

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101018\
 Data File : VN051792.D
 Acq On : 10 Oct 2018 15:45
 Operator : MD\SY
 Sample : PB113684ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113684ZHE#03

Quant Time: Oct 11 01:58:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N100418W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 06:03:49 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	813776	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1168227	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1047999	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	413447	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	465407	43.29	ug/l	0.00
Spiked Amount			Recovery	=	86.58%	
35) Dibromofluoromethane	7.59	113	432408	47.88	ug/l	0.00
Spiked Amount			Recovery	=	95.76%	
50) Toluene-d8	10.09	98	1655622	49.14	ug/l	0.00
Spiked Amount			Recovery	=	98.28%	
62) 4-Bromofluorobenzene	12.40	95	484447	40.62	ug/l	0.00
Spiked Amount			Recovery	=	81.24%	

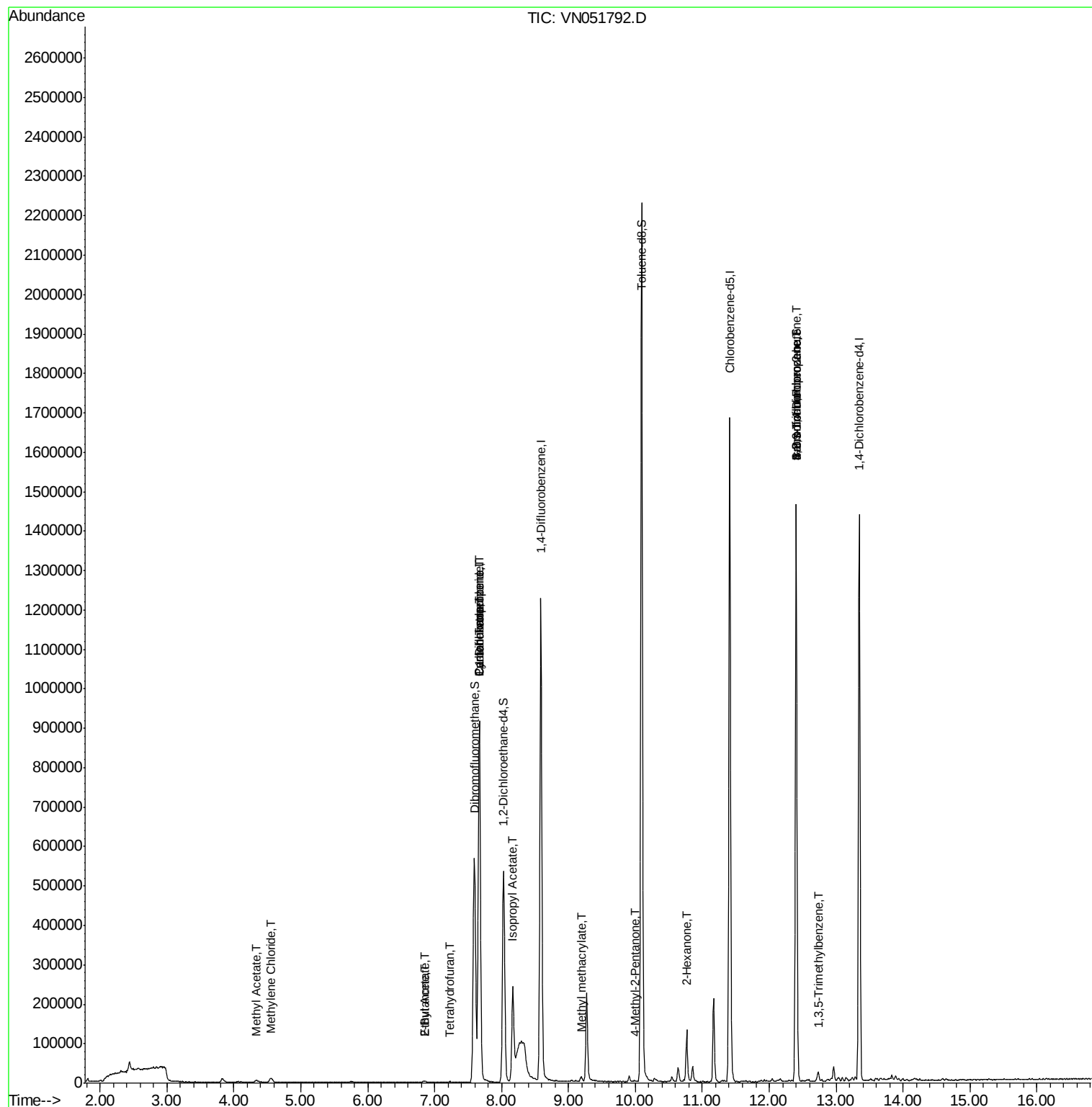
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
