

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111918\
 Data File : VN052388.D
 Acq On : 19 Nov 2018 16:40
 Operator : MD\SY
 Sample : PB114846ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#04

Quant Time: Nov 20 07:12:57 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	298202	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	497978	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	437458	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	149915	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	220104	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	
35) Dibromofluoromethane	7.59	113	165300	51.46	ug/l	0.00
Spiked Amount			Recovery	=	102.92%	
50) Toluene-d8	10.09	98	638046	50.50	ug/l	0.00
Spiked Amount			Recovery	=	101.00%	
62) 4-Bromofluorobenzene	12.40	95	188178	45.27	ug/l	0.00
Spiked Amount			Recovery	=	90.54%	

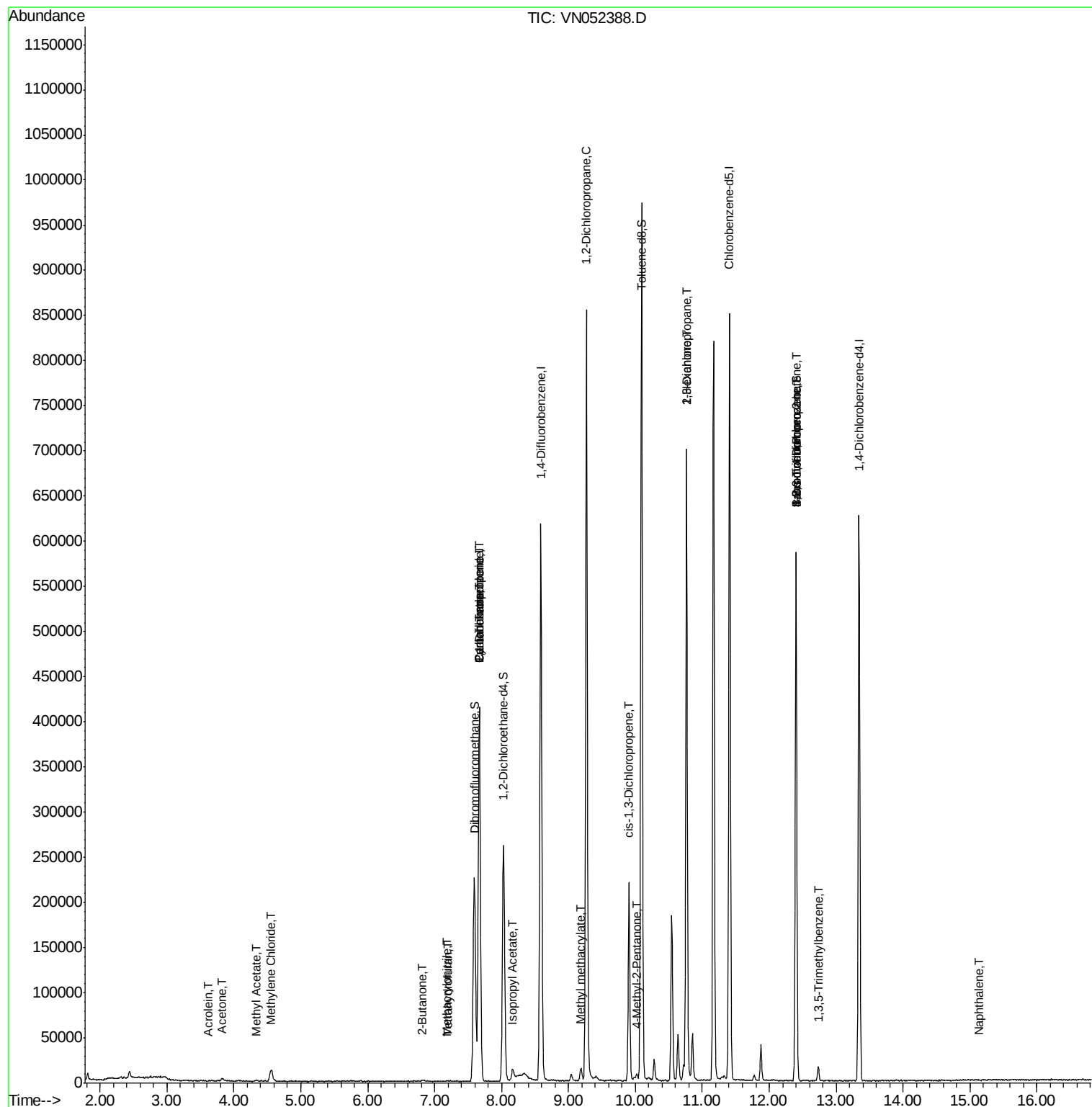
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	30	21.852	ug/l #	58
16) Acetone	3.82	43	4621	3.985	ug/l	98
18) Methyl Acetate	4.34	43	1384	0.854	ug/l #	57
20) Methylene Chloride	4.57	84	7701	1.504	ug/l	86
25) 2-Butanone	6.81	43	501	0.307	ug/l #	52
29) Tetrahydrofuran	7.20	42	450	0.420	ug/l #	53
31) Cyclohexane	7.67	56	8707	0.306	ug/l #	25
36) 1,1-Dichloropropene	7.67	75	28028	5.615	ug/l #	51
38) Carbon Tetrachloride	7.67	117	33024	7.202	ug/l #	15
41) Methacrylonitrile	7.18	41	103	3.743	ug/l #	100
43) Isopropyl Acetate	8.17	43	17469	2.499	ug/l #	94
45) 1,2-Dichloropropane	9.27	63	1090	0.269	ug/l #	44
48) Methyl methacrylate	9.18	41	5453	1.537	ug/l #	36
51) 4-Methyl-2-Pentanone	10.03	43	5933	1.686	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	31954	5.782	ug/l #	78
57) 1,3-Dichloropropane	10.76	76	6119	1.117	ug/l #	43
59) 2-Hexanone	10.76	43	115770	47.836	ug/l #	55
71) Bromoform	12.40	173	1078	0.579	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	107841	42.394	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7394	0.771	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	107841	137.500	ug/l #	5
95) Naphthalene	15.14	128	73	2.618	ug/l #	69

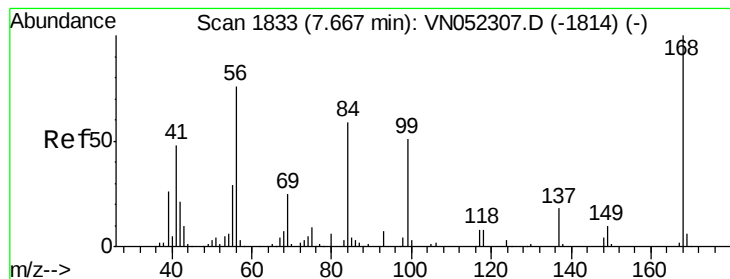
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
Quant Title : SW846 8260
QLast Update : Thu Nov 15 03:02:37 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA_N

ClientSampleId :

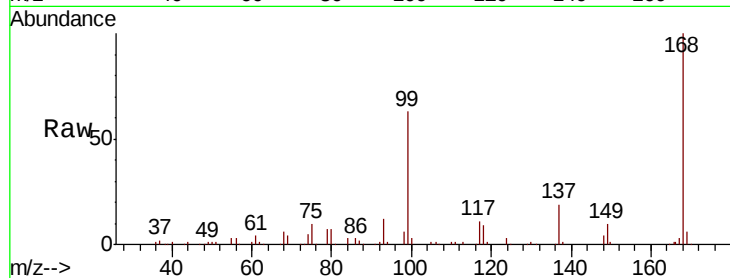
PB114846ZHE#04

Tot Ion:168 Resp: 298202

Ion Ratio Lower Upper

168 100

99 62.6 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

150000

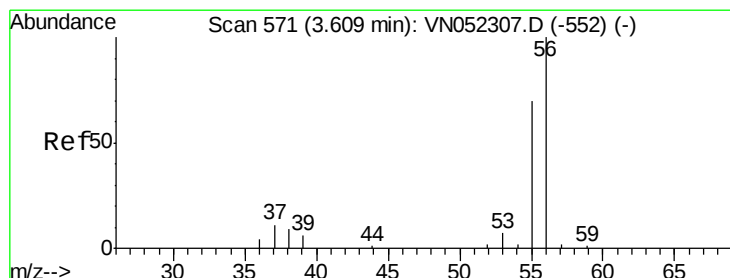
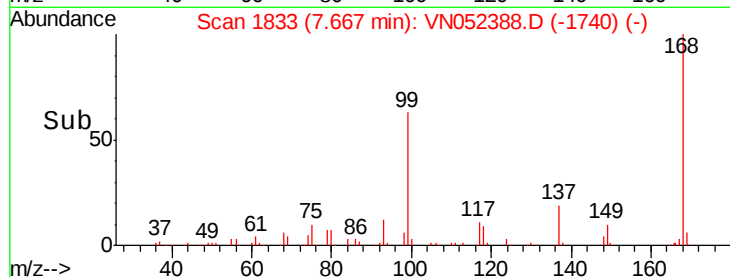
100000

50000

0

Time-->

7.60 7.70 7.80



#13

Acrolein

Concen: 21.852 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.00 min

Lab File: VN052388.D

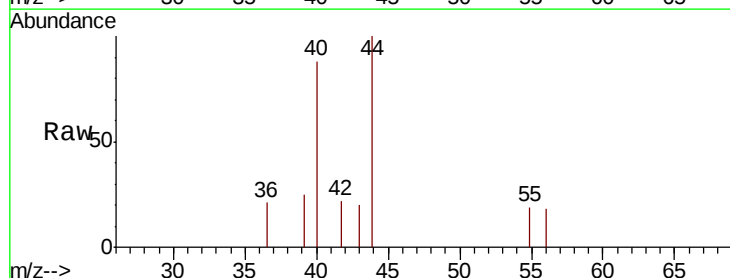
Acq: 19 Nov 2018 16:40

Tgt Ion: 56 Resp: 30

Ion Ratio Lower Upper

56 100

55 106.7 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3/61

150

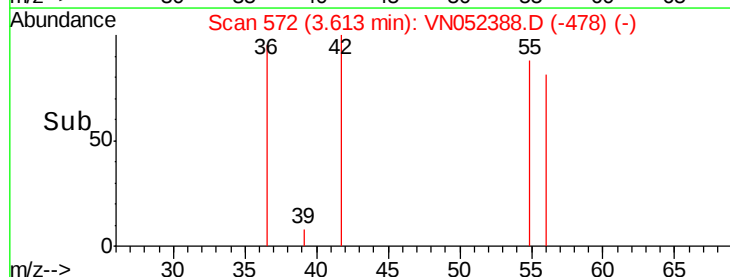
100

50

0

Time-->

3.60 3.61 3.62 3.63





#16

Acetone

Concen: 3.985 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA_N

ClientSampleId :

