

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN091515\
 Data File : VN027186.D
 Acq On : 16 Sep 2015 2:34
 Operator : MD\FY
 Sample : G3629-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 S39-0100

Quant Time: Sep 16 03:49:10 2015
 Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N091515W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 15 21:12:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.75	168	790266	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	8.68	114	1417028	50.00	ug/l	0.00
64) Chlorobenzene-d5	11.52	117	1173981	50.00	ug/l	0.00
73) 1,4-Dichlorobenzene-d4	13.47	152	406493	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
34) 1,2-Dichloroethane-d4	8.12	65	778615	48.09	ug/l	0.00
Spiked Amount			Recovery	=	96.18%	
36) Dibromofluoromethane	7.68	113	509365	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
51) Toluene-d8	10.19	98	2053188	53.39	ug/l	0.00
Spiked Amount			Recovery	=	106.78%	
63) 4-Bromofluorobenzene	12.52	95	683564	50.08	ug/l	0.00
Spiked Amount			Recovery	=	100.16%	

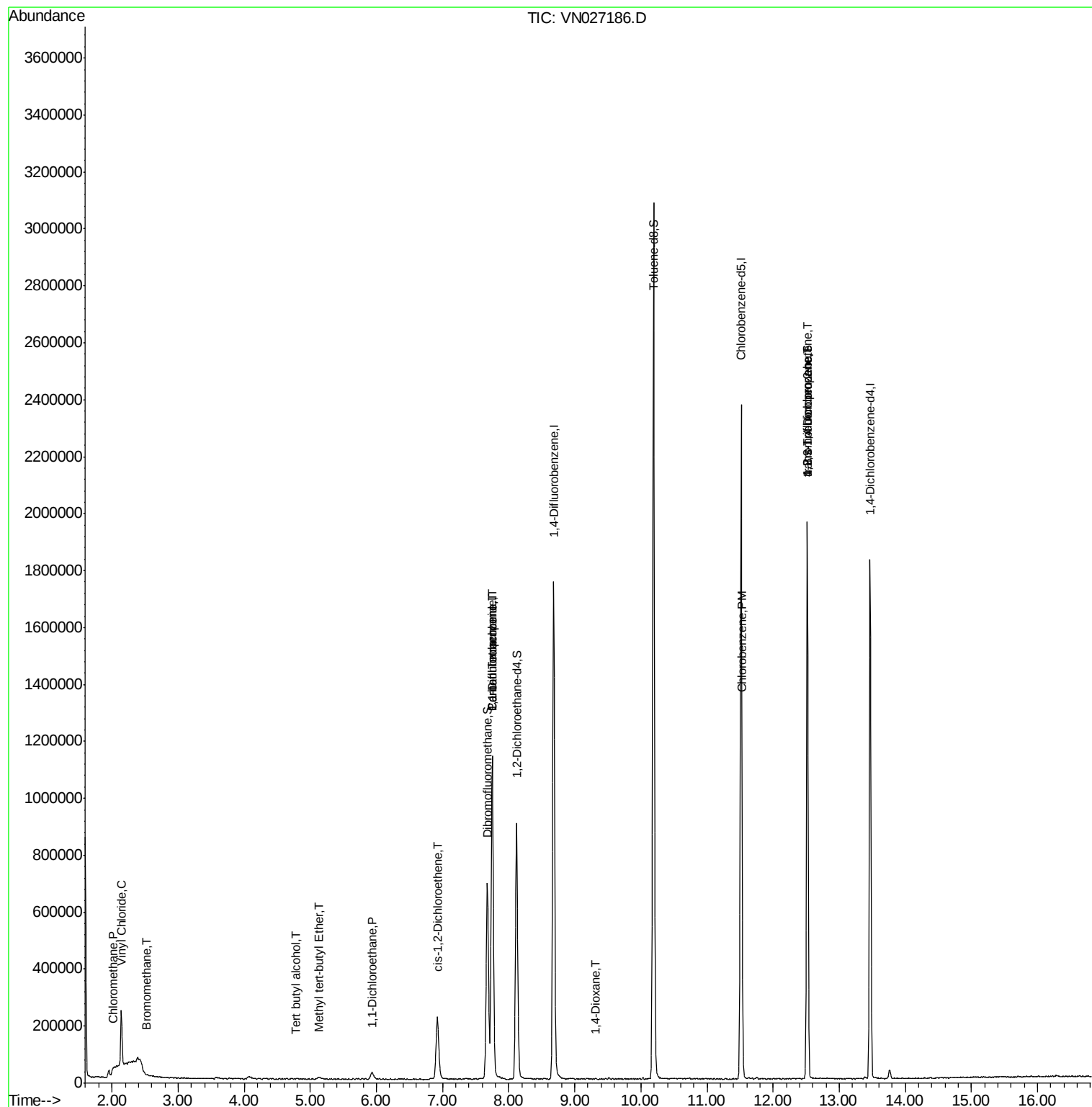
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Chloromethane	2.01	50	3966	1.48	ug/l #	79
5) Vinyl Chloride	2.14	62	164502	14.73	ug/l	100
6) Bromomethane	2.52	94	575	1.70	ug/l #	16
12) Tert butyl alcohol	4.79	59	359	0.23	ug/l #	1
20) Methyl tert-butyl Ether	5.13	73	8275	0.20	ug/l #	87
25) 1,1-Dichloroethane	5.94	63	33951	1.36	ug/l #	93
28) cis-1,2-Dichloroethene	6.92	96	132972	10.56	ug/l	91
37) 1,1-Dichloropropene	7.75	75	85514	5.16	ug/l #	52
38) Ethyl Acetate	7.01	43	49	Below Cal	#	1
39) Carbon Tetrachloride	7.75	117	90153	5.78	ug/l #	17
50) 1,4-Dioxane	9.31	88	187	1.21	ug/l #	1
66) Chlorobenzene	11.54	112	9742	0.35	ug/l	93
76) 1,1,2,2-Tetrachloroethane	12.60	83	287	Below Cal	#	25
77) 1,2,3-Trichloropropane	12.52	75	384760	31.32	ug/l #	1
82) trans-1,4-Dichloro-2-buten	12.52	75	384760	76.93	ug/l #	4
93) 1,2-Dibromo-3-Chloropropan	14.42	75	30	Below Cal	#	9

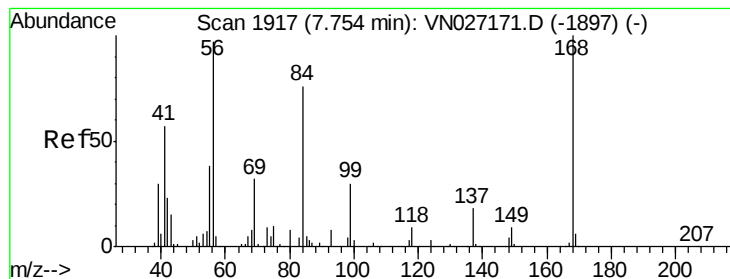
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 15 21:12:09 2015
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

Instrument :

MSVOA_N

ClientSampleId :

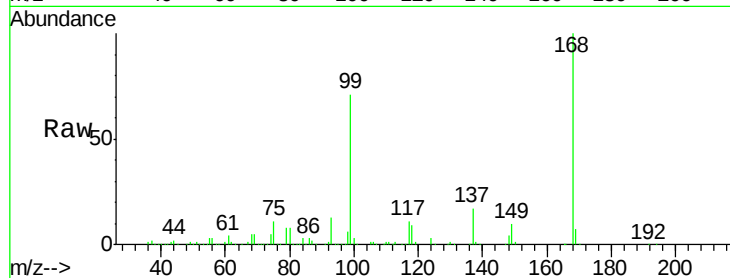
S39-0100

Tot Ion:168 Resp: 790266

Ion Ratio Lower Upper

168 100

99 71.2 50.4 75.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.75

300000

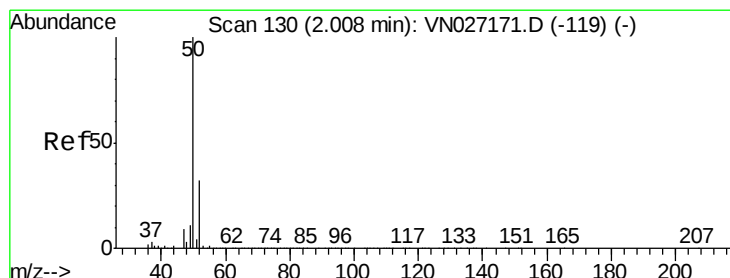
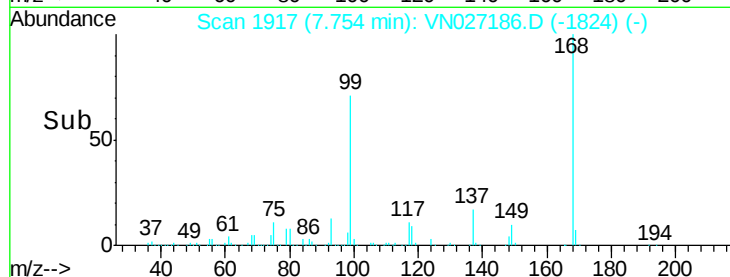
200000