7) Trichlorofluoromethane	2.95	101	33	Below Cal	#	18
13) Acrolein	3.62	56	99	Below Cal	#	14
16) Acetone	3.82	43	16813	Below Cal		95
18) Methyl Acetate	4.33	43	8268	1.393	ug/l #	77
20) Methylene Chloride	4.55	84	4709	0.532	ug/l #	78
25) 2-Butanone	6.85	43	4156	1.339	ug/l	97
29) Tetrahydrofuran	7.22	42	1785	0.937	ug/l #	61
31) Cyclohexane	7.67	56	13759	0.943	ug/l #	12
36) 1,1-Dichloropropene	7.67	75	50736	4.155	ug/l #	49
37) Ethyl Acetate	6.85	43	4156	0.653	ug/l #	67
38) Carbon Tetrachloride	7.67	117	74650	5.095	ug/l #	16
41) Methacrylonitrile	7.17	41	235	Below Cal	#	24
43) Isopropyl Acetate	8.17	43	298866	22.508	ug/l	99
48) Methyl methacrylate	9.18	41	6670	1.099	ug/l #	6
51) 4-Methyl-2-Pentanone	9.99	43	1546	0.230	ug/l #	80
59) 2-Hexanone	10.77	43	17978	3.934	ug/l #	54
71) Bromoform	12.40	173	3920	0.507	ug/l #	1
74) N-amyl acetate	12.04	43	1789	Below Cal	#	53
75) 1,1,2,2-Tetrachloroethane	12.50	83	81	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	248863	48.304	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7756	0.261	ug/l	94
81) trans-1,4-Dichloro-2-buten	12.40	75	248863	110.645	ug/l #	14

