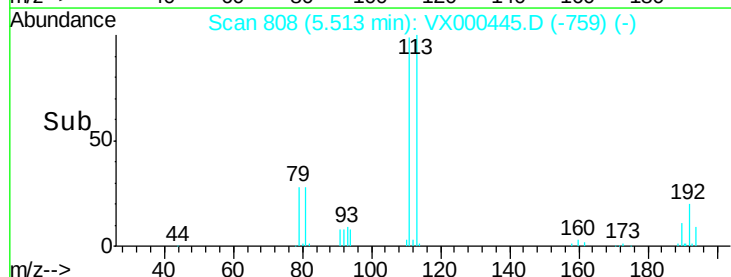
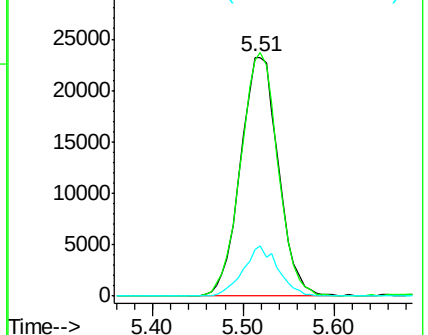
192 19.3 15.8 23.6

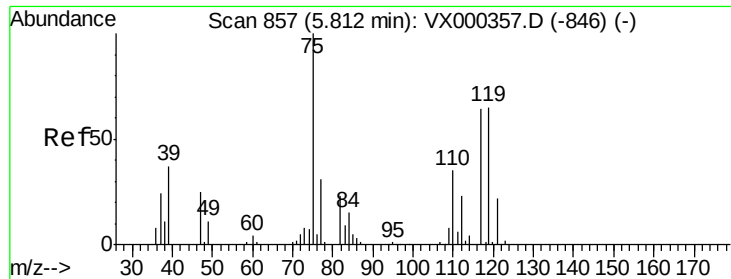


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

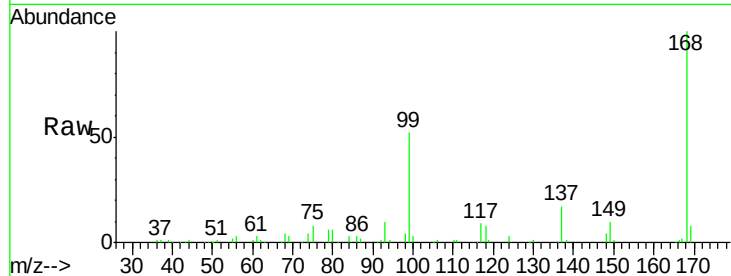




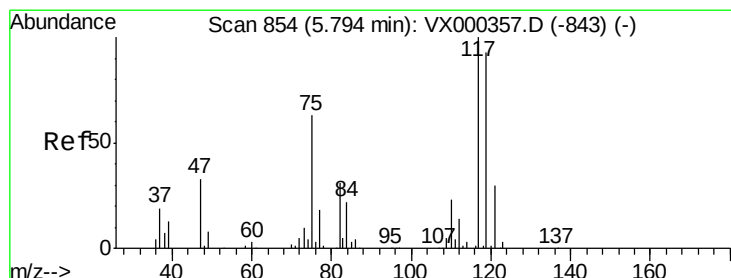
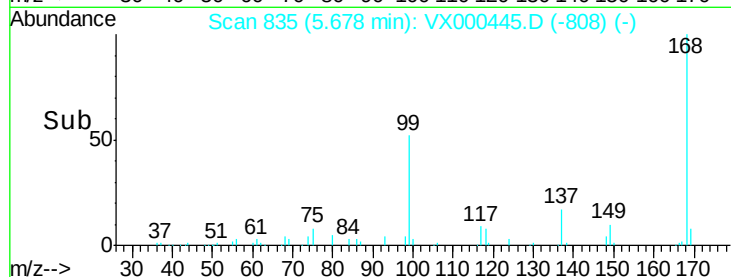
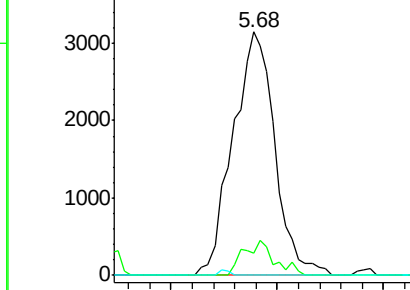
#36
 1,1-Dichloropropene
 Concen: 4.602 ug/l
 RT: 5.68 min Scan# 835
 Delta R.T. -0.13 min
 Lab File: VX000445.D
 Acq: 26 Mar 2018 17:04