100000

0

Time-->

7.70 7.80 7.90



#4

Chloromethane

Concen: 1.48 ug/l

RT: 2.01 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN027186.D

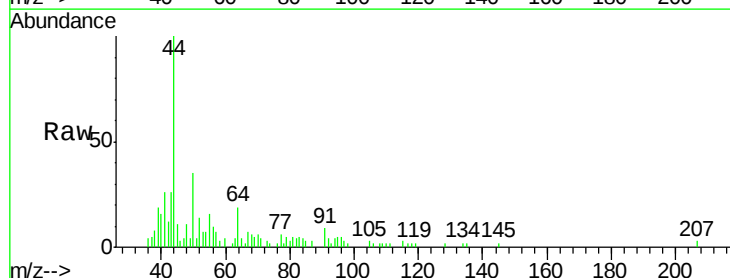
Acq: 16 Sep 2015 2:34

Tgt Ion: 50 Resp: 3966

Ion Ratio Lower Upper

50 100

52 44.4 25.9 38.9#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.01

3000

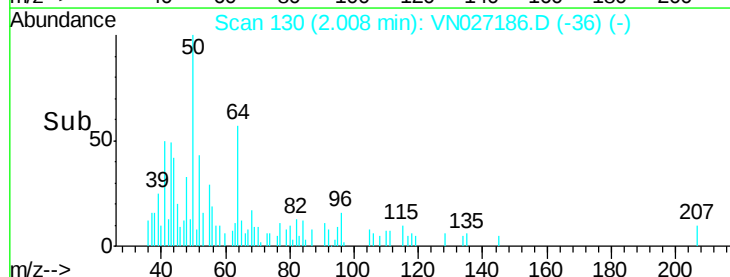
2000

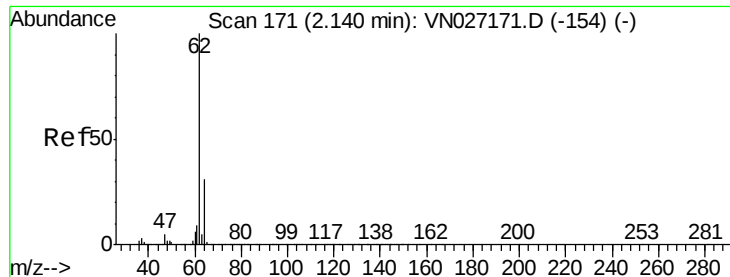
1000

0

Time-->

1.96 1.98 2.00 2.02 2.04





#5

Vinyl Chloride

Concen: 14.73 ug/l

RT: 2.14 min Scan# 171

Delta R.T. 0.00 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

Instrument :

MSVOA_N

ClientSampleId :

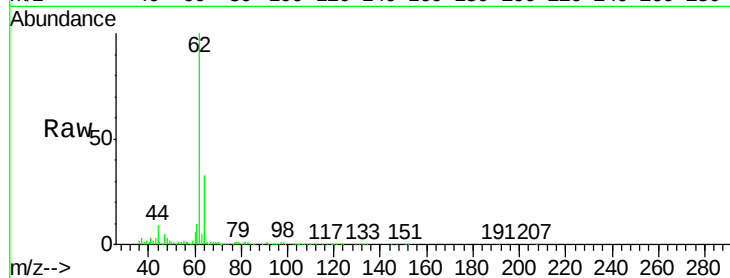
S39-0100

Tot Ion: 62 Resp: 164502

Ion Ratio Lower Upper

62 100

64 32.1 25.9 38.9



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC

2.14

120000

100000

80000

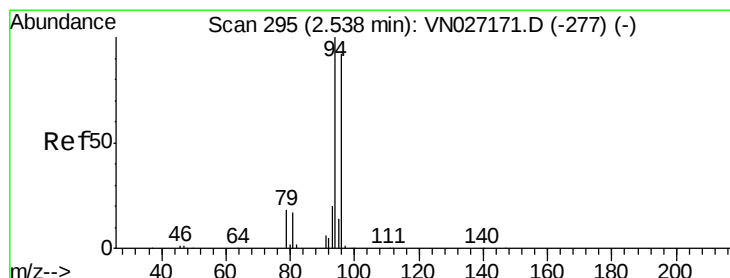
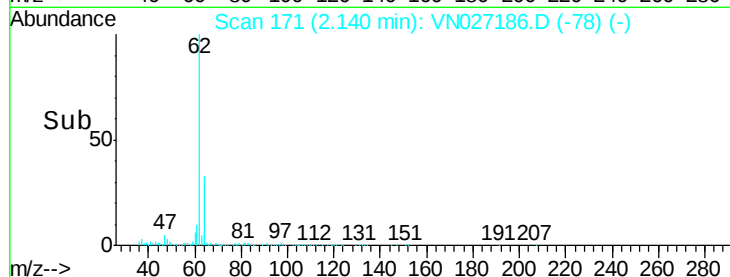
60000

40000

20000

0

Time--> 2.05 2.10 2.15 2.20 2.25



#6

Bromomethane

Concen: 1.70 ug/l

RT: 2.52 min Scan# 290

Delta R.T. -0.02 min

Lab File: VN027186.D

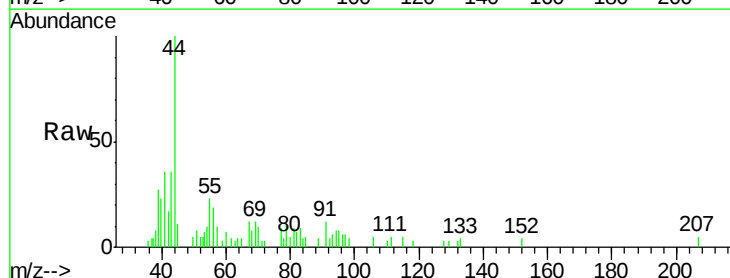
Acq: 16 Sep 2015 2:34

Tgt Ion: 94 Resp: 575

Ion Ratio Lower Upper

94 100

96 11.4 73.4 110.2#



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC

600

500

400

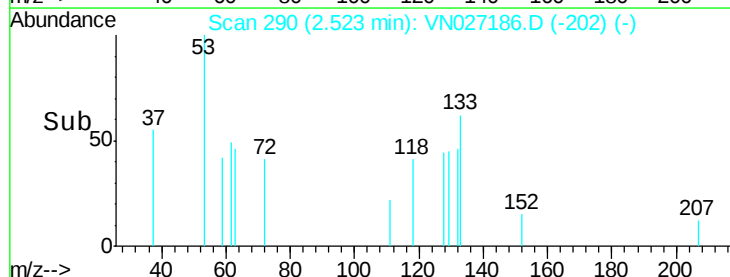
300

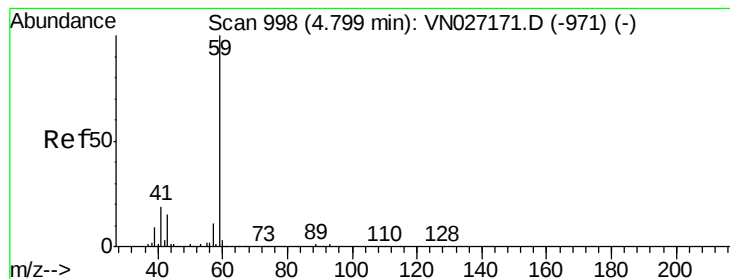
200

100

0

Time--> 2.50 2.52 2.54





#12

Tert butyl alcohol

Concen: 0.23 ug/l

RT: 4.79 min Scan# 996

Delta R.T. -0.01 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

Instrument :

MSVOA_N

ClientSampleId :

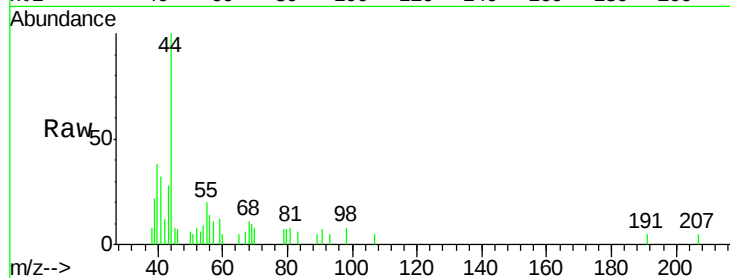
S39-0100

Tot Ion: 59 Resp: 359

Ion Ratio Lower Upper

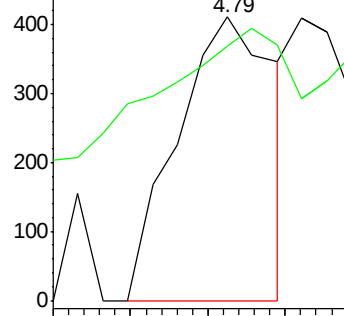
59 100

57 56.0 7.6 11.4#

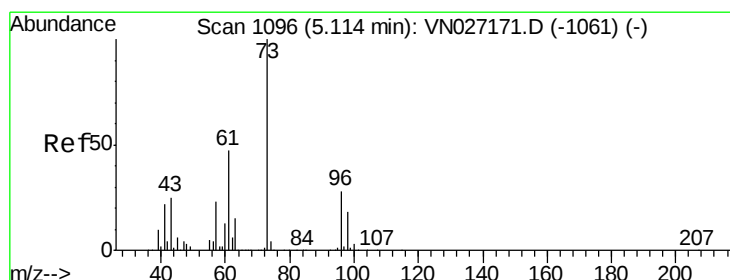
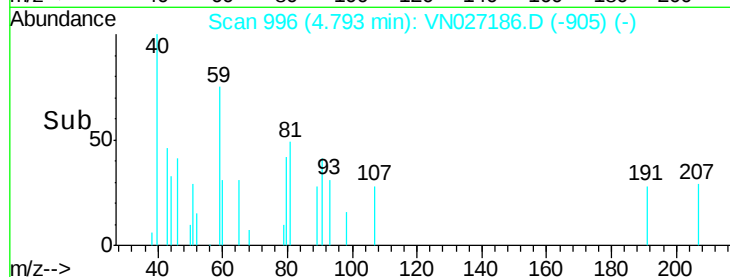


Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



Time--> 4.77 4.78 4.79 4.80



#20

Methyl tert-butyl Ether

Concen: 0.20 ug/l

RT: 5.13 min Scan# 1100

Delta R.T. 0.01 min

Lab File: VN027186.D

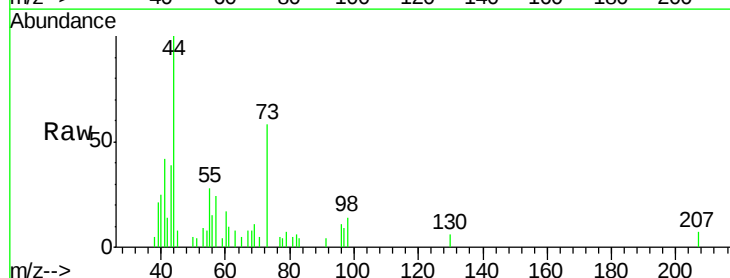
Acq: 16 Sep 2015 2:34

Tgt Ion: 73 Resp: 8275

Ion Ratio Lower Upper

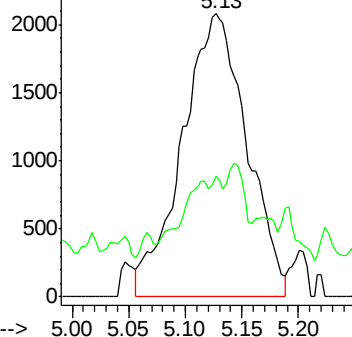
73 100

57 31.3 19.8 29.6#

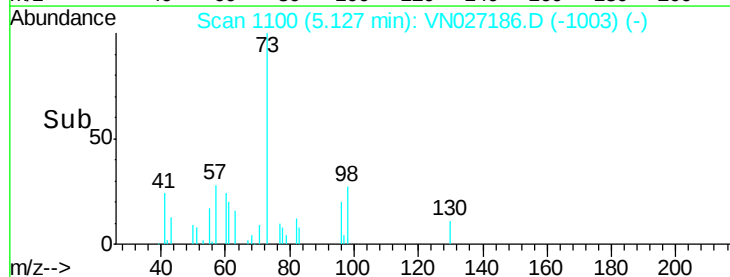


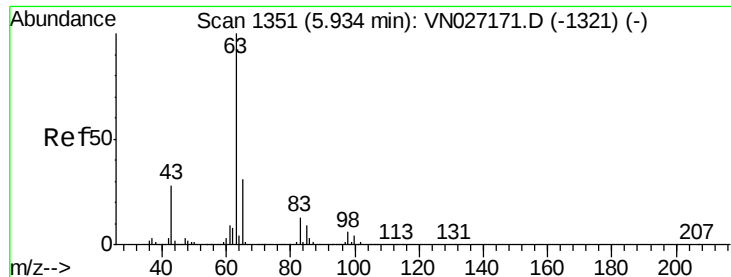
Abundance Ion 73.00 (72.70 to 73.70): VN0

Ion 57.00 (56.70 to 57.70): VN0



Time--> 5.00 5.05 5.10 5.15 5.20





#25

1,1-Dichloroethane

Concen: 1.36 ug/l

RT: 5.94 min Scan# 1352

Delta R.T. 0.00 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

Instrument :

MSVOA_N

ClientSampled :

S39-0100

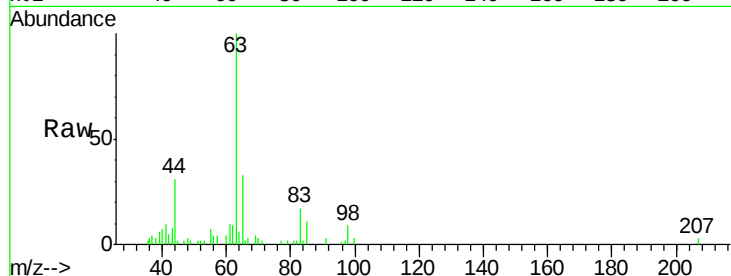
Tot Ion: 63 Resp: 33951

Ion Ratio Lower Upper

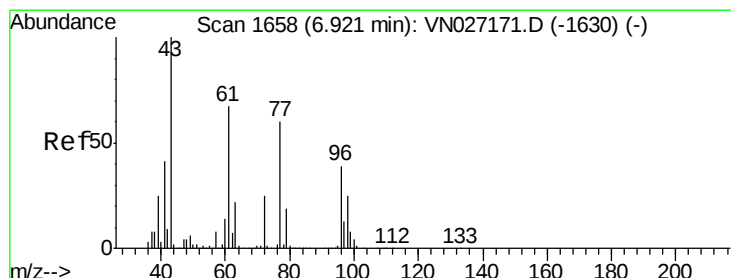
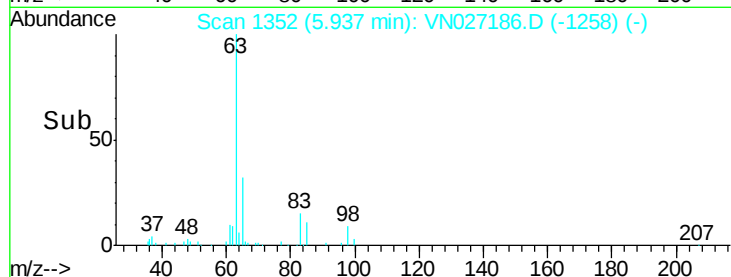
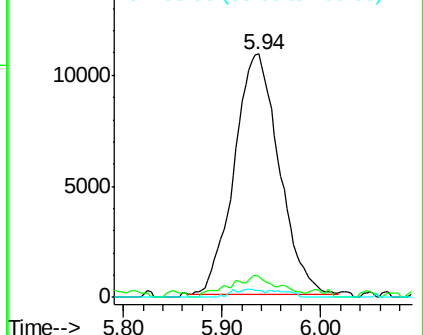
63 100

98 8.9 2.8 8.3#

100 3.0 1.7 5.0



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0



#28

cis-1,2-Dichloroethene

Concen: 10.56 ug/l

RT: 6.92 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

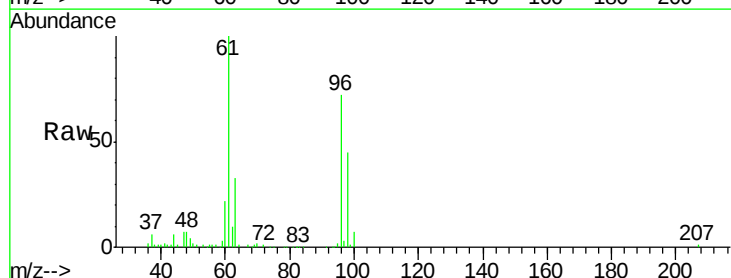
Tgt Ion: 96 Resp: 132972

Ion Ratio Lower Upper

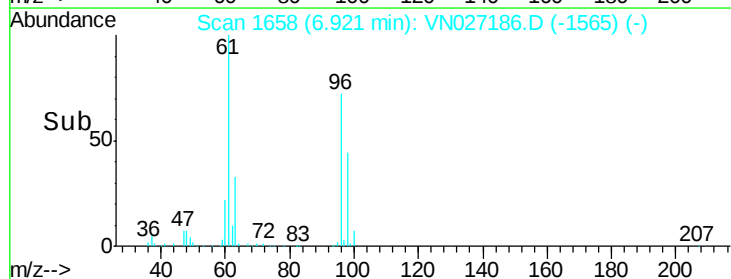
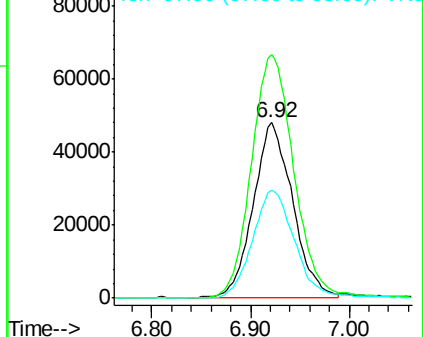
96 100