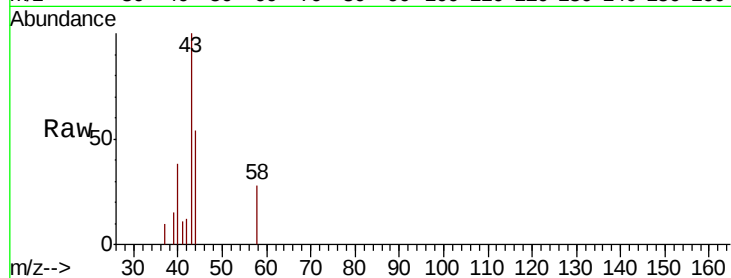
PB114846ZHE#04

Tot Ion: 43 Resp: 4621

Ion Ratio Lower Upper

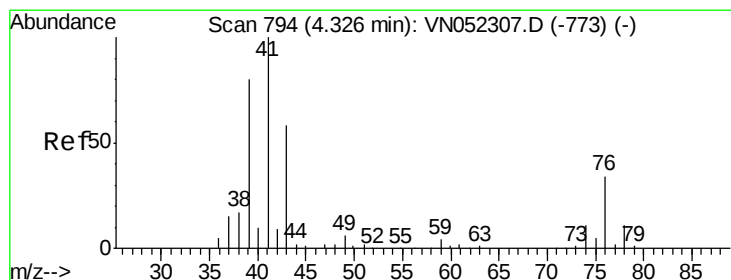
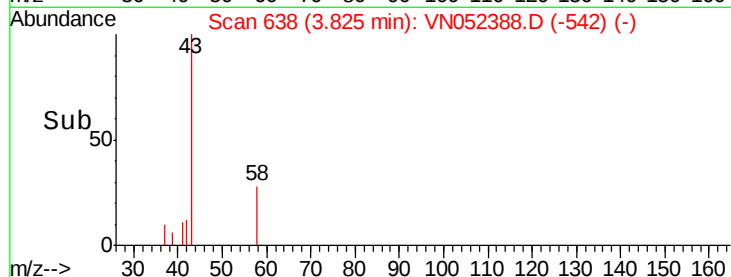
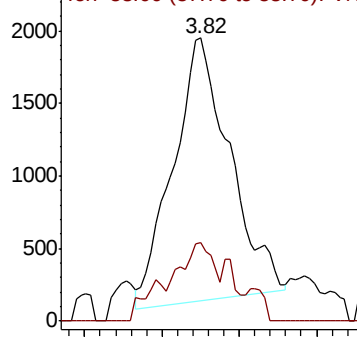
43 100

58 31.1 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.854 ug/l

RT: 4.34 min Scan# 797

Delta R.T. 0.01 min

Lab File: VN052388.D

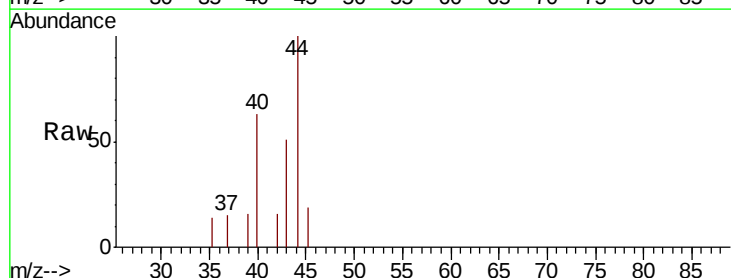
Acq: 19 Nov 2018 16:40

Tgt Ion: 43 Resp: 1384

Ion Ratio Lower Upper

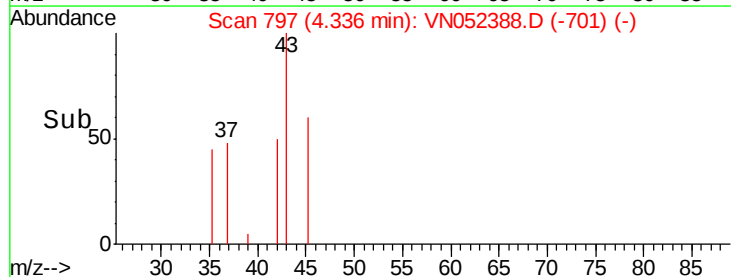
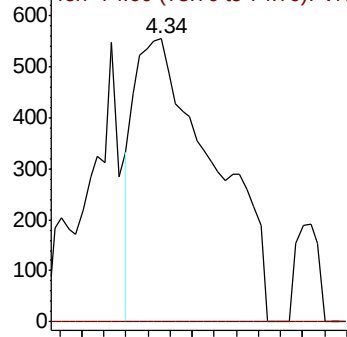
43 100

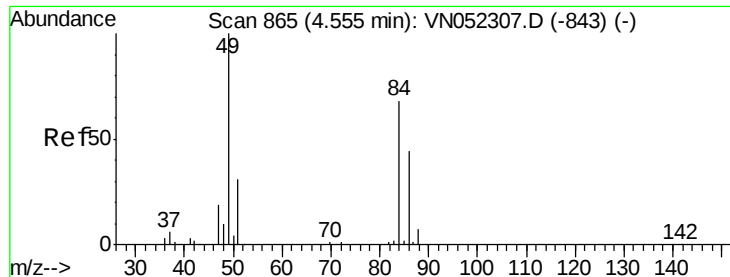
74 0.0 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

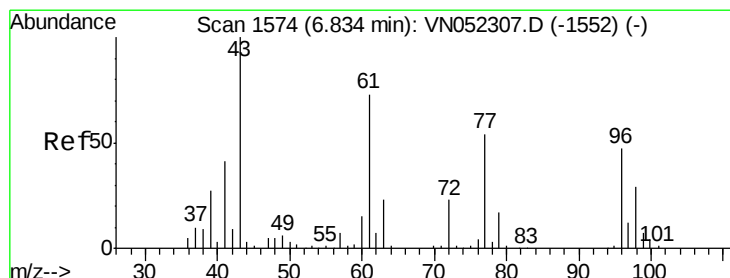
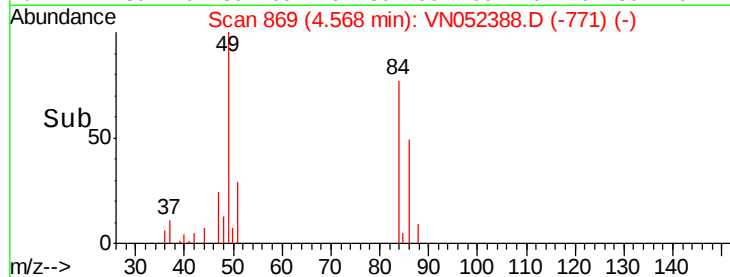
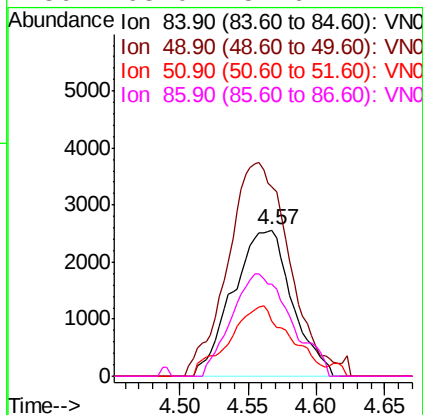
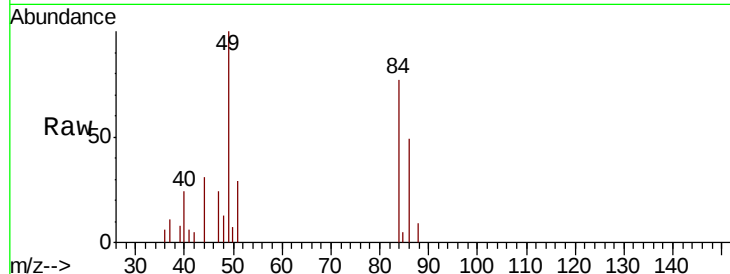




#20
Methvlene Chloride
Concen: 1.504 ug/l
RT: 4.57 min Scan# 869
Delta R.T. 0.01 min
Lab File: VN052388.D
Acq: 19 Nov 2018 16:40

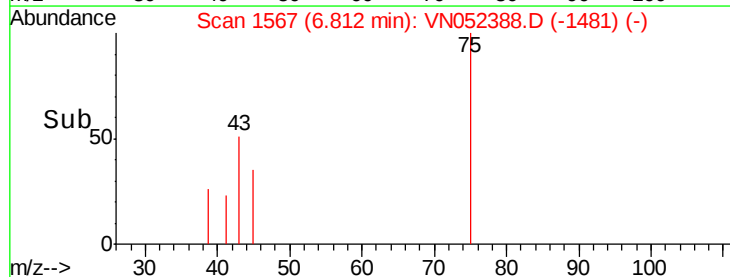
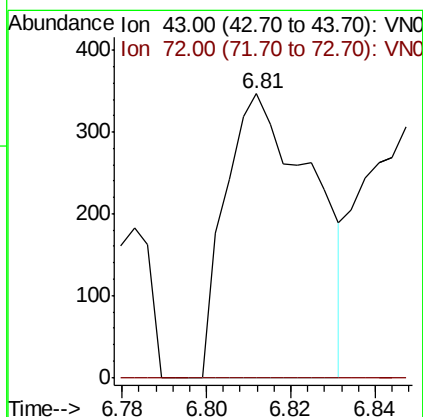
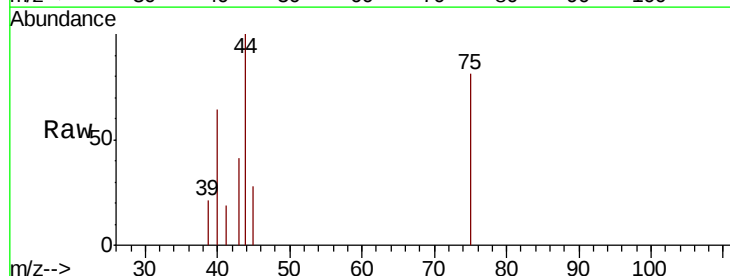
Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#04