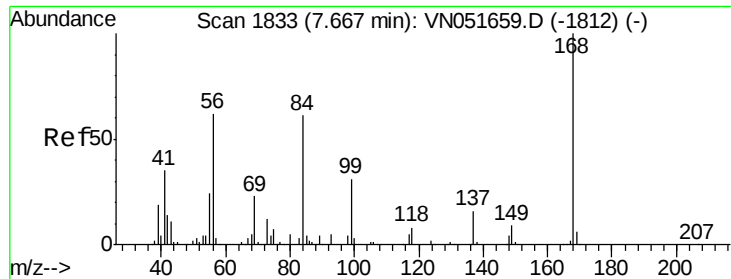
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

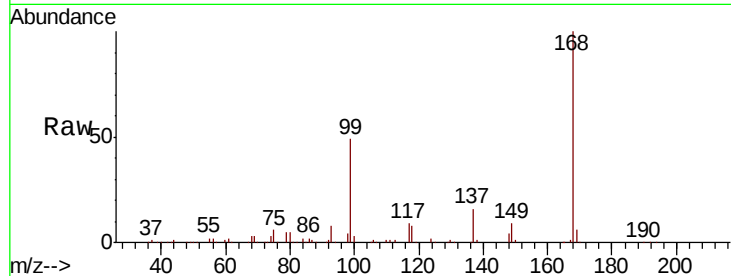
PB113684ZHE#03

Tot Ion:168 Resp: 813776

Ion Ratio Lower Upper

168 100

99 49.4 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

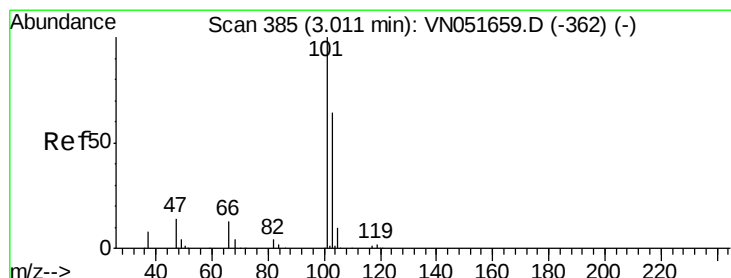
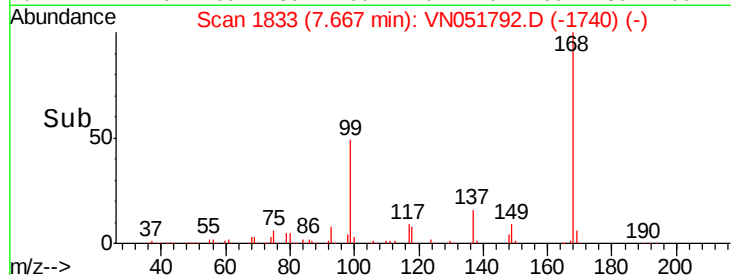
300000

200000

100000

0

Time-->



#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.95 min Scan# 365

Delta R.T. -0.06 min

Lab File: VN051792.D

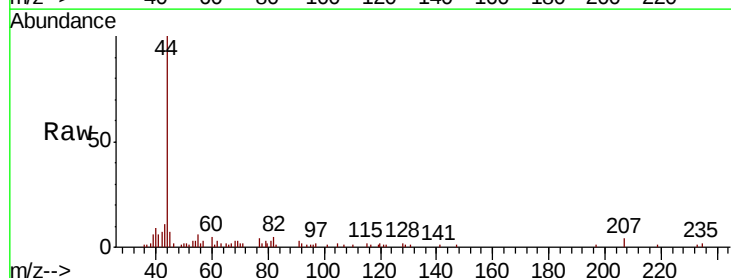
Acq: 10 Oct 2018 15:45

Tgt Ion:101 Resp: 33

Ion Ratio Lower Upper

101 100

103 0.0 51.1 76.7#



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

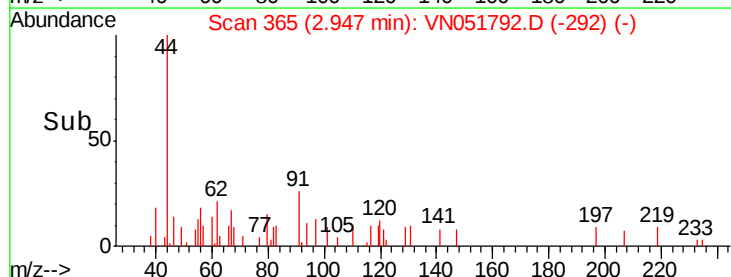
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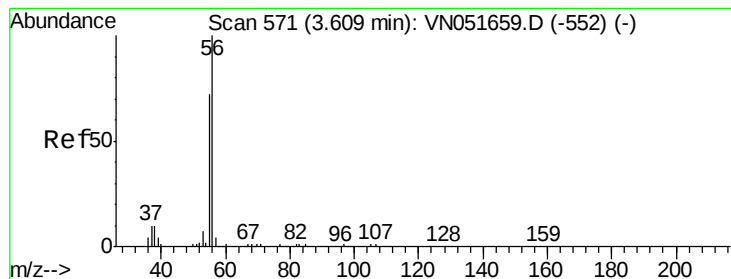
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.62 min Scan# 575