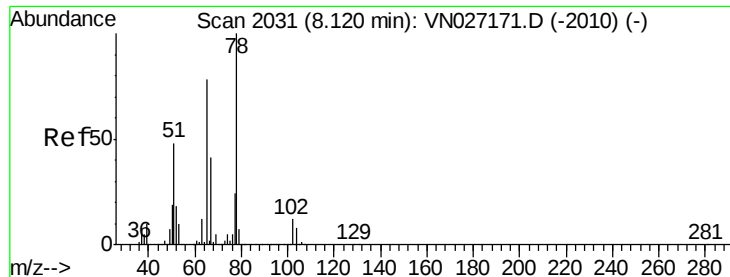
61 149.0 0.0 329.2

98 65.2 0.0 126.0



Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0





#34

1,2-Dichloroethane-d4

Concen: 48.09 ug/l

RT: 8.12 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

Instrument :

MSVOA_N

ClientSampleId :

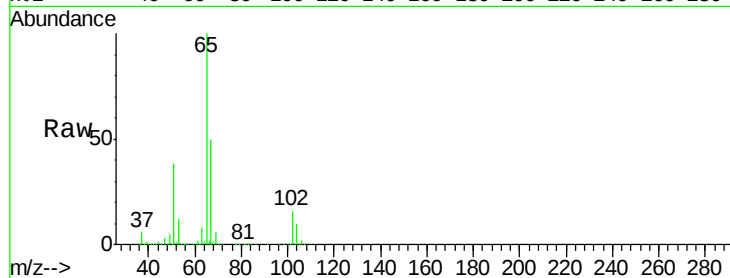
S39-0100

Tot Ion: 65 Resp: 778615

Ion Ratio Lower Upper

65 100

67 50.4 0.0 110.6



Abundance Ion 64.90 (64.60 to 65.60): VN027171.D (-2010) (-)

Ion 66.90 (66.60 to 67.60): VN027171.D (-2010) (-)

8.12

300000

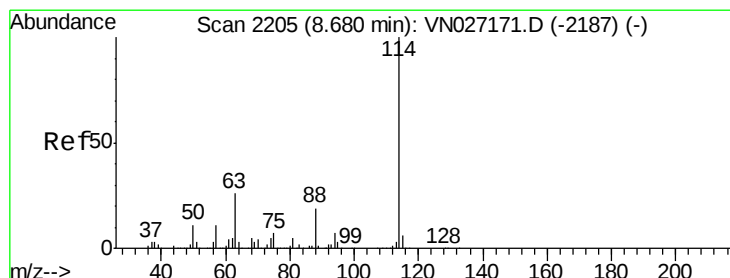
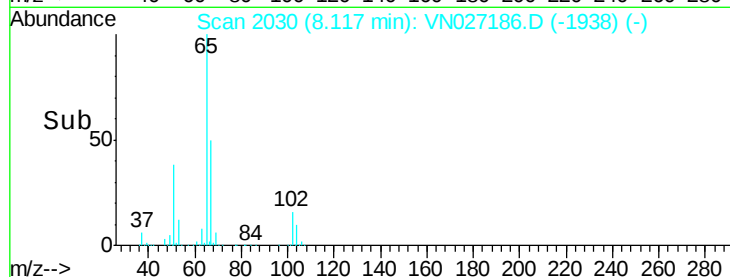
200000

100000

0

Time-->

8.00 8.10 8.20



#35

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.68 min Scan# 2205

Delta R.T. 0.00 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

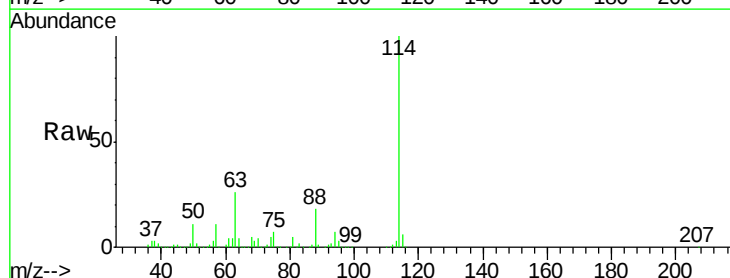
Tgt Ion: 114 Resp: 1417028

Ion Ratio Lower Upper

114 100

63 26.4 0.0 48.8

88 18.5 0.0 32.2



Abundance Ion 113.90 (113.60 to 114.60): VN027171.D (-2187) (-)

Ion 63.00 (62.70 to 63.70): VN027171.D (-2187) (-)

Ion 87.90 (87.60 to 88.60): VN027171.D (-2187) (-)

8.68

800000

600000

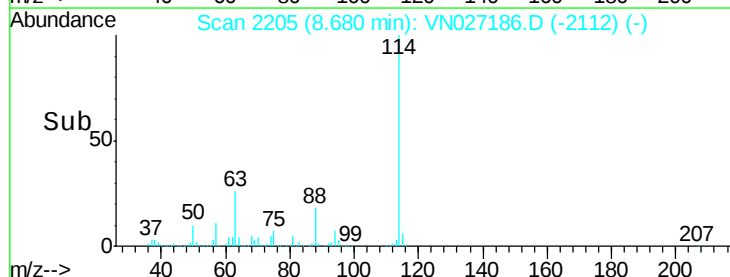
400000

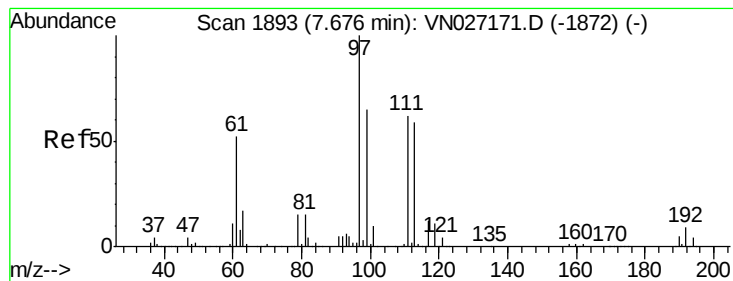
200000

0

Time-->

8.60 8.70 8.80 8.90





#36

Dibromofluoromethane

Concen: 51.86 ug/l

RT: 7.68 min Scan# 1893

Delta R.T. 0.00 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

Instrument :

MSVOA_N

ClientSampled :

S39-0100

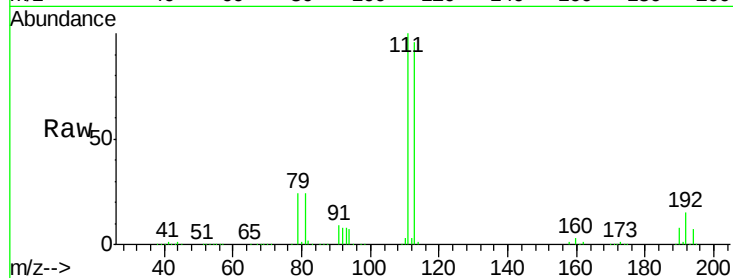
Tot Ion:113 Resp: 509365

Ion Ratio Lower Upper

113 100

111 105.6 83.0 124.4

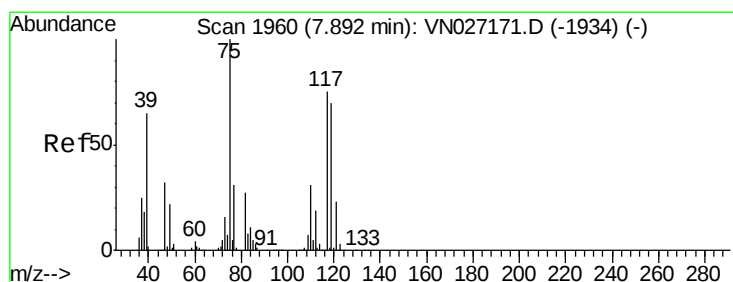
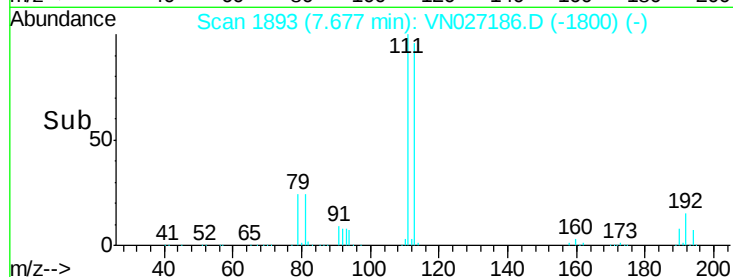
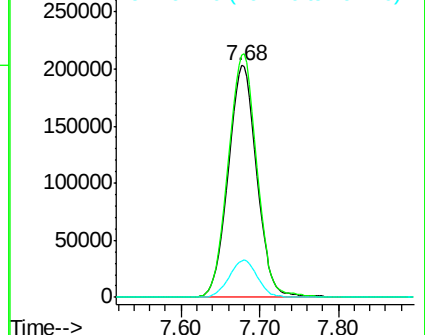
192 15.9 14.1 21.1