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion: 75 Resp: 8681
 Ion Ratio Lower Upper
 75 100
 110 10.7 17.9 53.7#
 77 0.0 24.0 36.0#

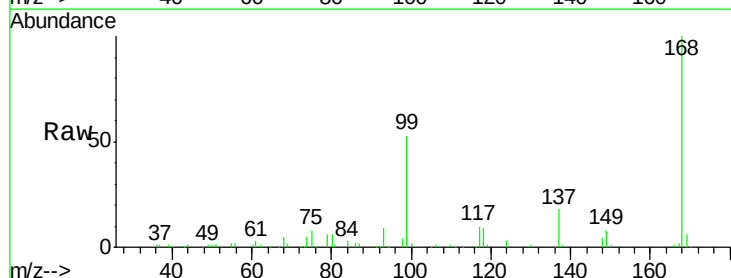


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

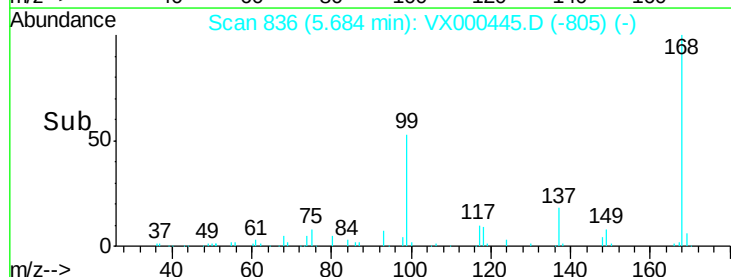
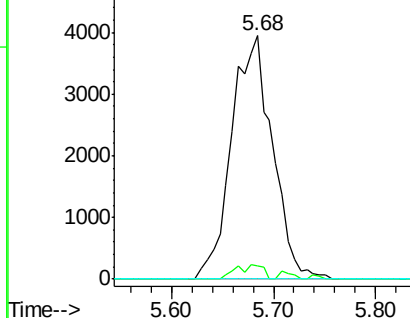


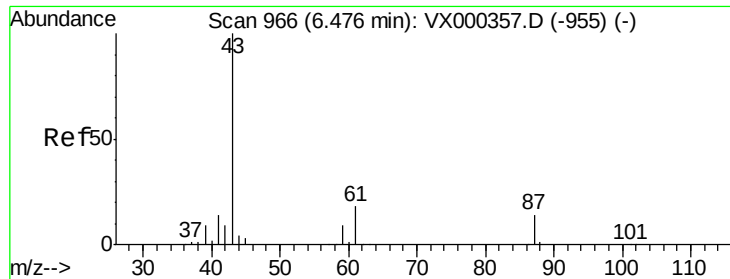
#38
 Carbon Tetrachloride
 Concen: 5.544 ug/l
 RT: 5.68 min Scan# 836
 Delta R.T. -0.11 min
 Lab File: VX000445.D
 Acq: 26 Mar 2018 17:04

Tgt Ion: 117 Resp: 10971
 Ion Ratio Lower Upper
 117 100
 119 5.4 77.4 116.2#
 121 0.0 24.8 37.2#



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





#43

Isopropyl Acetate

Concen: 0.467 ug/l

RT: 6.48 min Scan# 967

Delta R.T. 0.01 min

Lab File: VX000445.D

Acq: 26 Mar 2018 17:04

Instrument :

MSVOA_X

ClientSampleId :