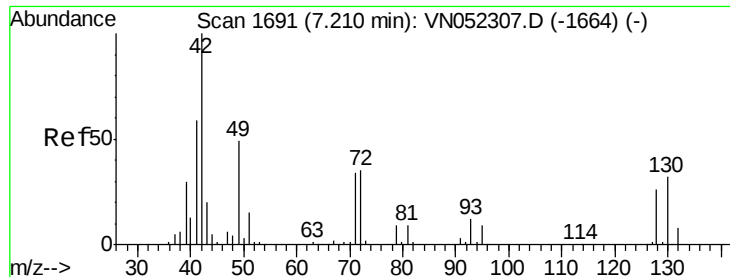
Tot Ion:	84	Resp:	7701
Ion	Ratio	Lower	Upper
84	100		
49	121.9	118.2	177.2
51	37.3	36.1	54.1
86	63.0	51.6	77.4



#25
2-Butanone
Concen: 0.307 ug/l
RT: 6.81 min Scan# 1567
Delta R.T. -0.02 min
Lab File: VN052388.D
Acq: 19 Nov 2018 16:40

Tgt Ion:	43	Resp:	501
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.6	27.8#





#29

Tetrahydrofuran

Concen: 0.420 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. -0.01 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#04

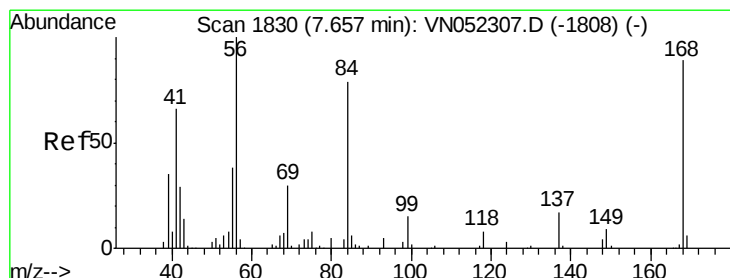
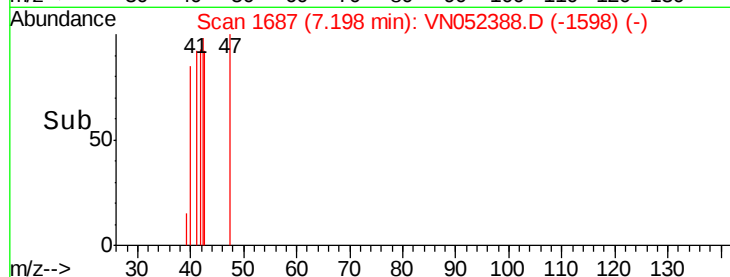
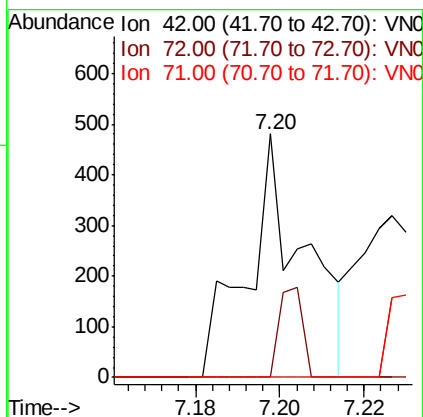
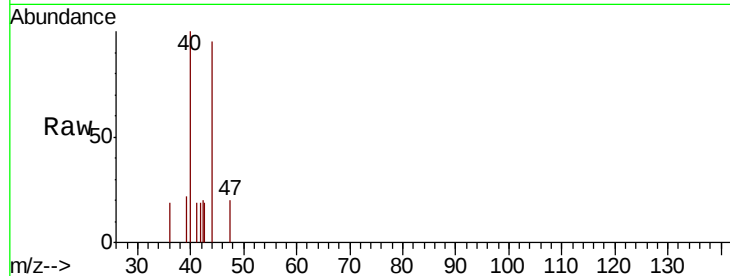
Tot Ion: 42 Resp: 450

Ion Ratio Lower Upper

42 100

72 14.9 28.6 42.8#

71 0.0 26.7 40.1#



#31

Cyclohexane

Concen: 0.306 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

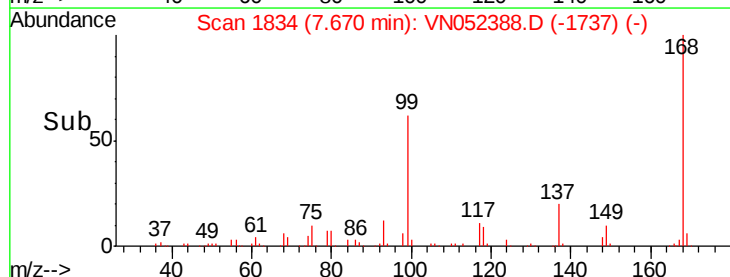
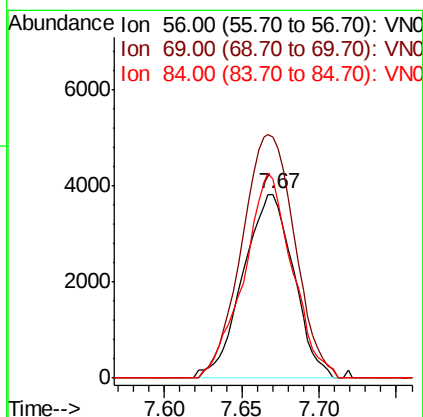
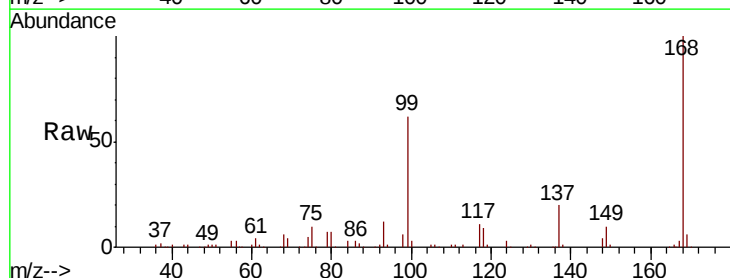
Tgt Ion: 56 Resp: 8707

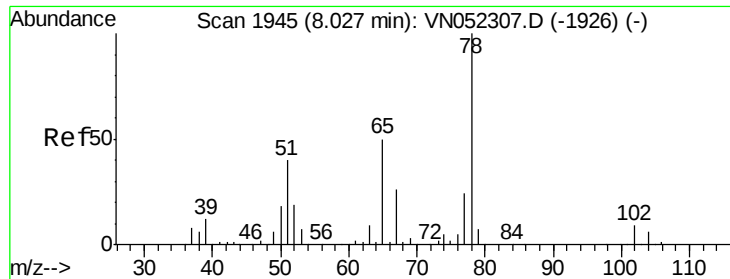
Ion Ratio Lower Upper

56 100

69 130.8 23.8 35.8#

84 107.8 63.0 94.6#

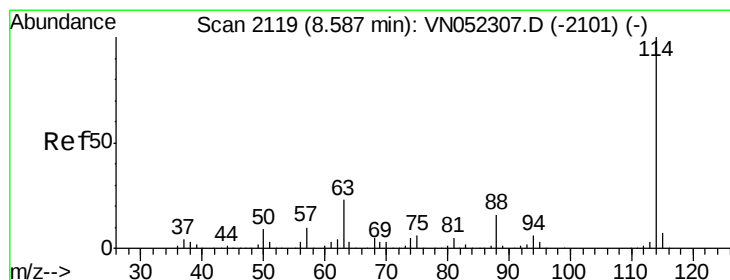
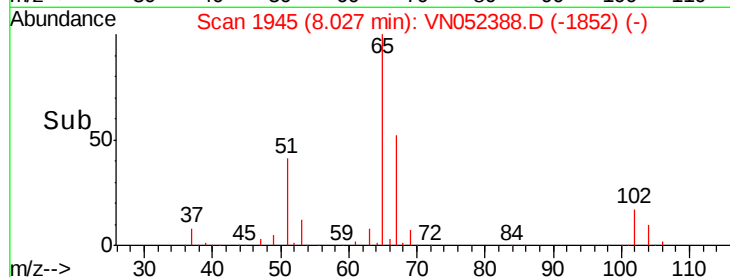
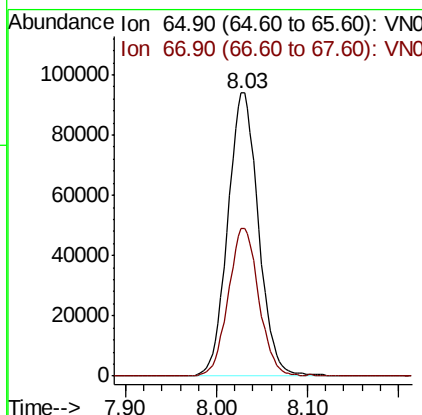
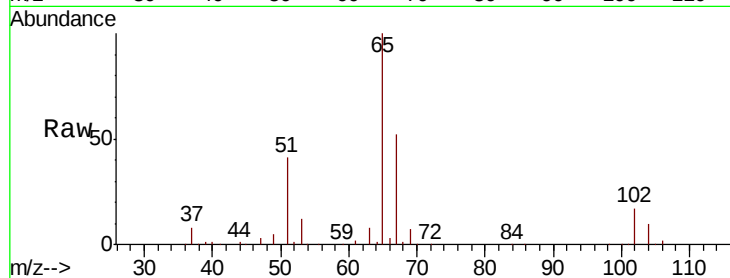




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052388.D
 Acq: 19 Nov 2018 16:40

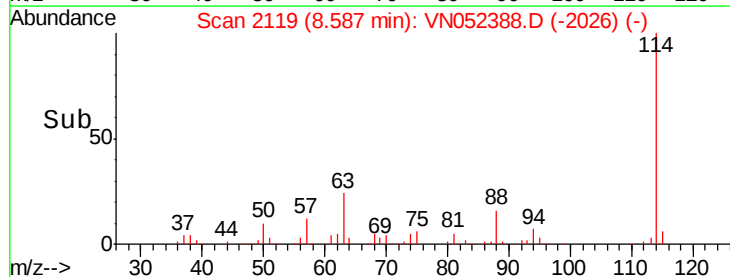
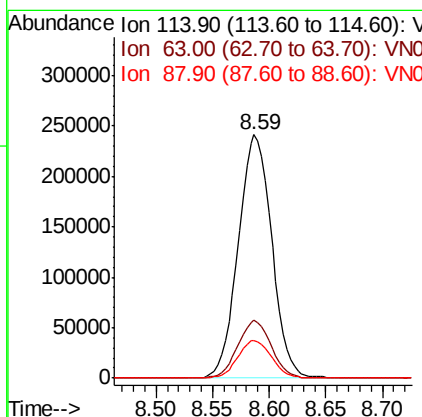
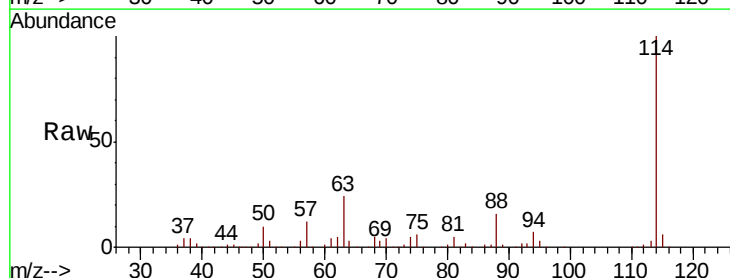
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#04