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



#37

1,1-Dichloropropene

Concen: 5.16 ug/l

RT: 7.75 min Scan# 1916

Delta R.T. -0.14 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

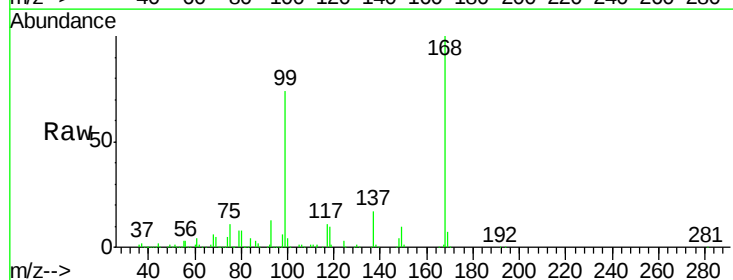
Tgt Ion: 75 Resp: 85514

Ion Ratio Lower Upper

75 100

110 9.3 15.9 47.7#

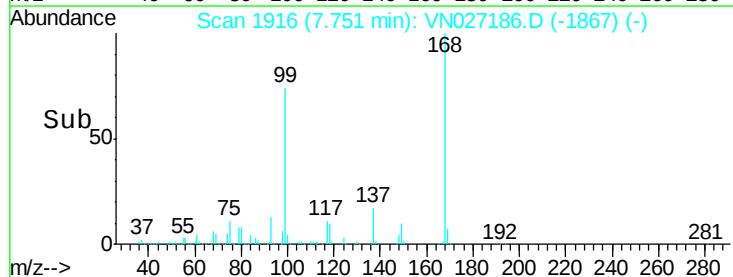
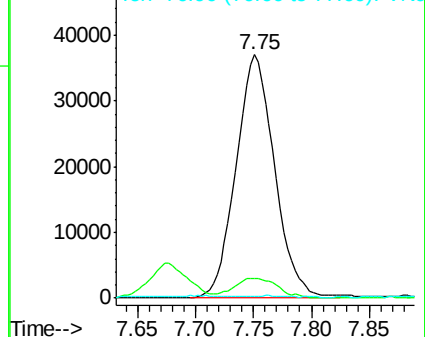
77 0.1 24.9 37.3#

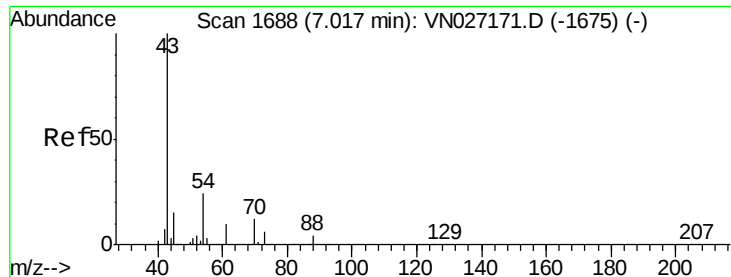


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

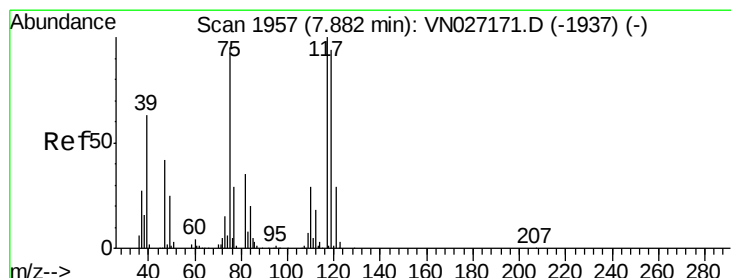
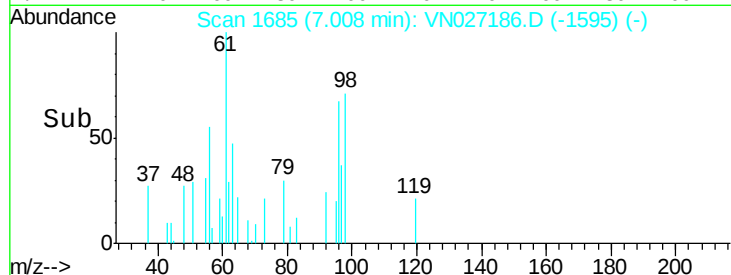
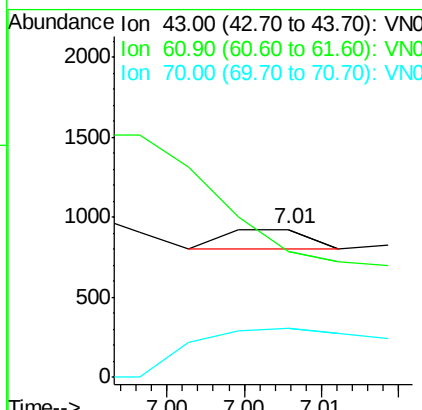
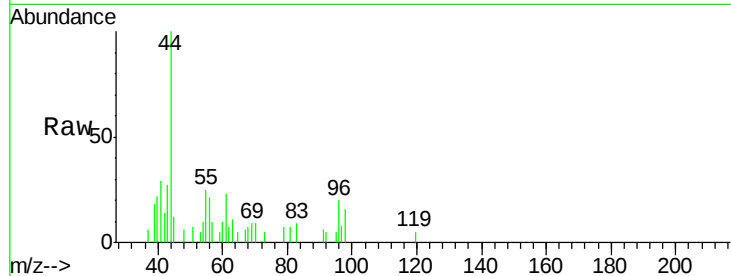




#38
Ethyl Acetate
Concen: Below Cal
RT: 7.01 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VN027186.D
Acq: 16 Sep 2015 2:34

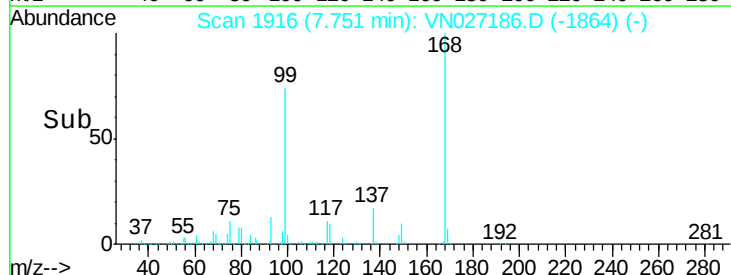
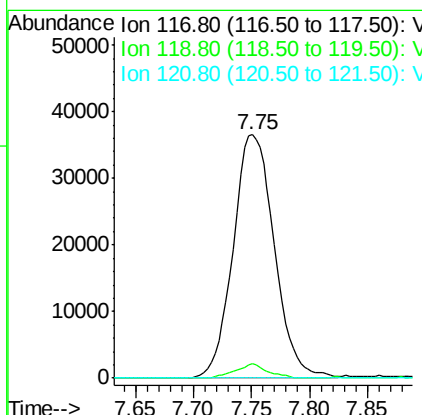
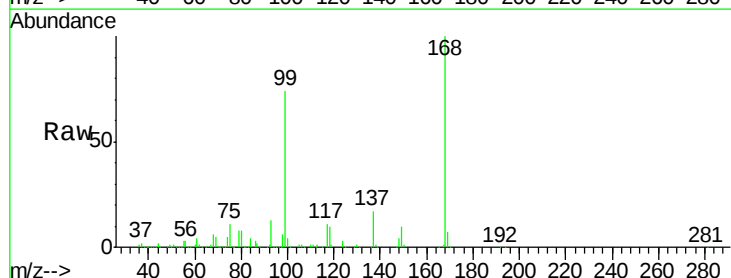
Instrument :
MSVOA_N
ClientSampleId :
S39-0100

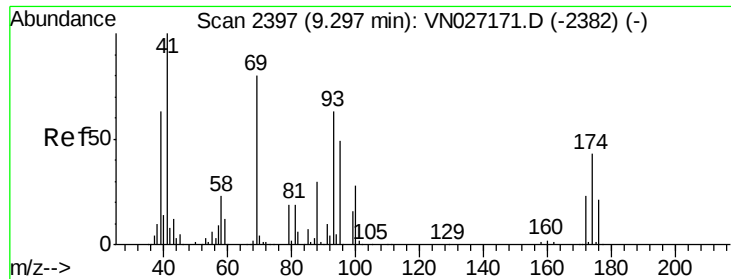
Tot Ion: 43 Resp: 49
Ion Ratio Lower Upper
43 100
61 0.0 10.2 15.4#
70 757.1 7.4 11.0#



#39
Carbon Tetrachloride
Concen: 5.78 ug/l
RT: 7.75 min Scan# 1916
Delta R.T. -0.13 min
Lab File: VN027186.D
Acq: 16 Sep 2015 2:34

Tgt Ion: 117 Resp: 90153
Ion Ratio Lower Upper
117 100
119 5.9 75.3 112.9#
121 0.0 23.8 35.8#