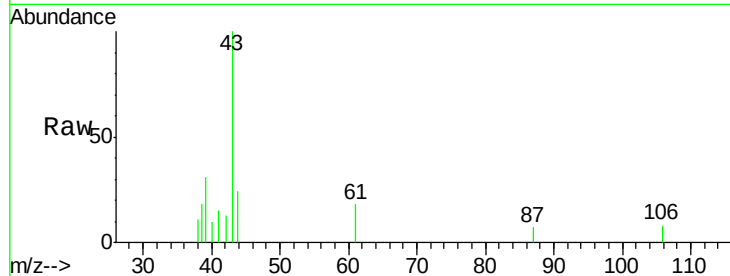
Tot Ion: 43 Resp: 1791

Ion Ratio Lower Upper

43 100

61 11.1 14.4 21.6#

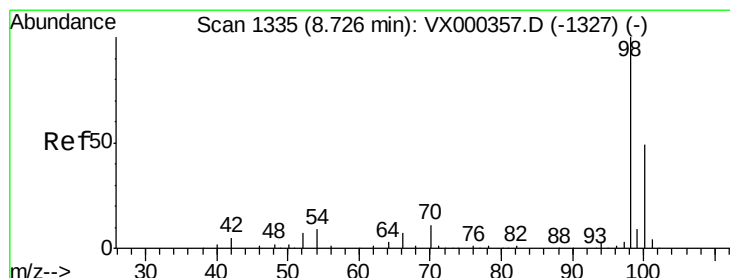
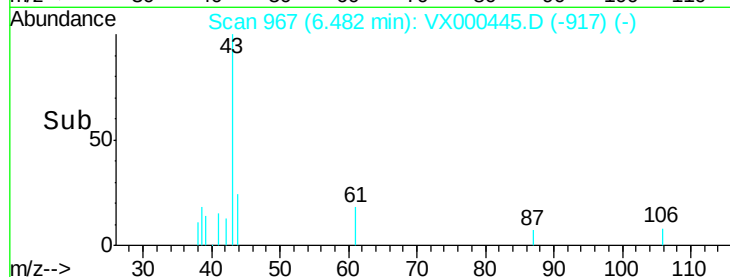
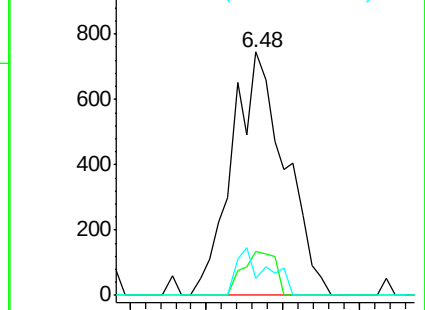
87 11.3 11.0 16.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 47.675 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. -0.00 min

Lab File: VX000445.D

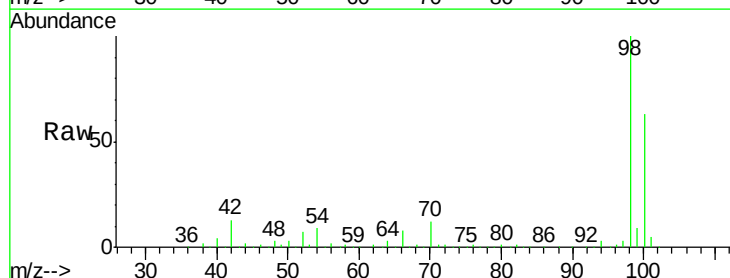
Acq: 26 Mar 2018 17:04

Tgt Ion: 98 Resp: 250548

Ion Ratio Lower Upper

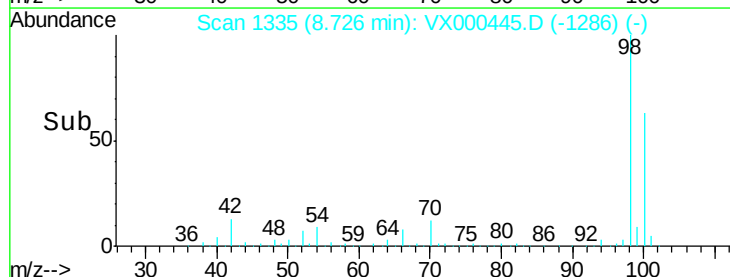
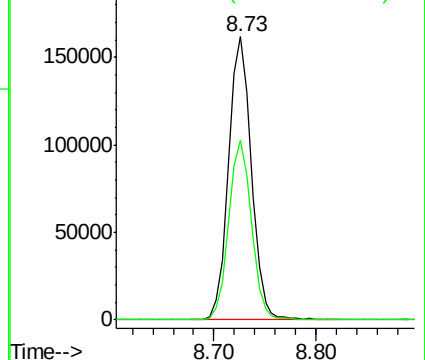
98 100