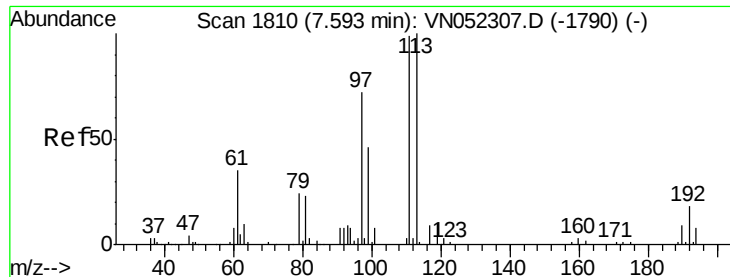
Tot Ion: 65 Resp: 220104
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052388.D
 Acq: 19 Nov 2018 16:40

Tgt Ion: 114 Resp: 497978
 Ion Ratio Lower Upper
 114 100
 63 23.6 0.0 45.4
 88 15.5 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#04

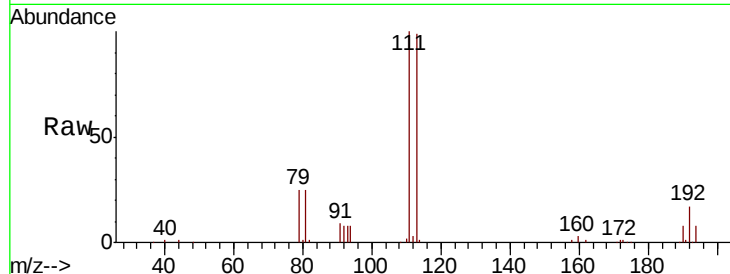
Tot Ion:113 Resp: 165300

Ion Ratio Lower Upper

113 100

111 103.0 81.0 121.6

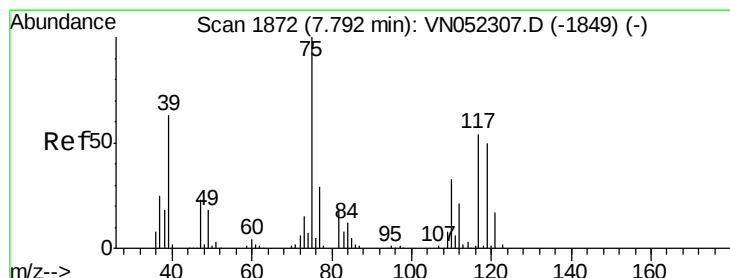
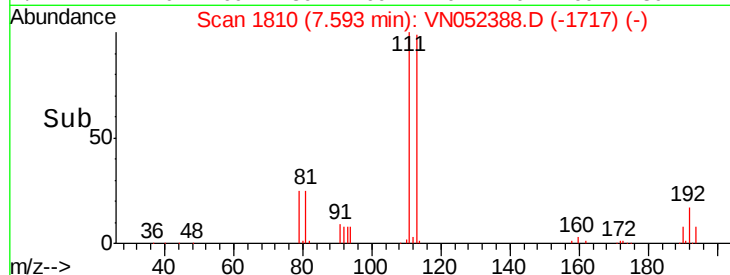
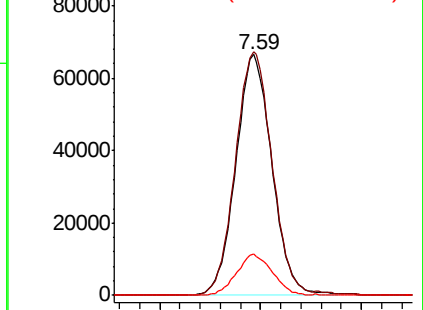
192 17.1 13.8 20.6



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: 5.615 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

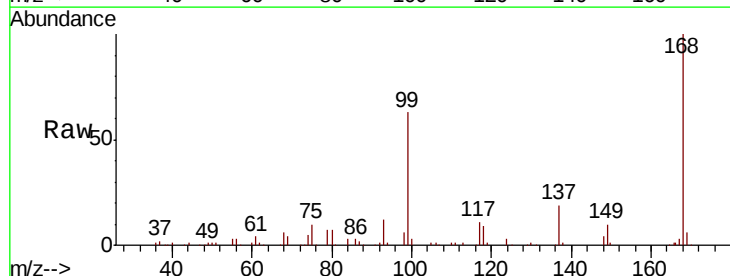
Tgt Ion: 75 Resp: 28028

Ion Ratio Lower Upper

75 100

110 9.0 16.5 49.5#

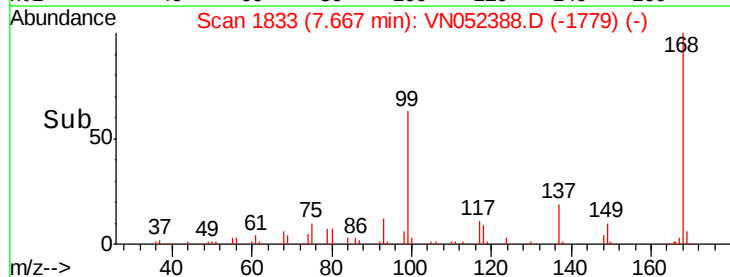
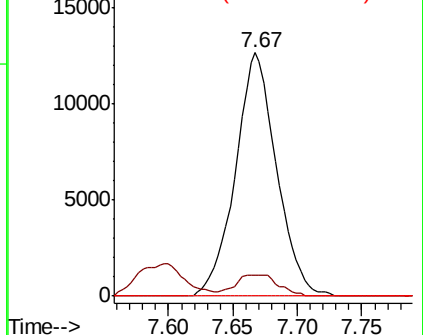
77 0.0 24.2 36.2#

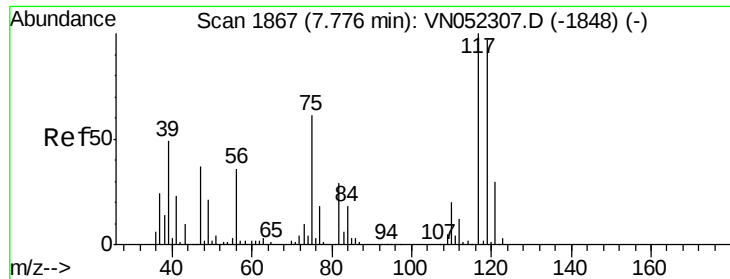


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 7.202 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#04

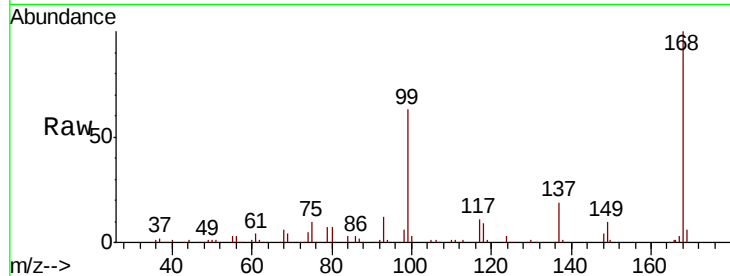
Tot Ion:117 Resp: 33024

Ion Ratio Lower Upper

117 100

119 4.6 77.4 116.0#

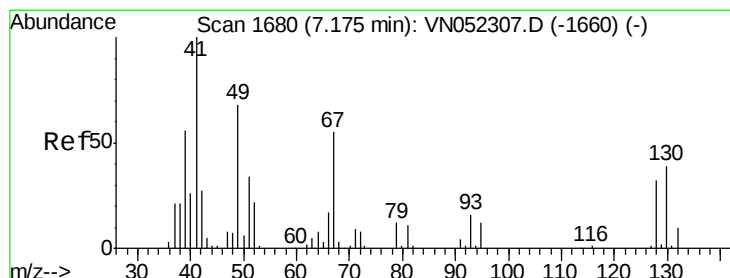
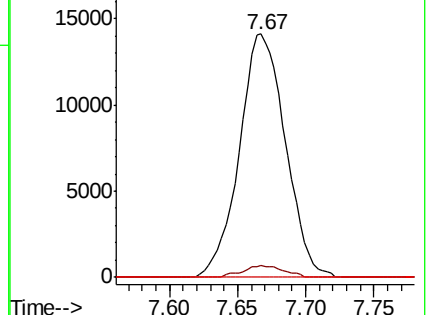
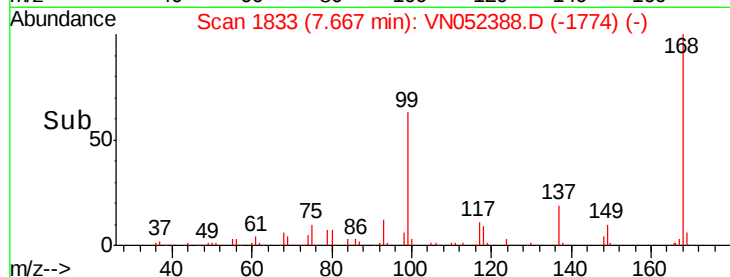
121 0.0 24.0 36.0#



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



#41

Methacrylonitrile

Concen: 3.743 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Tgt Ion: 41 Resp: 103

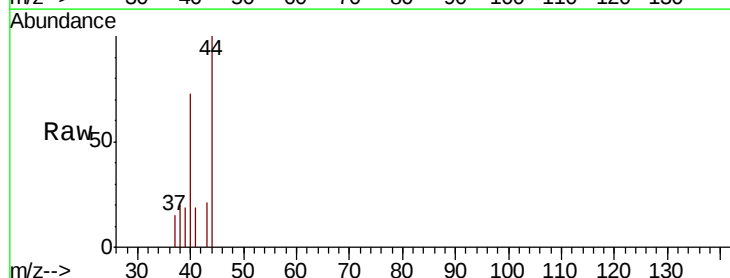
Ion Ratio Lower Upper

41 100

39 0.0 0.0 0.0

67 0.0 0.0 0.0

52 0.0 0.0 0.0

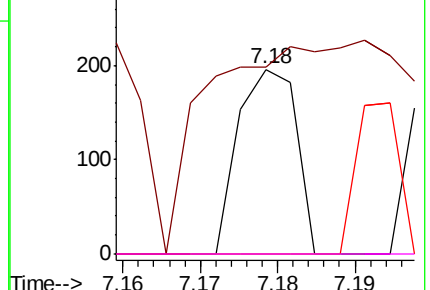
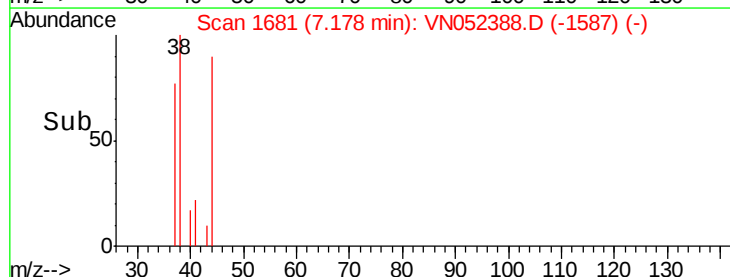