Delta R.T. 0.01 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

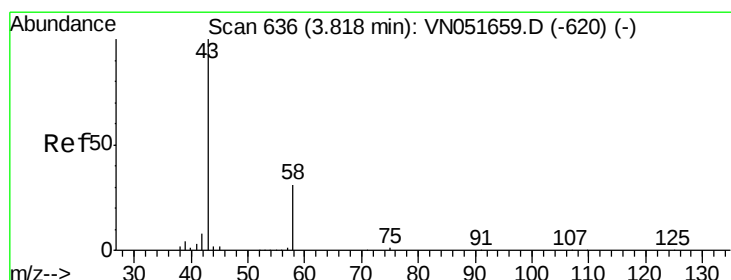
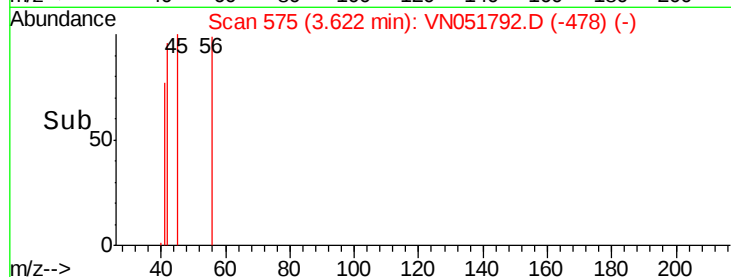
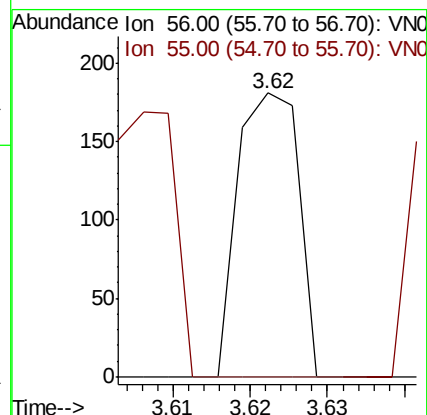
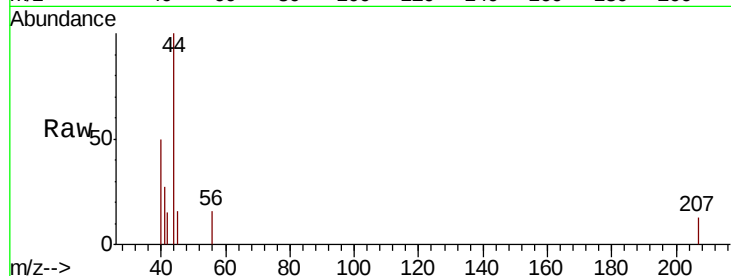
PB113684ZHE#03

Tot Ion: 56 Resp: 99

Ion Ratio Lower Upper

56 100

55 0.0 57.5 86.3#



#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051792.D

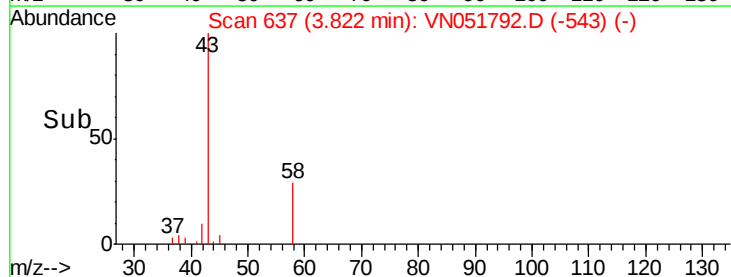
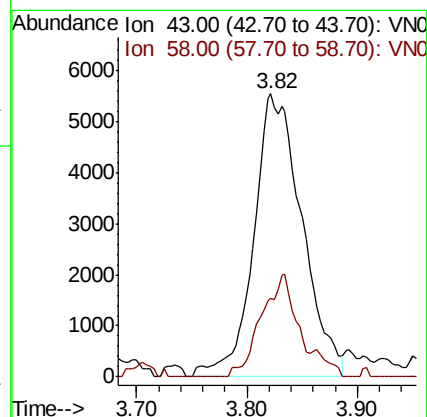
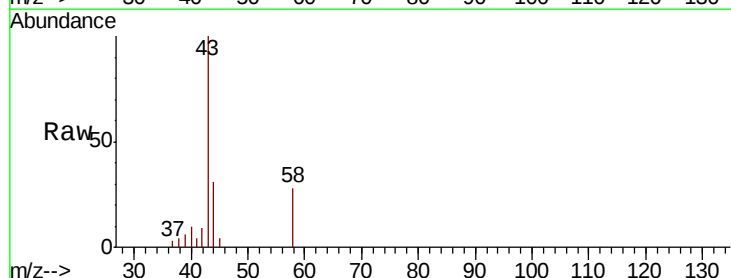
Acq: 10 Oct 2018 15:45