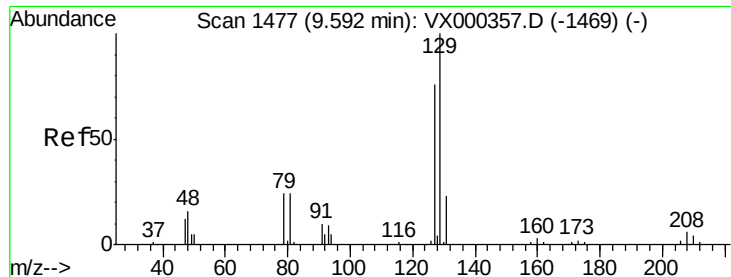
100 63.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 4.157 ug/l

RT: 9.34 min Scan# 1436

Delta R.T. -0.25 min

Lab File: VX000445.D

Acq: 26 Mar 2018 17:04

Instrument :

MSVOA_X

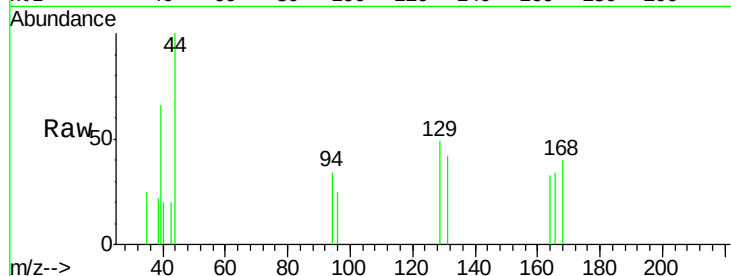
ClientSampleId :

Tot Ion:129 Resp: 81

Ion Ratio Lower Upper

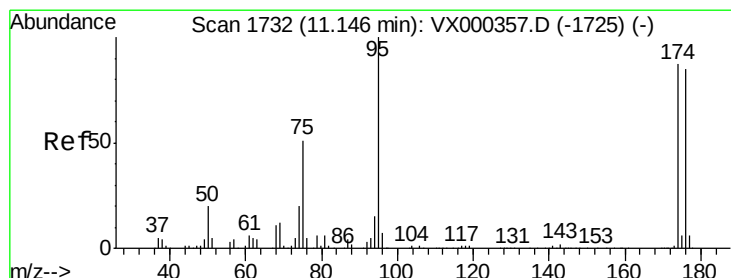
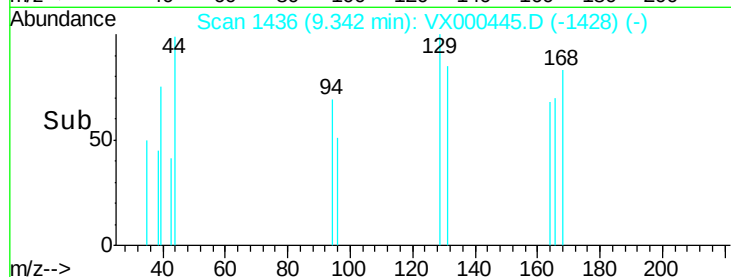
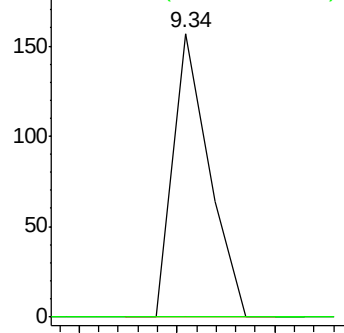
129 100

127 0.0 37.9 113.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 38.524 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000445.D