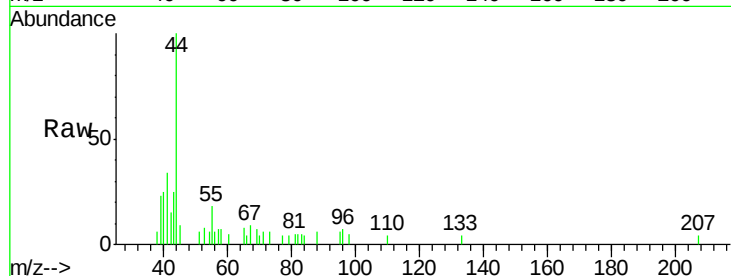




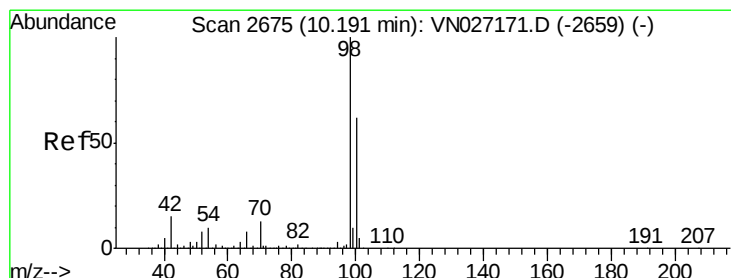
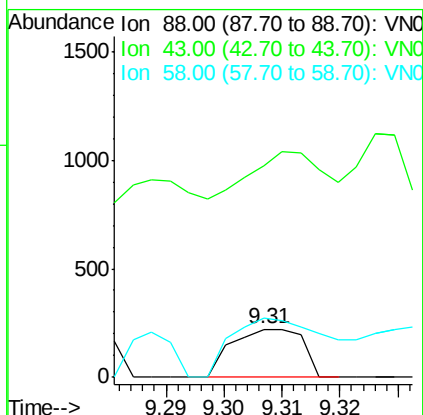
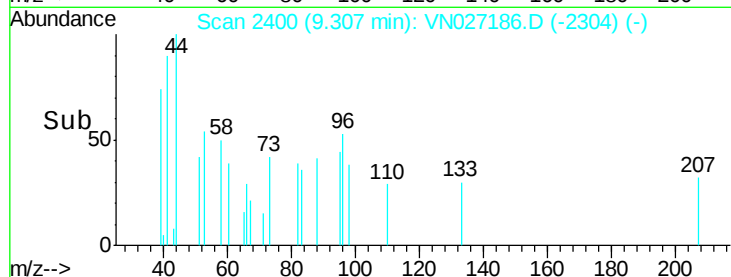
#50
1,4-Dioxane
Concen: 1.21 ug/l
RT: 9.31 min Scan# 2400
Delta R.T. 0.01 min
Lab File: VN027186.D
Acq: 16 Sep 2015 2:34

Instrument :
MSVOA_N
ClientSampled :
S39-0100

Tot Ion: 88 Resp: 187
Ion Ratio Lower Upper
88 100
43 154.5 27.6 41.4#
58 160.4 63.1 94.7#

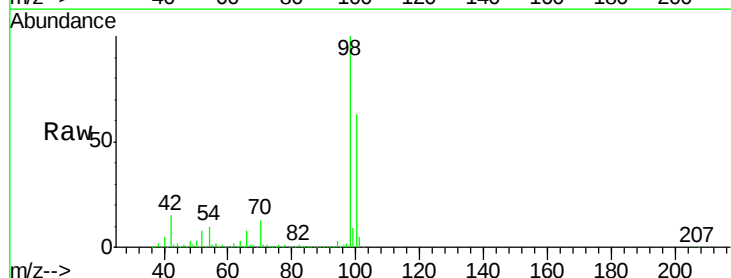


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

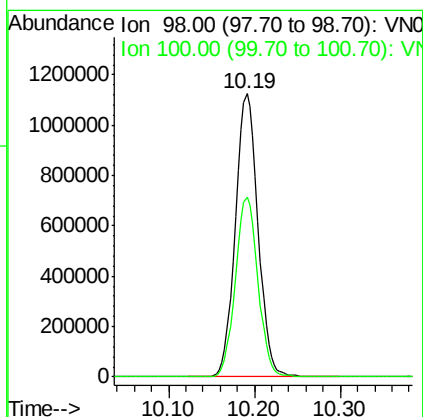
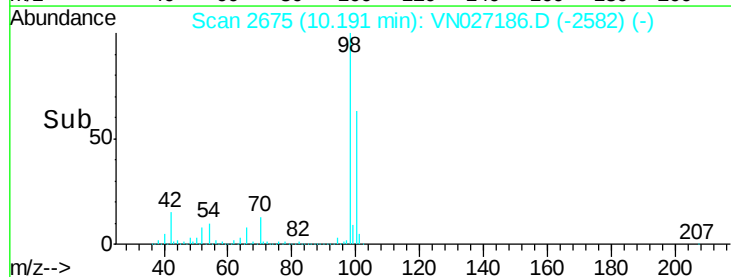


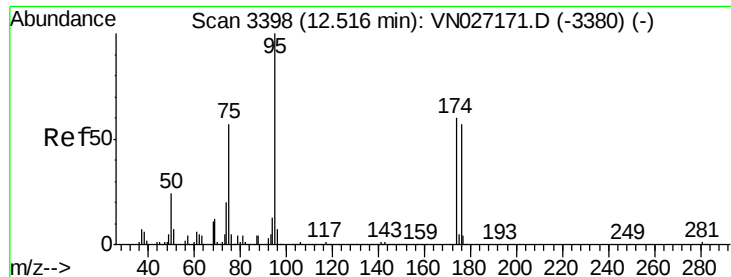
#51
Toluene-d8
Concen: 53.39 ug/l
RT: 10.19 min Scan# 2675
Delta R.T. 0.00 min
Lab File: VN027186.D
Acq: 16 Sep 2015 2:34

Tgt Ion: 98 Resp: 2053188
Ion Ratio Lower Upper
98 100
100 63.3 50.5 75.7



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

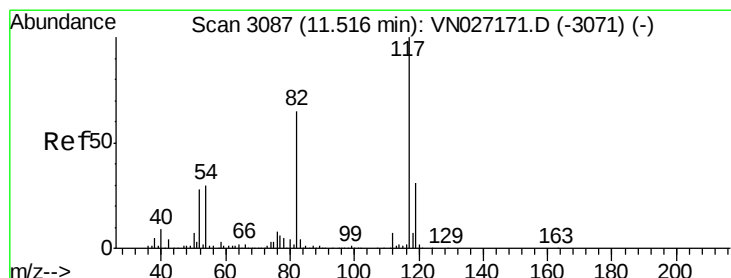
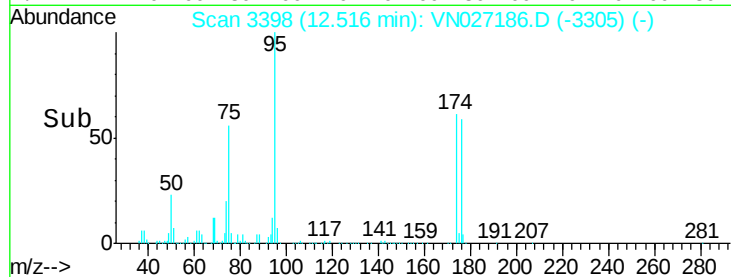
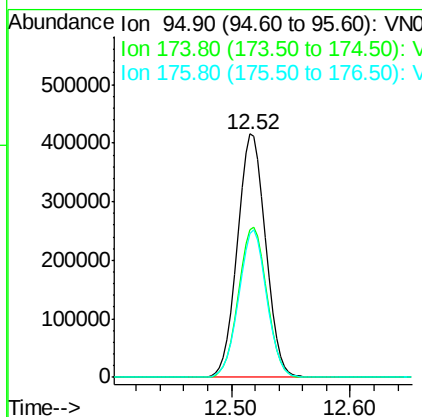
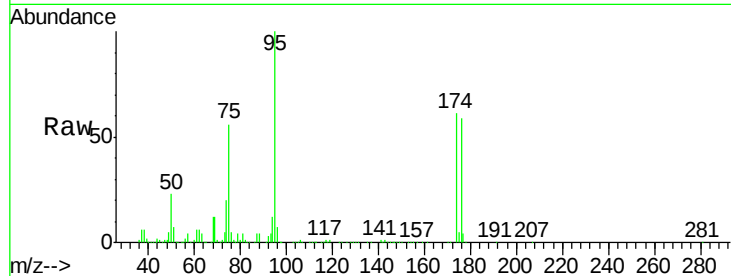




#63
4-Bromofluorobenzene
Concen: 50.08 ug/l
RT: 12.52 min Scan# 3398
Delta R.T. 0.00 min
Lab File: VN027186.D
Acq: 16 Sep 2015 2:34