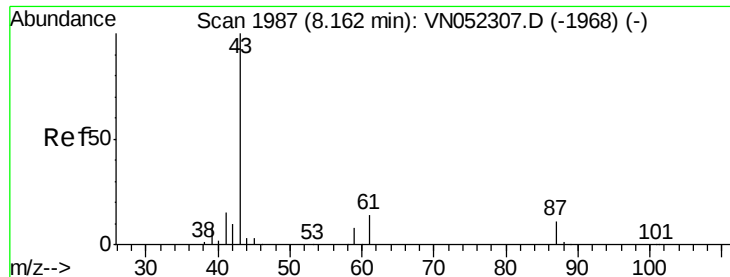
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 2.499 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#04

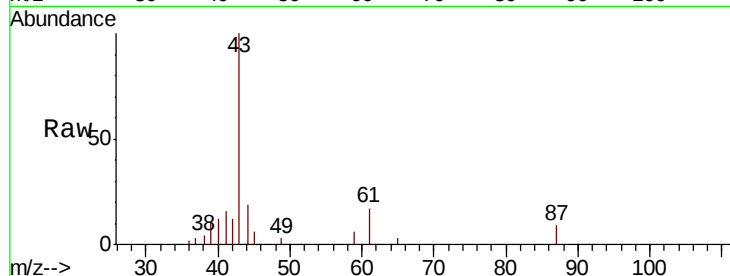
Tot Ion: 43 Resp: 17469

Ion Ratio Lower Upper

43 100

61 17.1 12.0 18.0

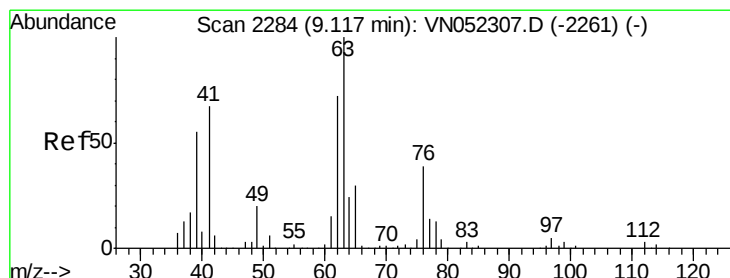
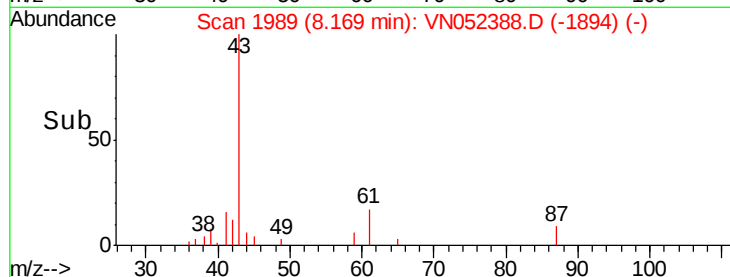
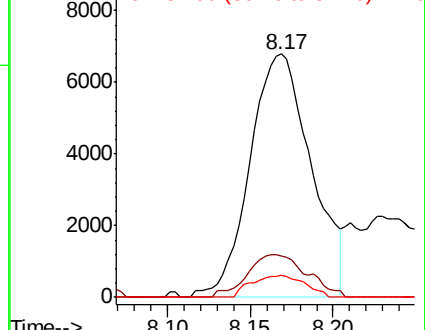
87 7.9 8.3 12.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.269 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN052388.D

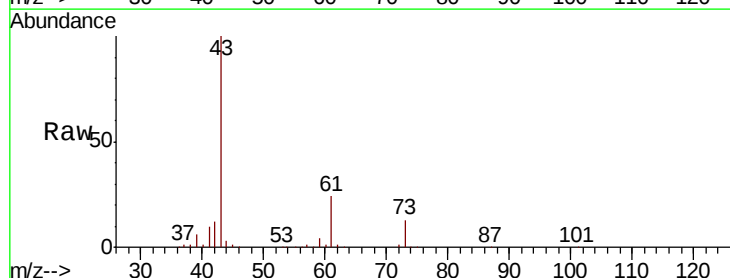
Acq: 19 Nov 2018 16:40

Tgt Ion: 63 Resp: 1090

Ion Ratio Lower Upper

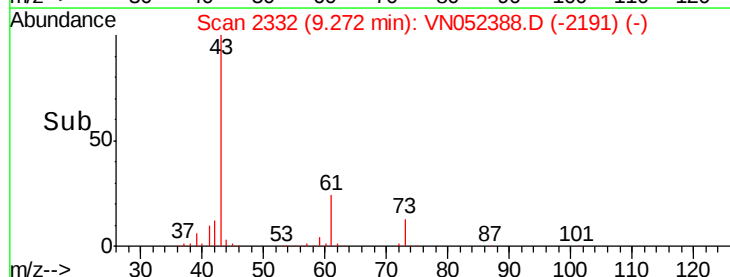
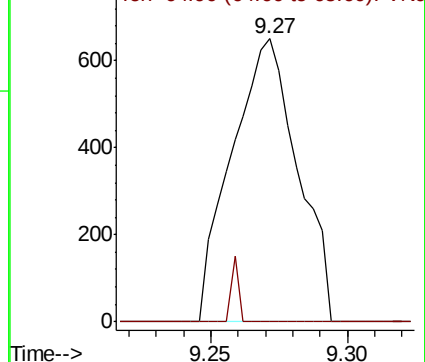
63 100

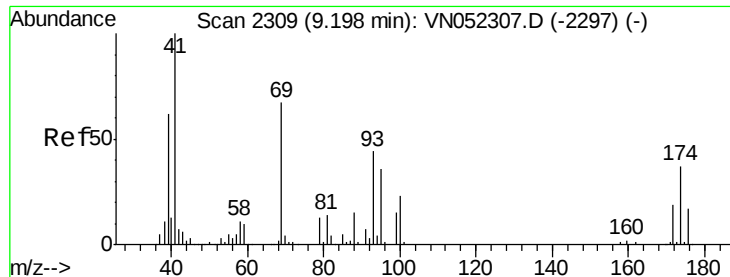
65 0.0 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

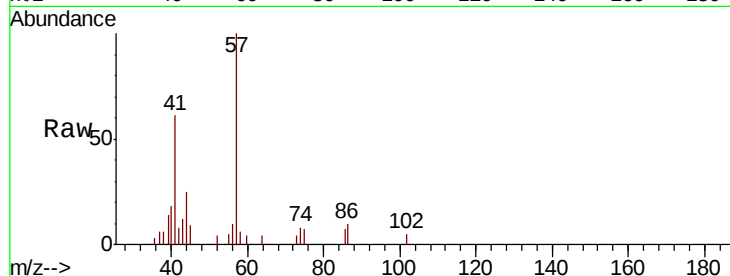




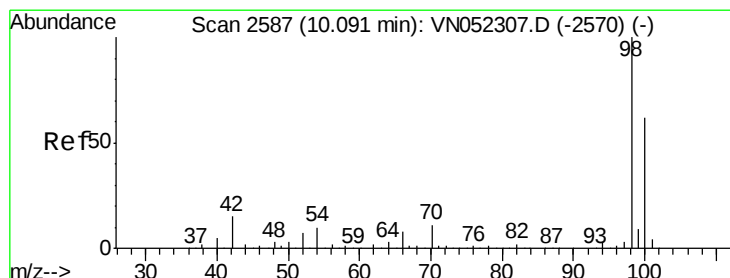
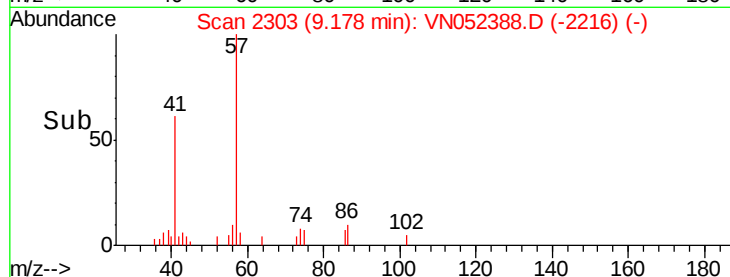
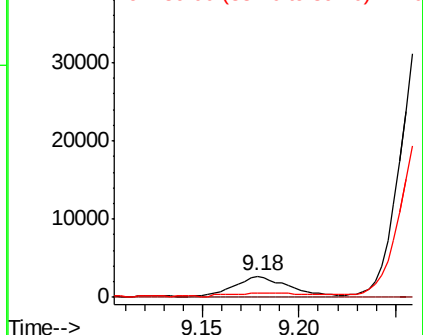
#48
Methvl methacrylate
Concen: 1.537 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052388.D
Acq: 19 Nov 2018 16:40

Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#04

Tot Ion: 41 Resp: 5453
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 33.5 52.5 78.7#

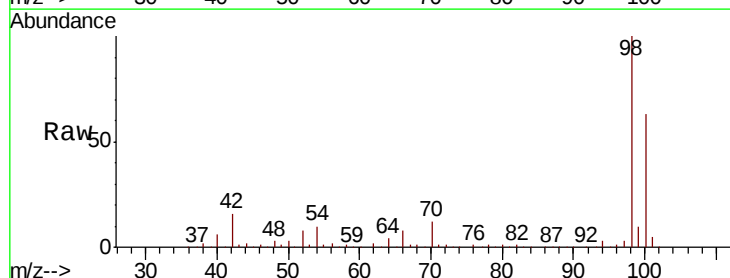


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

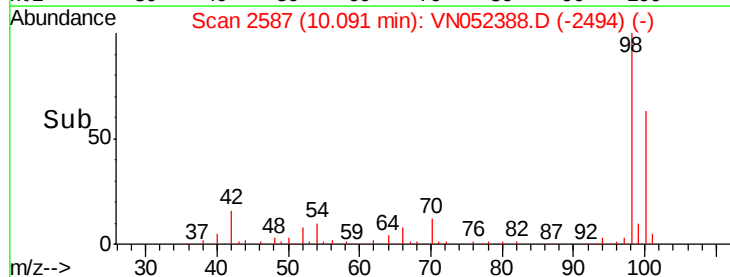
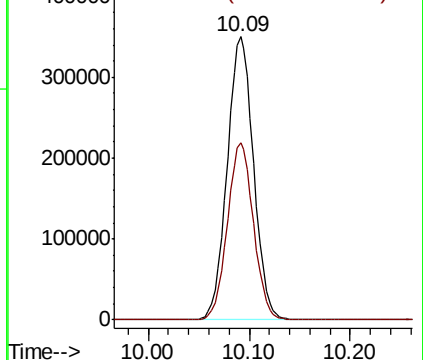