Acq: 26 Mar 2018 17:04

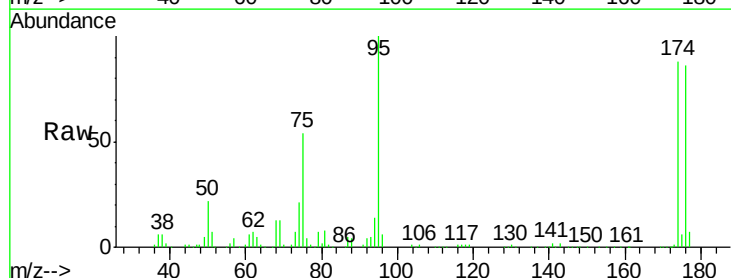
Tgt Ion: 95 Resp: 81956

Ion Ratio Lower Upper

95 100

174 89.2 0.0 173.6

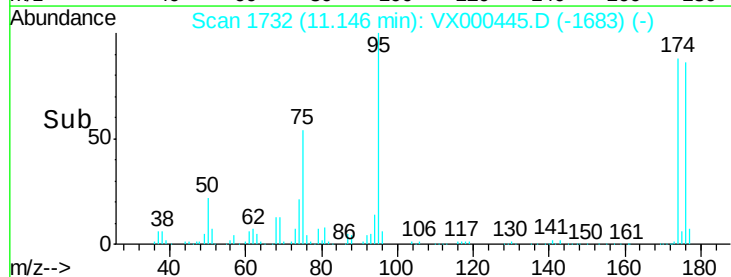
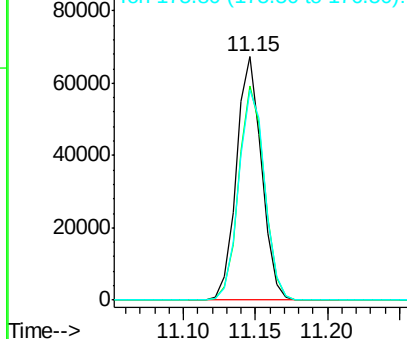
176 89.0 0.0 164.6

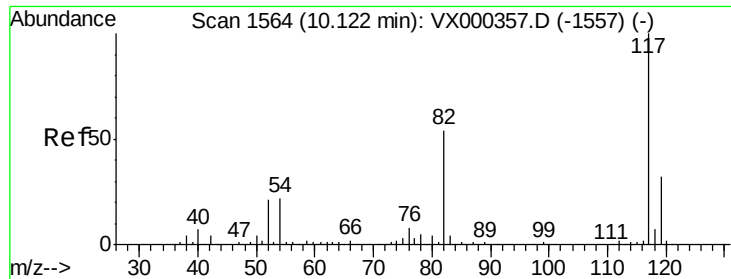


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

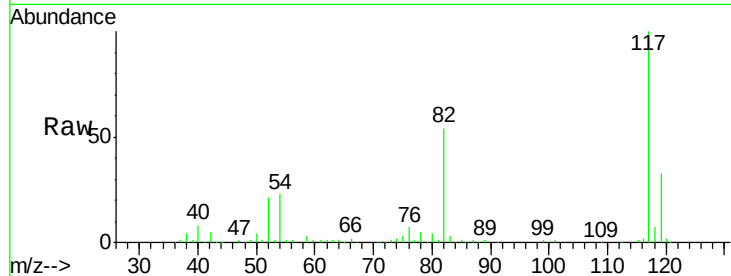




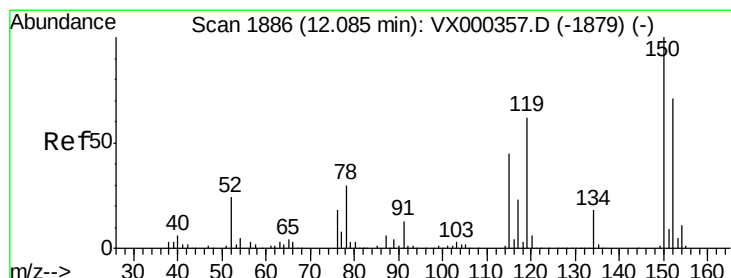
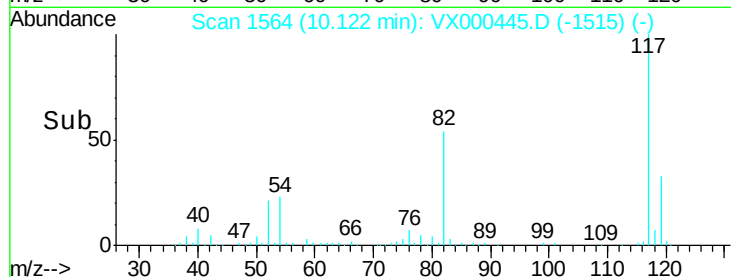
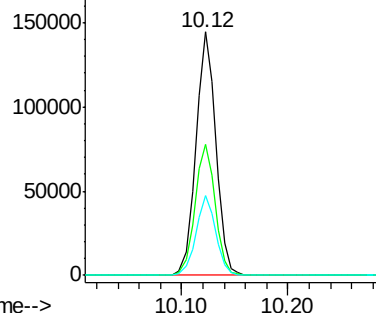
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1564
Delta R.T. -0.00 min
Lab File: VX000445.D
Acq: 26 Mar 2018 17:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 189430
Ion Ratio Lower Upper
117 100
82 53.9 43.8 65.8
119 32.8 24.9 37.3