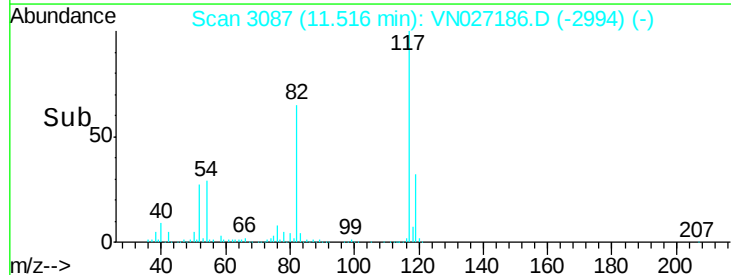
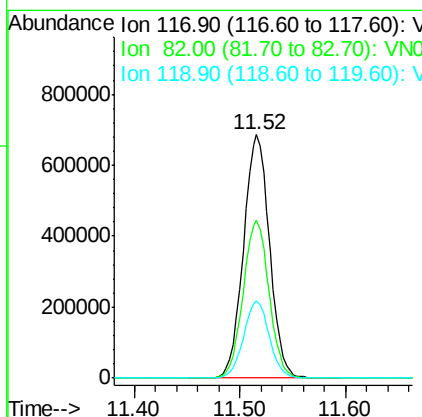
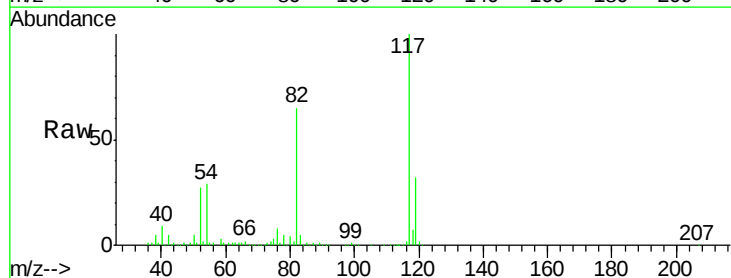
Instrument :
MSVOA_N
Client Sampled :
S39-0100

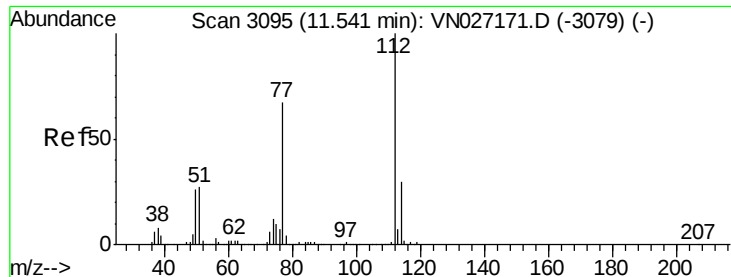
Tot Ion: 95 Resp: 683564
Ion Ratio Lower Upper
95 100
174 62.1 0.0 137.0
176 60.0 0.0 130.8



#64
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.52 min Scan# 3087
Delta R.T. 0.00 min
Lab File: VN027186.D
Acq: 16 Sep 2015 2:34

Tgt Ion: 117 Resp: 1173981
Ion Ratio Lower Upper
117 100
82 64.6 49.6 74.4
119 32.0 24.6 36.8





#66

Chlorobenzene

Concen: 0.35 ug/l

RT: 11.54 min Scan# 3094

Delta R.T. -0.00 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

Instrument :

MSVOA_N

ClientSampleId :

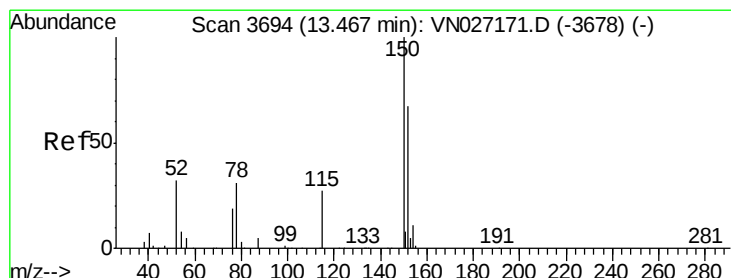
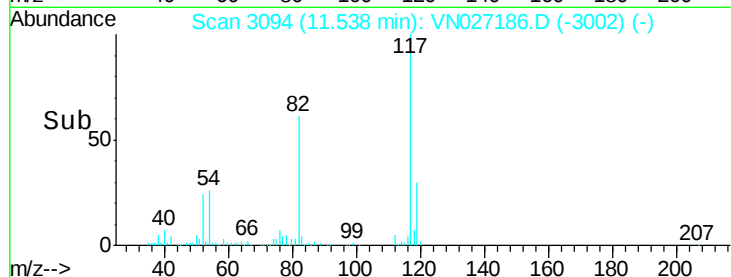
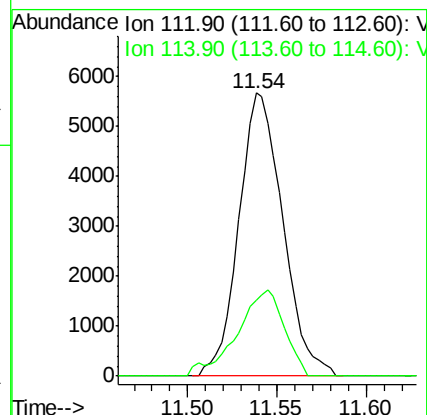
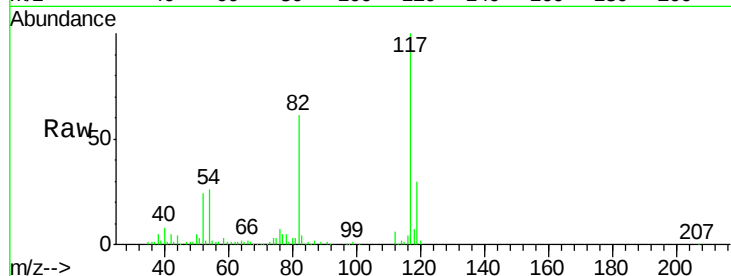
S39-0100

Tot Ion:112 Resp: 9742

Ion Ratio Lower Upper

112 100

114 27.0 24.9 37.3



#73

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.47 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

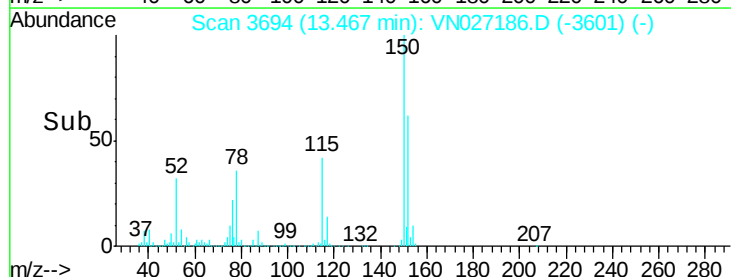
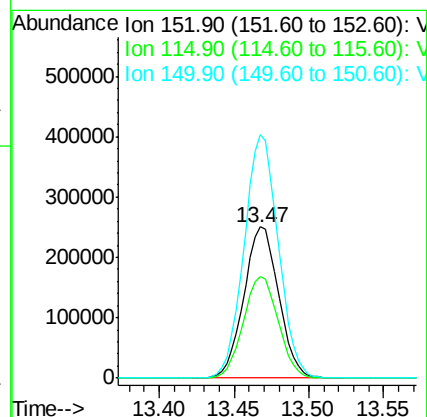
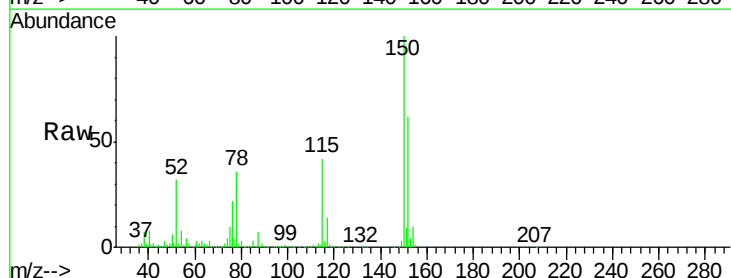
Tgt Ion:152 Resp: 406493

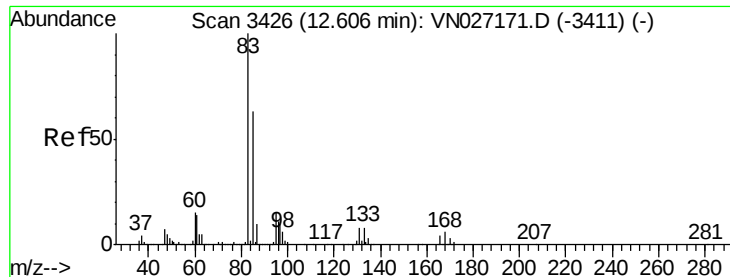
Ion Ratio Lower Upper

152 100

115 67.2 30.8 92.3

150 158.9 0.0 345.0





#76

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.60 min Scan# 3424

Delta R.T. -0.01 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

Instrument :

MSVOA_N

ClientSampled :