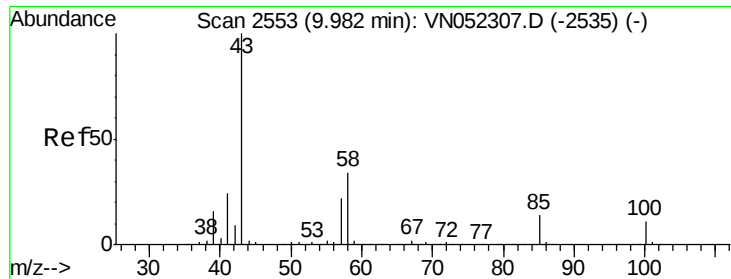
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052388.D
Acq: 19 Nov 2018 16:40

Tgt Ion: 98 Resp: 638046
Ion Ratio Lower Upper
98 100
100 61.8 49.5 74.3



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





#51

4-Methyl-2-Pentanone

Concen: 1.686 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.05 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA_N

ClientSampleId :

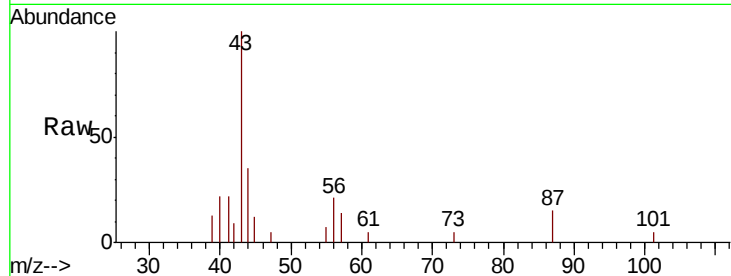
PB114846ZHE#04

Tot Ion: 43 Resp: 5933

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.03

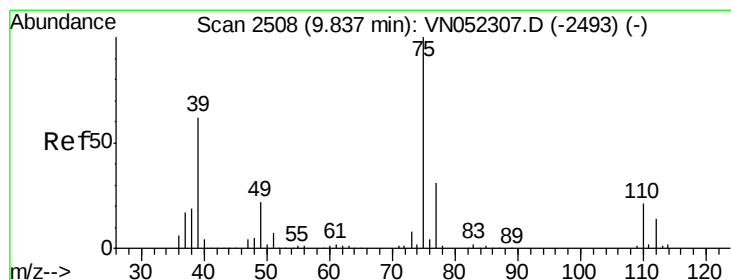
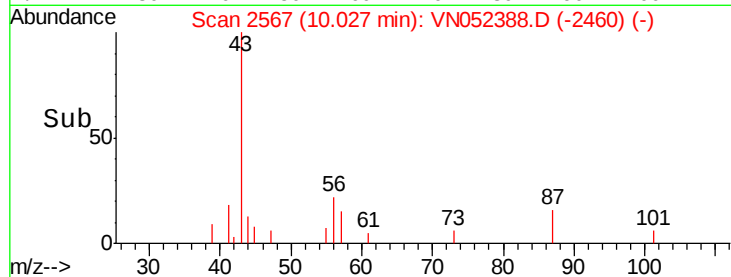
3000

2000

1000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 5.782 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

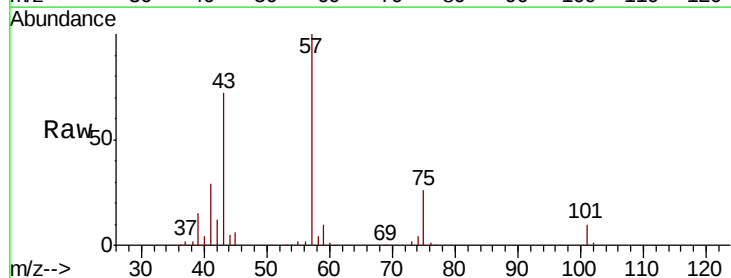
Tgt Ion: 75 Resp: 31954

Ion Ratio Lower Upper

75 100

77 1.0 24.6 36.8#

39 57.8 49.9 74.9



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

9.90

20000

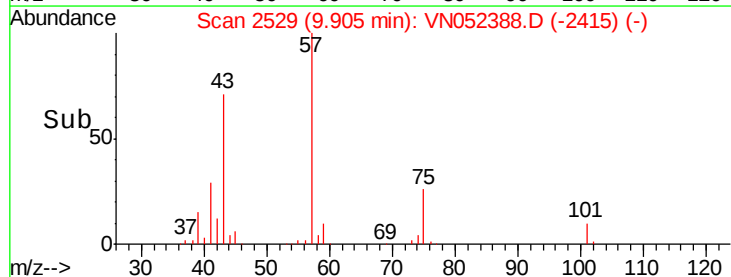
15000

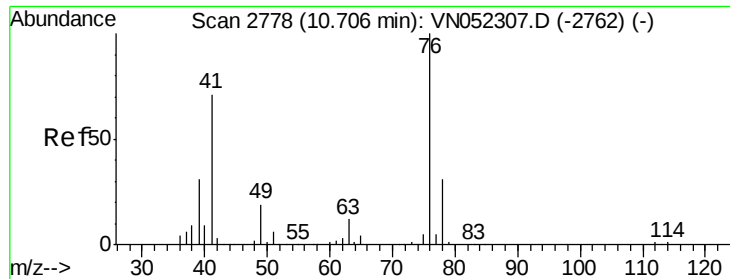
10000

5000

0

Time-->





#57

1,3-Dichloropropane

Concen: 1.117 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA_N

ClientSampleId :

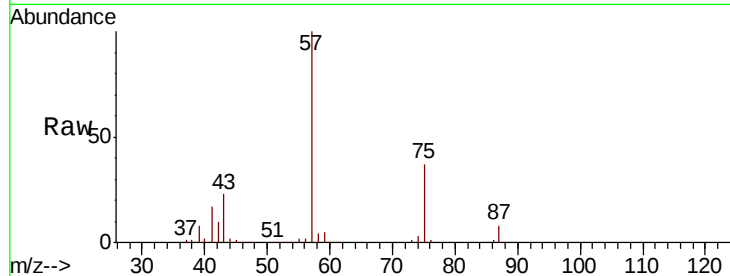
PB114846ZHE#04

Tot Ion: 76 Resp: 6119

Ion Ratio Lower Upper

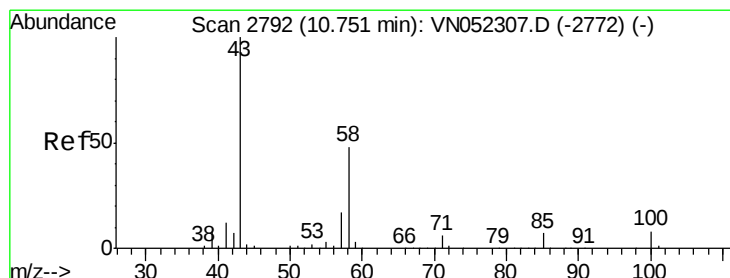
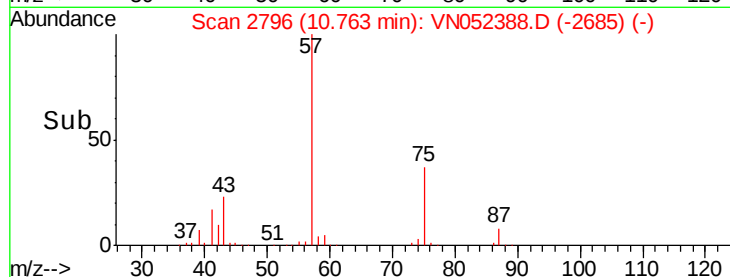
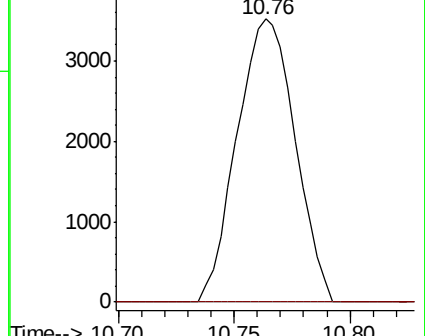
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 47.836 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052388.D

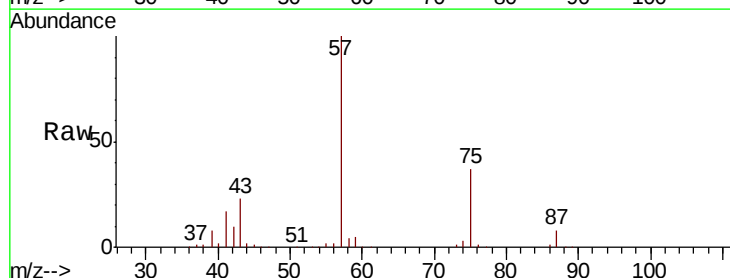
Acq: 19 Nov 2018 16:40

Tgt Ion: 43 Resp: 115770

Ion Ratio Lower Upper

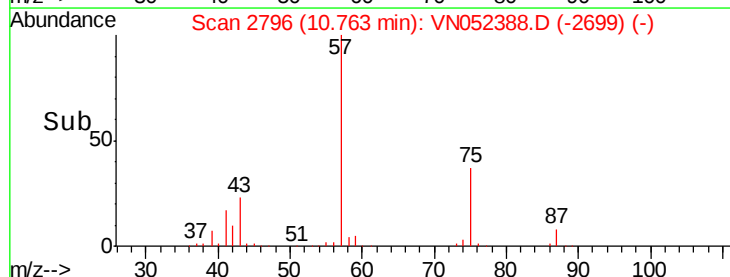
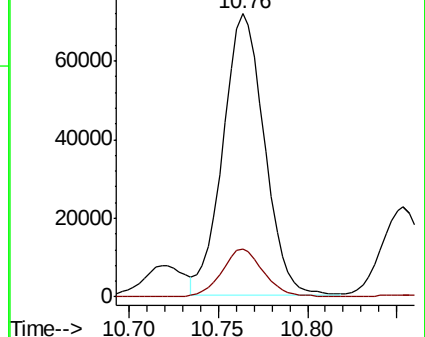
43 100