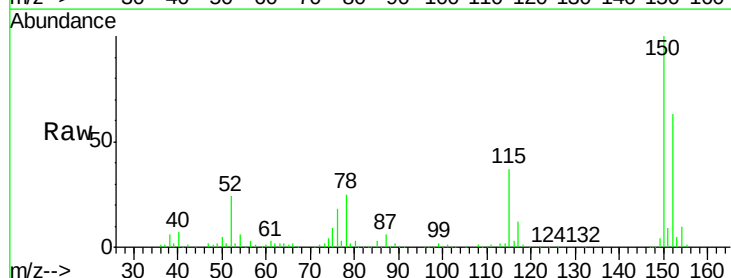


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

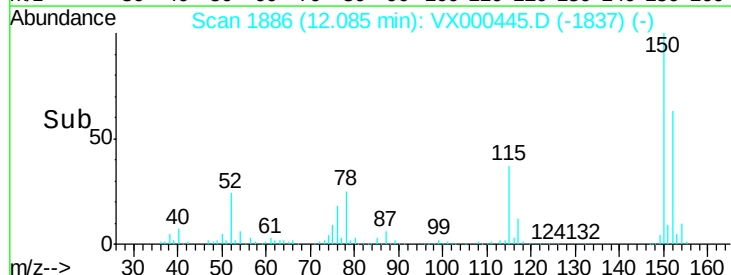
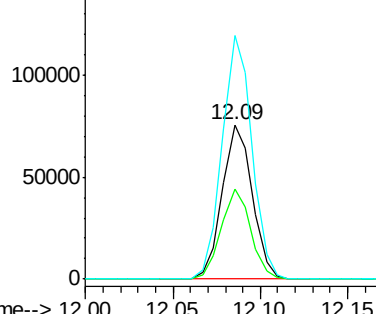


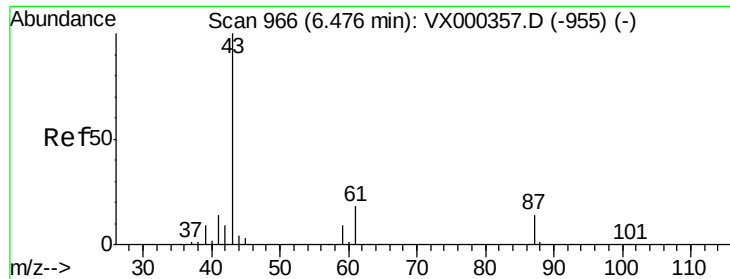
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX000445.D
Acq: 26 Mar 2018 17:04

Tgt Ion:152 Resp: 90538
Ion Ratio Lower Upper
152 100
115 57.3 39.8 119.3
150 156.3 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