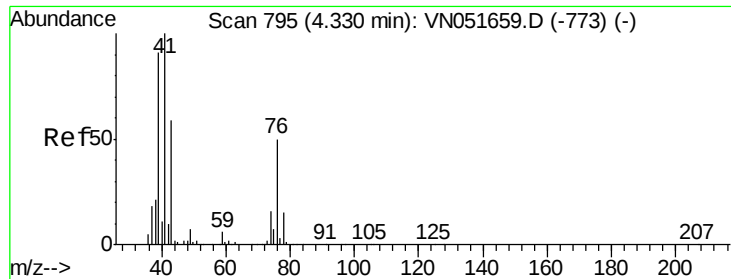
Tgt Ion: 43 Resp: 16813

Ion Ratio Lower Upper

43 100

58 27.8 24.3 36.5

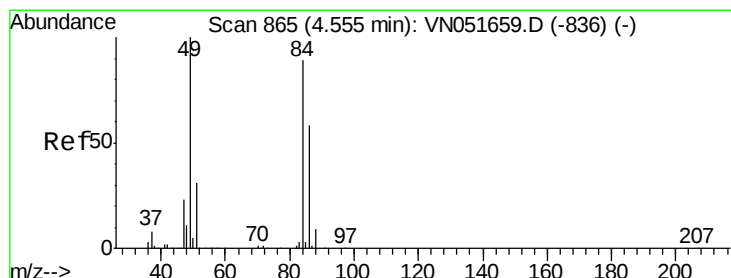
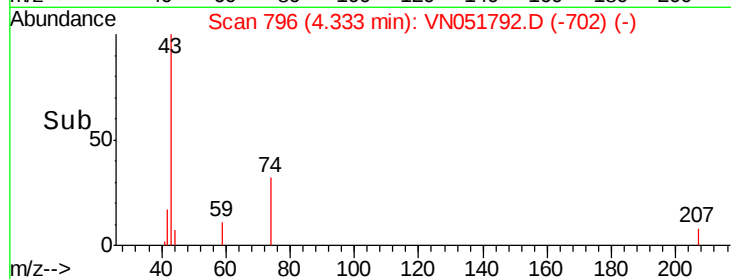
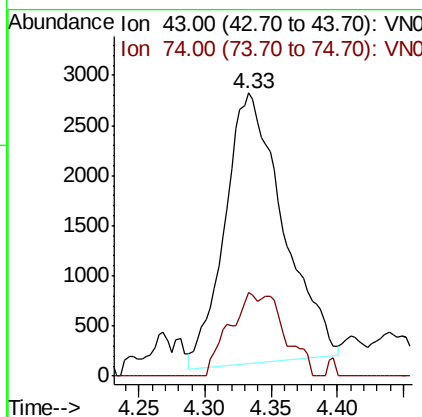
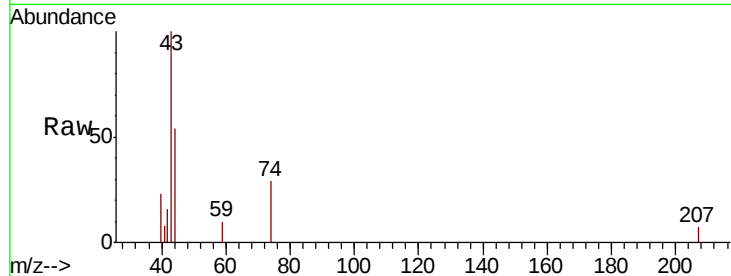