S39-0100

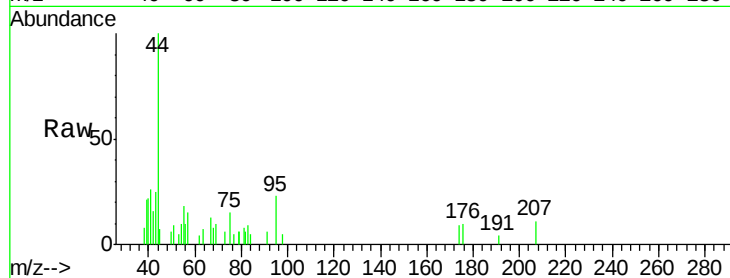
Tot Ion: 83 Resp: 287

Ion Ratio Lower Upper

83 100

131 0.0 4.1 12.3#

85 0.0 31.9 95.7#

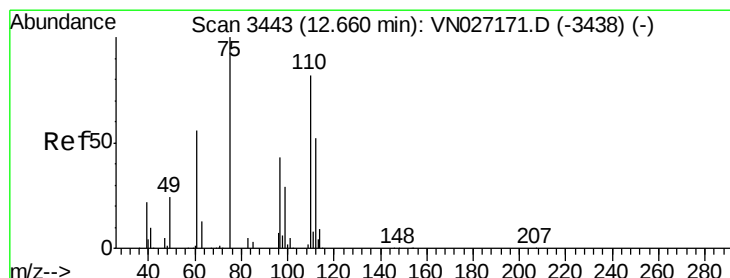
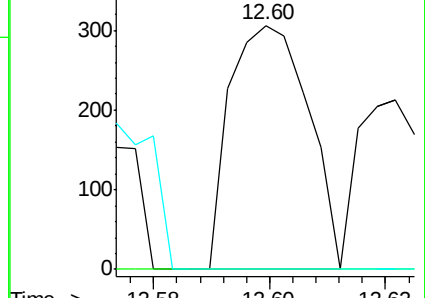
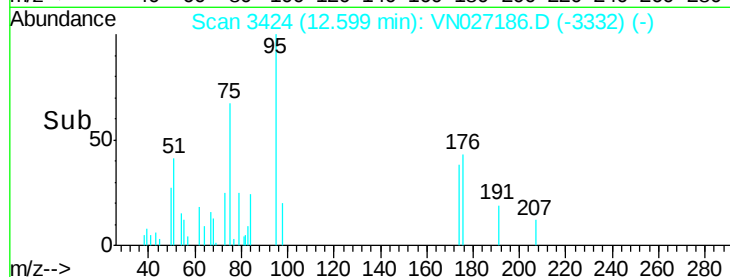


Abundance Ion 82.90 (82.60 to 83.60): VN027186.D (-3332) (-)

Ion 130.80 (130.50 to 131.50): VN027186.D (-3332) (-)

Ion 84.90 (84.60 to 85.60): VN027186.D (-3332) (-)

Time-->



#77

1,2,3-Trichloropropane

Concen: 31.32 ug/l

RT: 12.52 min Scan# 3399

Delta R.T. -0.14 min

Lab File: VN027186.D

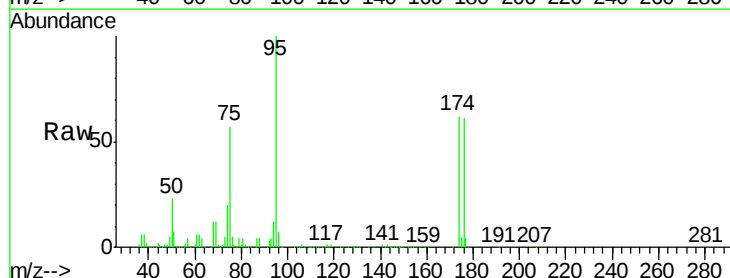
Acq: 16 Sep 2015 2:34

Tgt Ion: 75 Resp: 384760

Ion Ratio Lower Upper

75 100

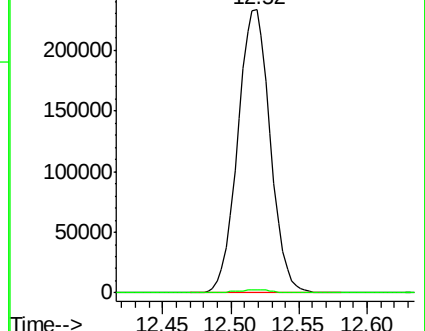
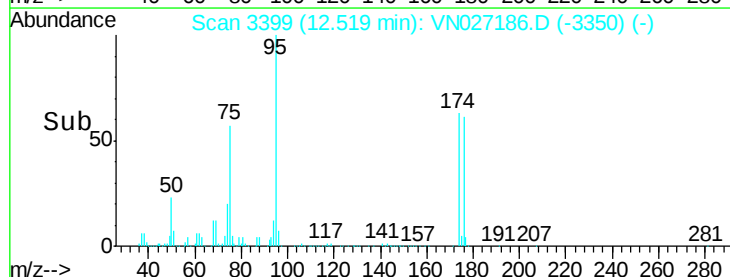
77 1.1 103.1 309.3#

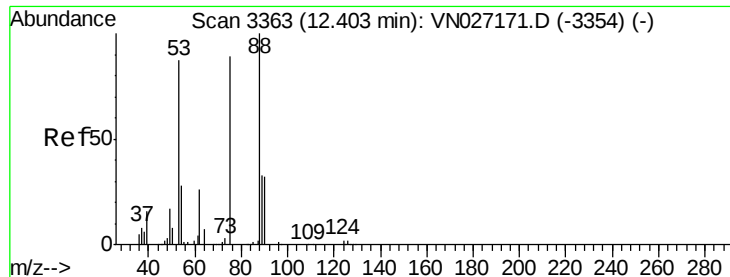


Abundance Ion 74.90 (74.60 to 75.60): VN027186.D (-3350) (-)

Ion 77.00 (76.70 to 77.70): VN027186.D (-3350) (-)

Time-->





#82

trans-1,4-Dichloro-2-butene

Concen: 76.93 ug/l

RT: 12.52 min Scan# 3399

Delta R.T. 0.12 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

Instrument :

MSVOA_N

ClientSampleId :

S39-0100

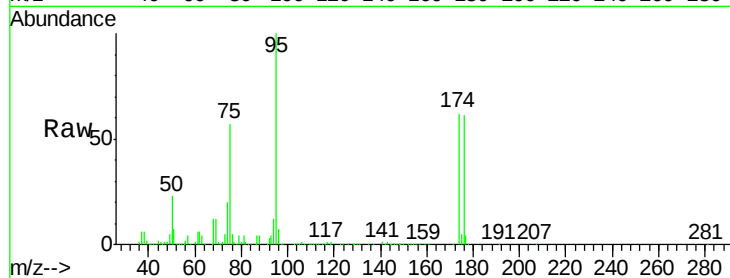
Tot Ion: 75 Resp: 384760

Ion Ratio Lower Upper

75 100

53 0.0 92.9 139.3#

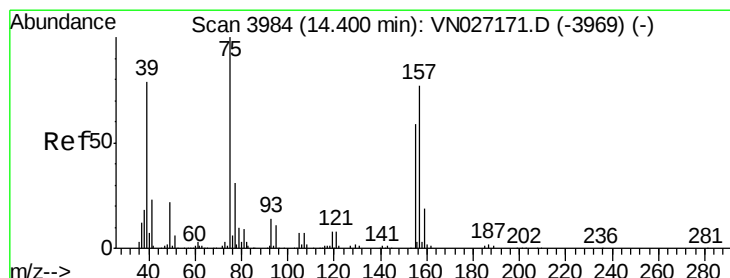
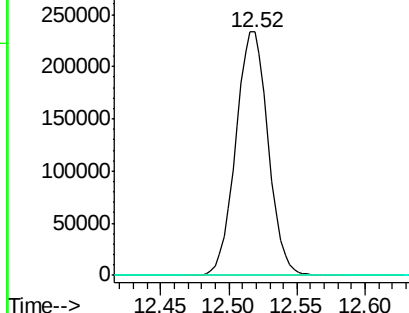
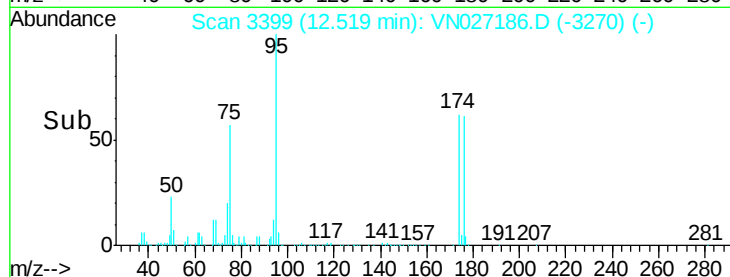
89 0.0 34.2 51.4#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.42 min Scan# 3991

Delta R.T. 0.02 min

Lab File: VN027186.D

Acq: 16 Sep 2015 2:34

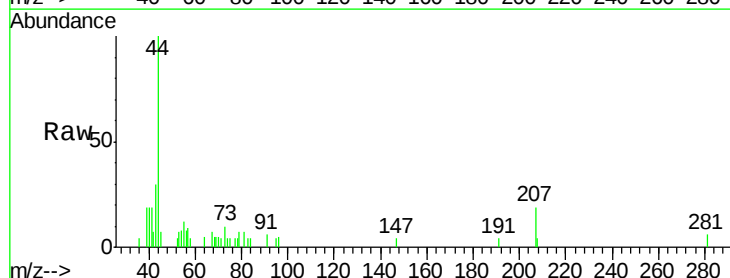
Tgt Ion: 75 Resp: 30

Ion Ratio Lower Upper

75 100

155 0.0 35.6 106.9#

157 0.0 44.6 133.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