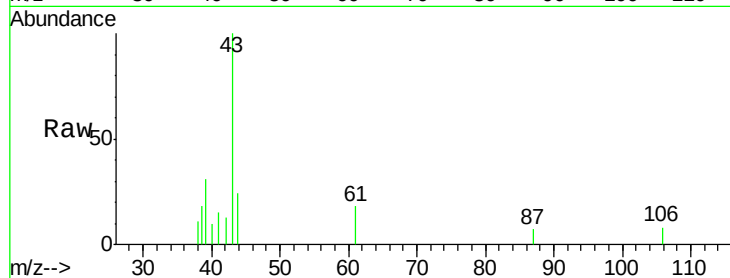




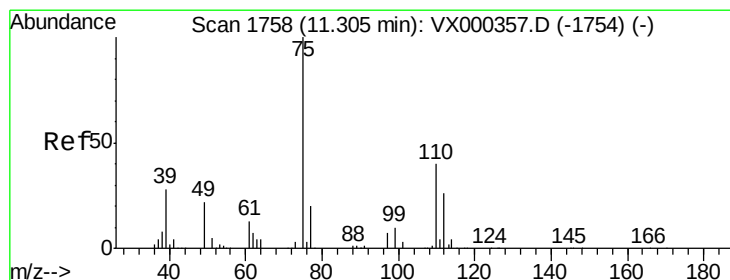
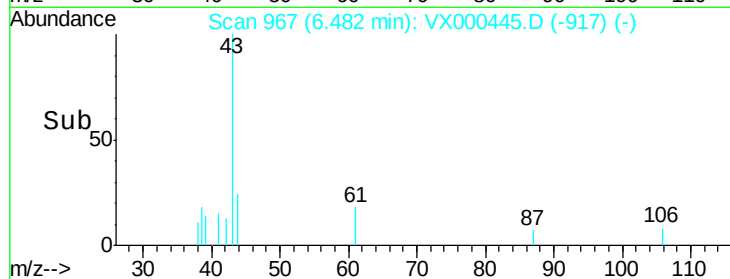
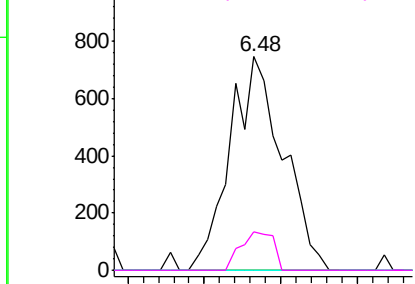
#74
N-amvl acetate
Concen: Below Cal
RT: 6.48 min Scan# 967
Delta R.T. 0.01 min
Lab File: VX000445.D
Acq: 26 Mar 2018 17:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 1791
Ion Ratio Lower Upper
43 100
70 0.0 0.0 0.0
55 0.0 0.0 0.0
61 11.1 14.4 21.6#

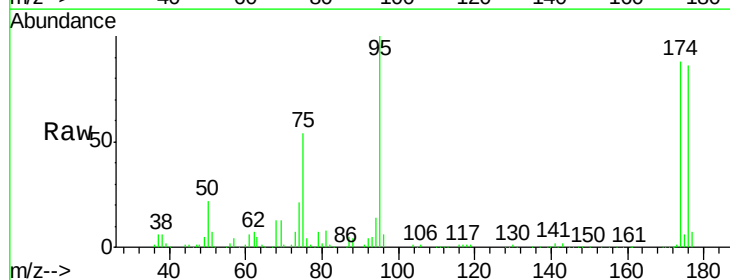


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 70.00 (69.70 to 70.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 61.00 (60.70 to 61.70): VX0

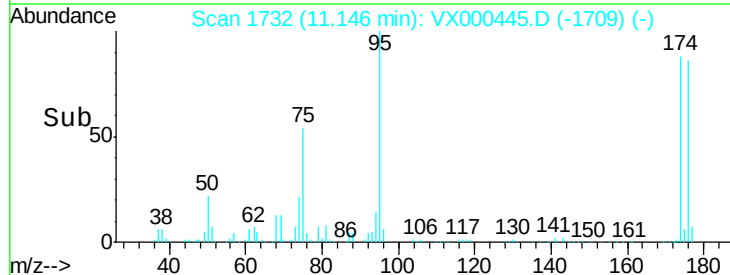
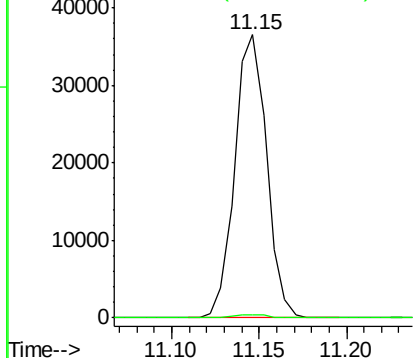


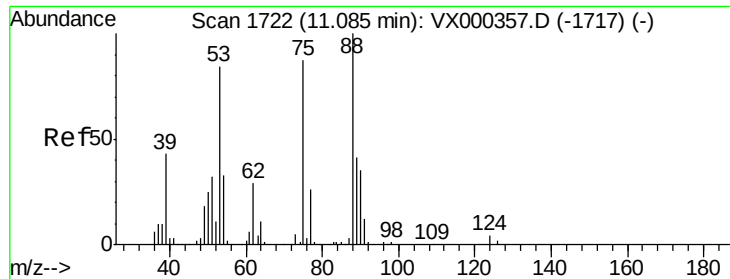
#76
1,2,3-Trichloropropane
Concen: 23.774 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. -0.16 min
Lab File: VX000445.D
Acq: 26 Mar 2018 17:04