#18
Methyl Acetate
Concen: 1.393 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN051792.D
Acq: 10 Oct 2018 15:45

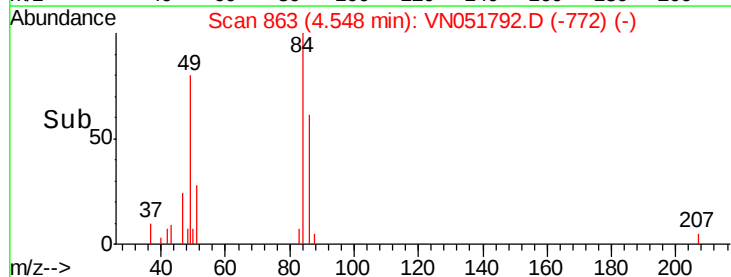
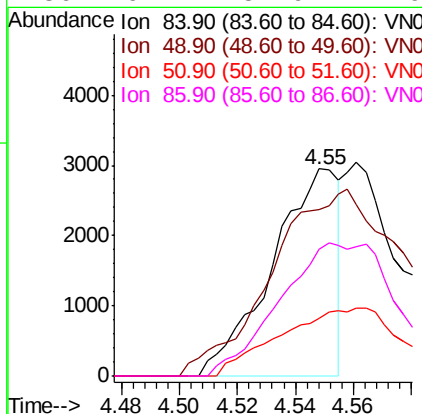
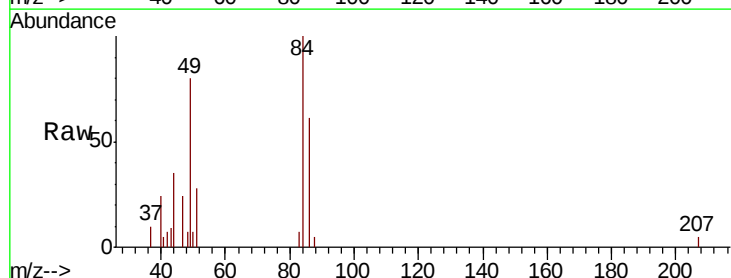
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#03

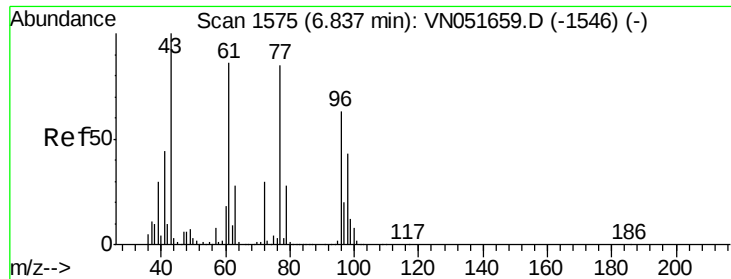
Tot Ion: 43 Resp: 8268
Ion Ratio Lower Upper
43 100
74 15.0 21.5 32.3#



#20
Methylene Chloride
Concen: 0.532 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN051792.D
Acq: 10 Oct 2018 15:45

Tgt Ion: 84 Resp: 4709
Ion Ratio Lower Upper
84 100
49 73.8 89.5 134.3#
51 27.8 27.4 41.0
86 61.1 51.9 77.9