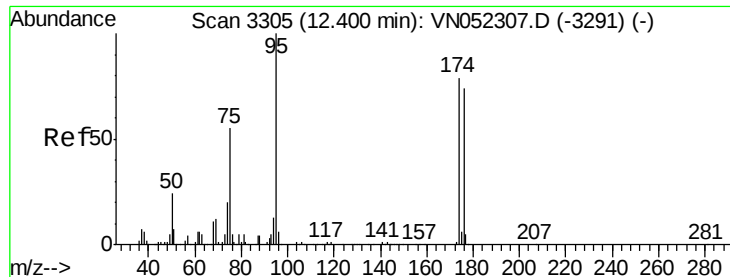
58 17.3 23.5 70.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#04

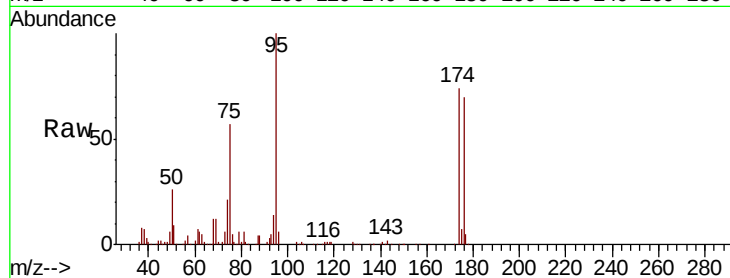
Tot Ion: 95 Resp: 188178

Ion Ratio Lower Upper

95 100

174 74.7 0.0 156.0

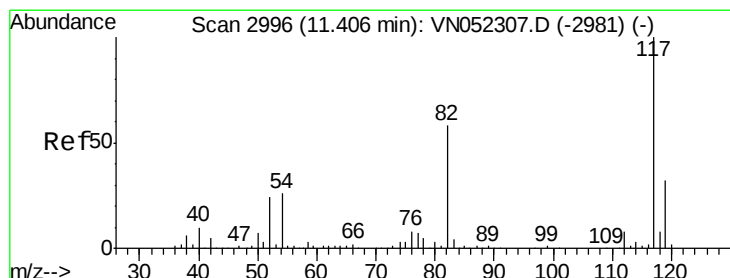
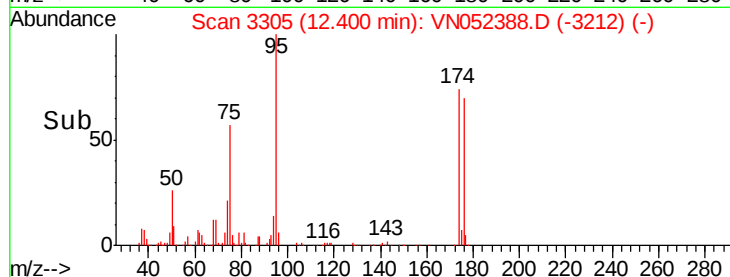
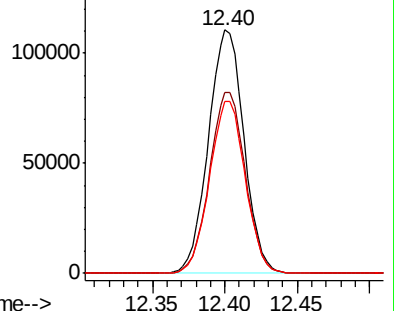
176 71.1 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052388.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052388.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052388.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

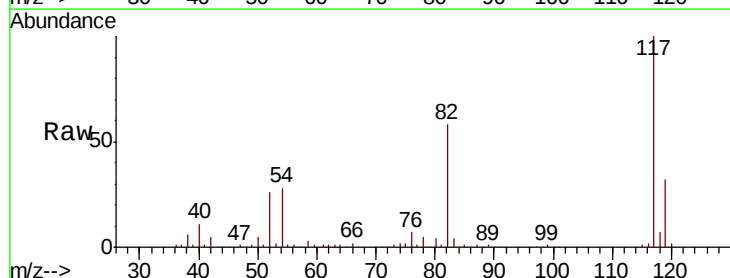
Tgt Ion: 117 Resp: 437458

Ion Ratio Lower Upper

117 100

82 57.9 46.5 69.7

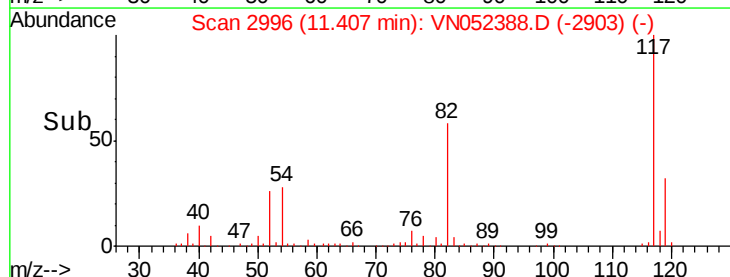
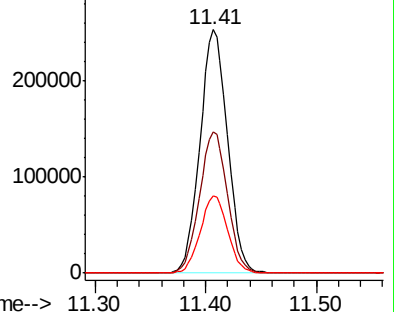
119 31.6 25.7 38.5

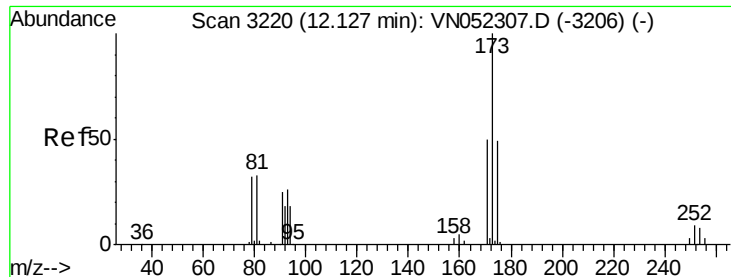


Abundance Ion 116.90 (116.60 to 117.60): VN052388.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052388.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052388.D (-2903) (-)





#71

Bromoform

Concen: 0.579 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#04

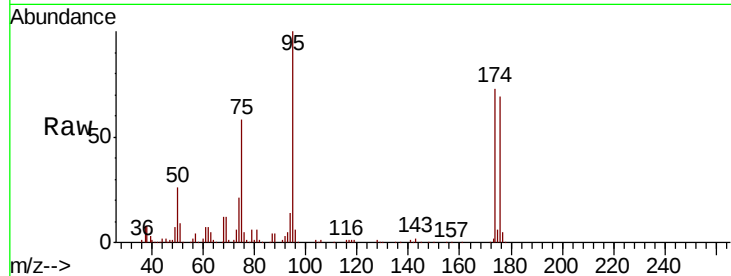
Tot Ion:173 Resp: 1078

Ion Ratio Lower Upper

173 100

175 1002.8 25.0 75.0#

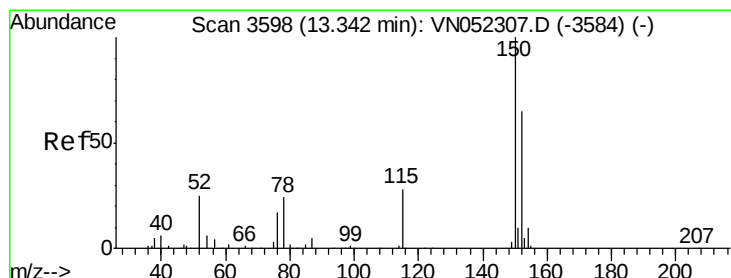
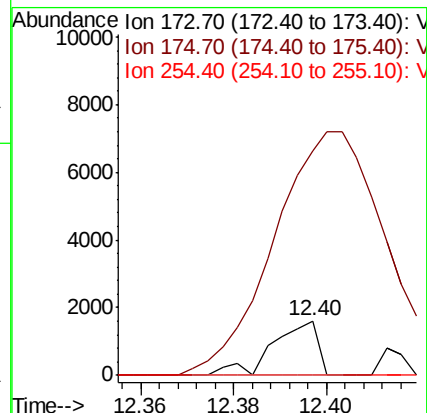
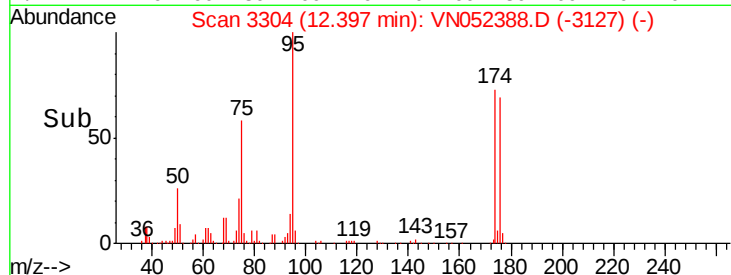
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

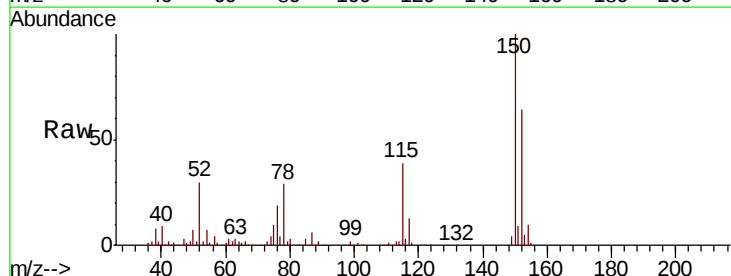
Tgt Ion:152 Resp: 149915

Ion Ratio Lower Upper

152 100

115 61.0 30.3 91.0

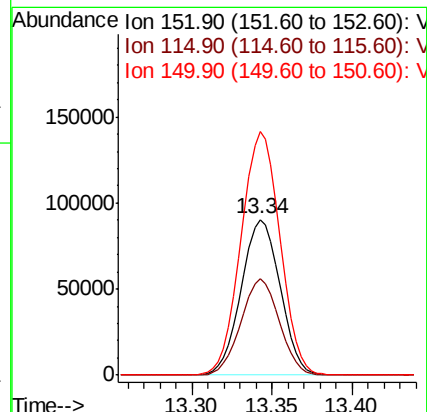
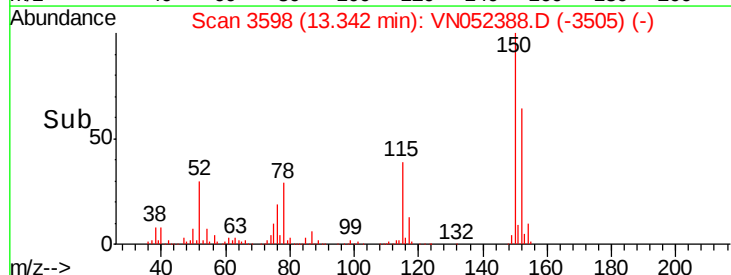
150 156.6 0.0 348.2