Tgt Ion: 75 Resp: 46259
Ion Ratio Lower Upper
75 100
77 1.1 21.4 64.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0

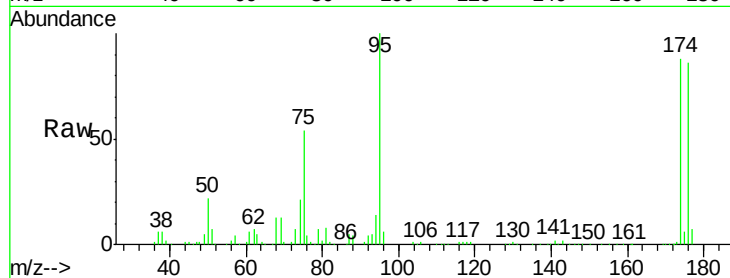




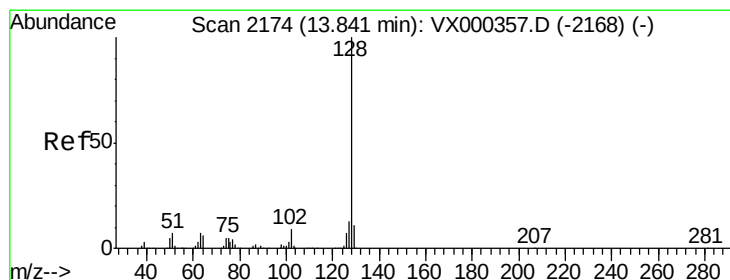
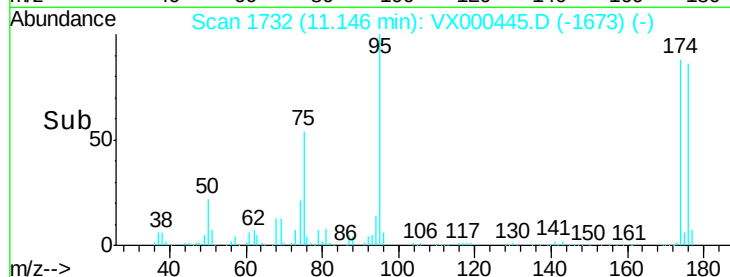
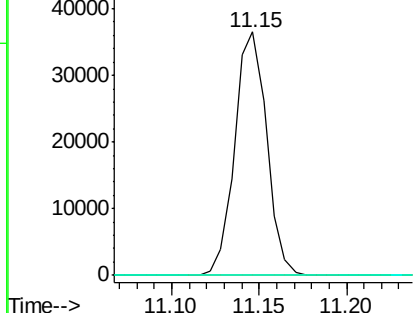
#81
trans-1,4-Dichloro-2-butene
Concen: 76.971 ug/l
RT: 11.15 min Scan# 1732
Delta R.T. 0.06 min
Lab File: VX000445.D
Acq: 26 Mar 2018 17:04

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 75 Resp: 46259
Ion Ratio Lower Upper
75 100
53 0.0 80.7 121.1#
89 0.0 39.4 59.0#

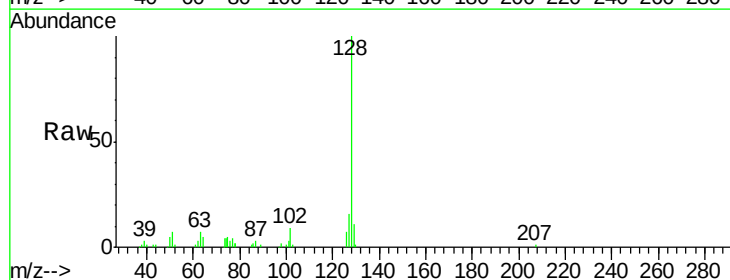


Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 88.90 (88.60 to 89.60): VX0



#95
Naphthalene
Concen: 2.248 ug/l
RT: 13.84 min Scan# 2174
Delta R.T. -0.00 min
Lab File: VX000445.D
Acq: 26 Mar 2018 17:04

Tgt Ion:128 Resp: 16630
Ion Ratio Lower Upper
128 100
127 15.2 10.6 15.8
129 11.8 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