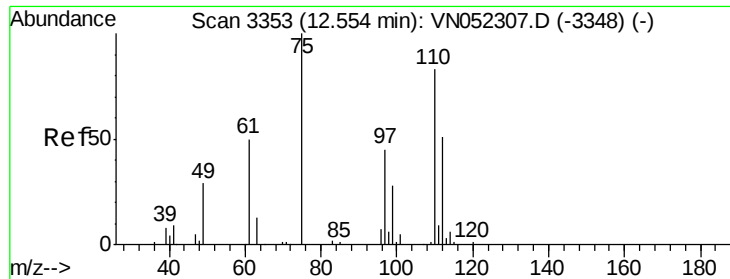


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

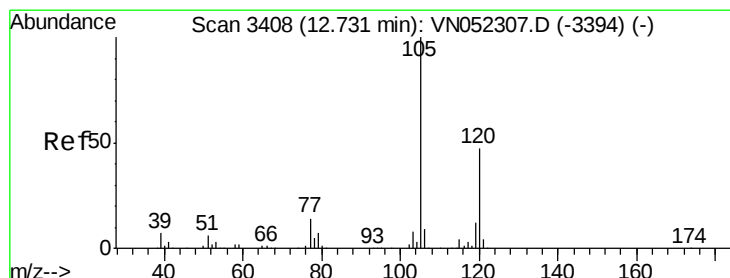
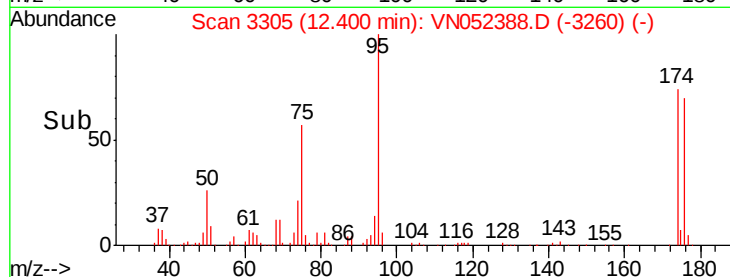
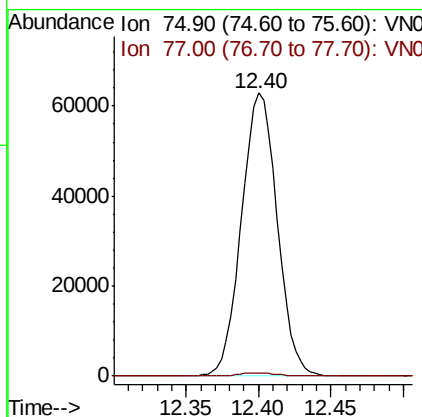
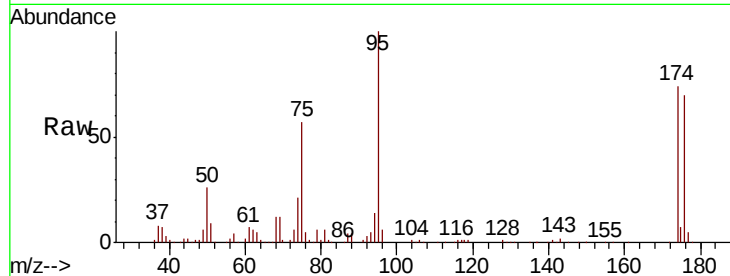




#76
 1,2,3-Trichloropropane
 Concen: 42.394 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.15 min
 Lab File: VN052388.D
 Acq: 19 Nov 2018 16:40

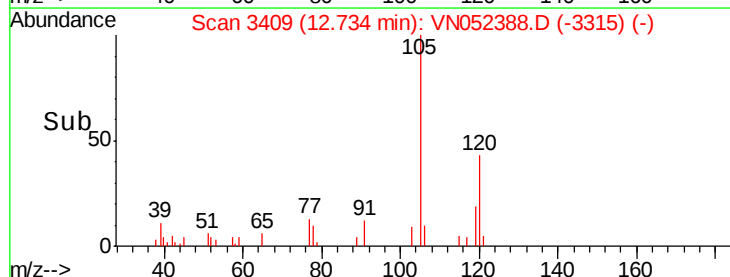
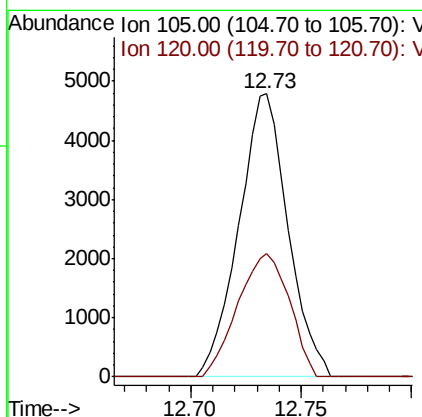
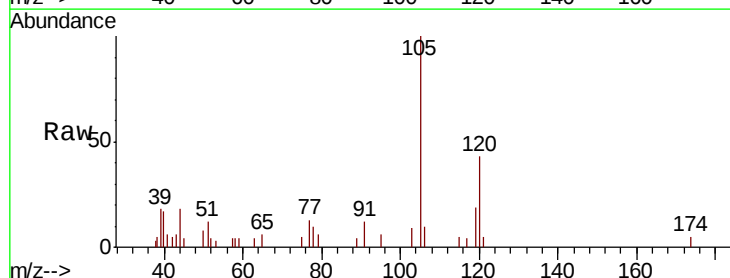
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#04

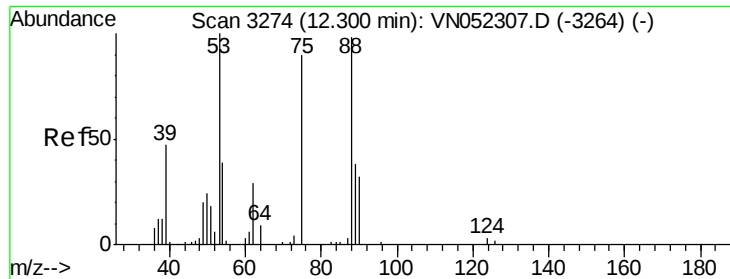
Tot Ion: 75 Resp: 107841
 Ion Ratio Lower Upper
 75 100
 77 1.1 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.771 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN052388.D
 Acq: 19 Nov 2018 16:40

Tgt Ion: 105 Resp: 7394
 Ion Ratio Lower Upper
 105 100
 120 45.6 23.7 71.1





#81

trans-1,4-Dichloro-2-butene

Concen: 137.500 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#04

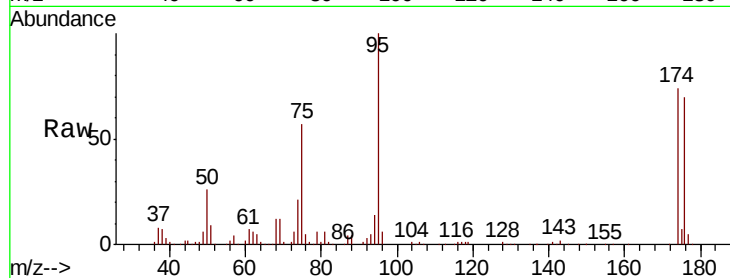
Tot Ion: 75 Resp: 107841

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

89 0.0 35.4 53.0#

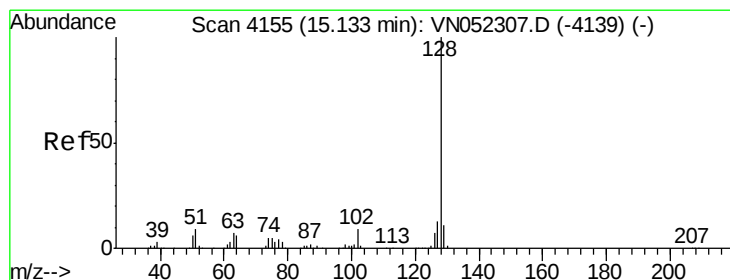
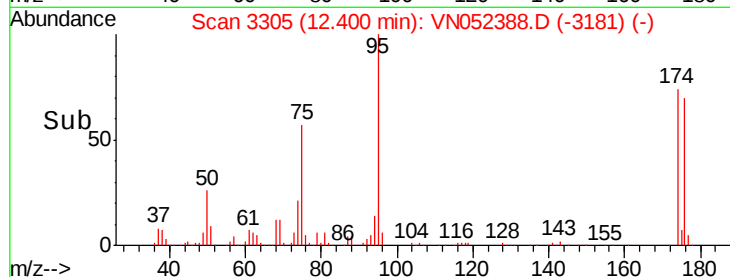
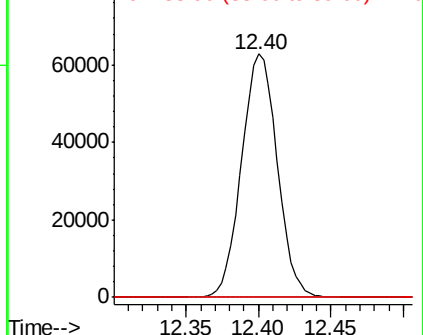


Abundance

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



#95

Naphthalene

Concen: 2.618 ug/l

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN052388.D

Acq: 19 Nov 2018 16:40

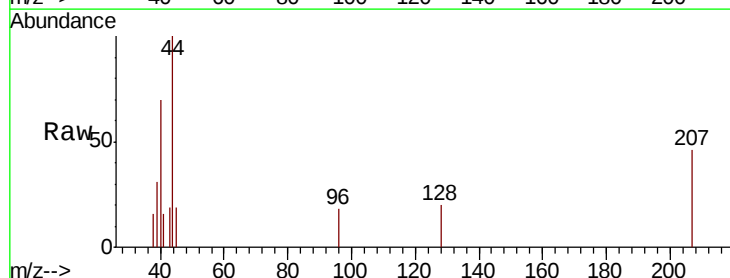
Tgt Ion: 128 Resp: 73

Ion Ratio Lower Upper

128 100

127 0.0 10.4 15.6#

129 0.0 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