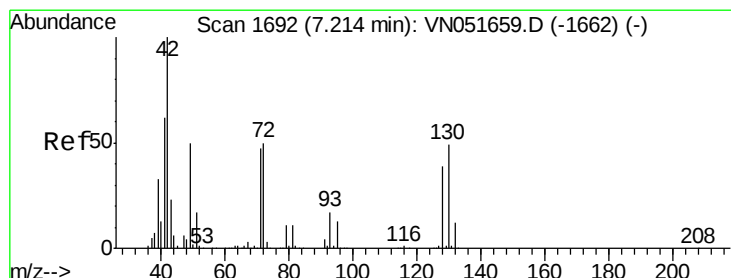
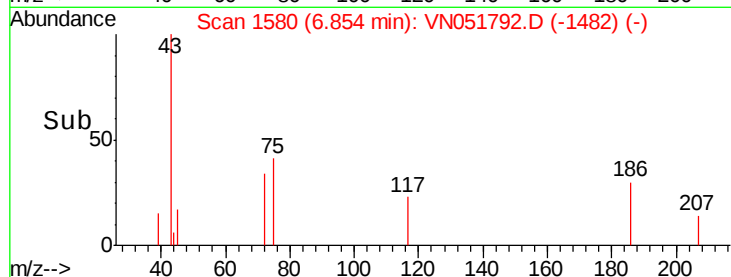
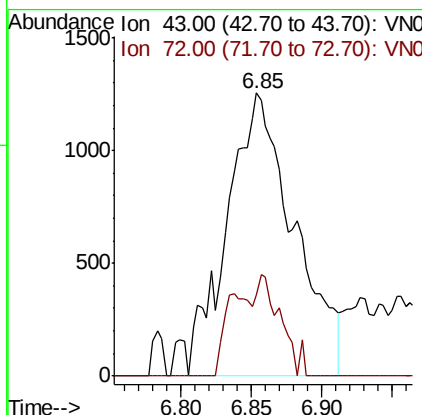
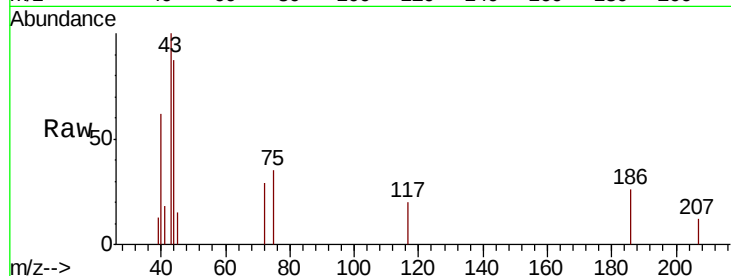




#25
2-Butanone
Concen: 1.339 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.02 min
Lab File: VN051792.D
Acq: 10 Oct 2018 15:45

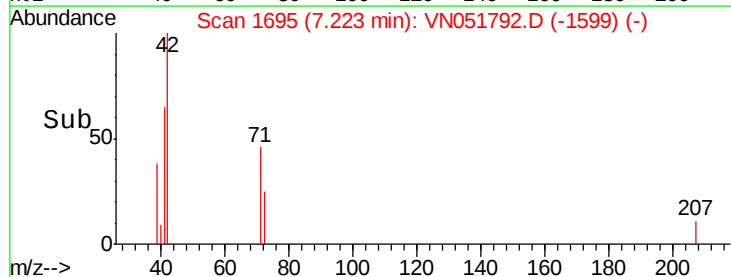
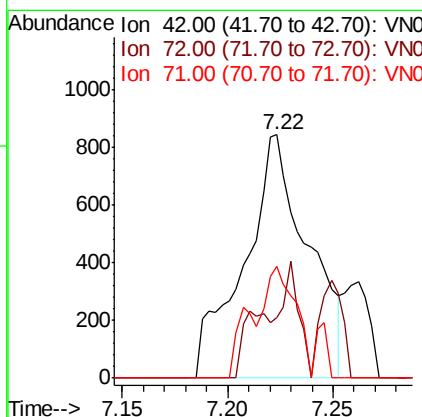
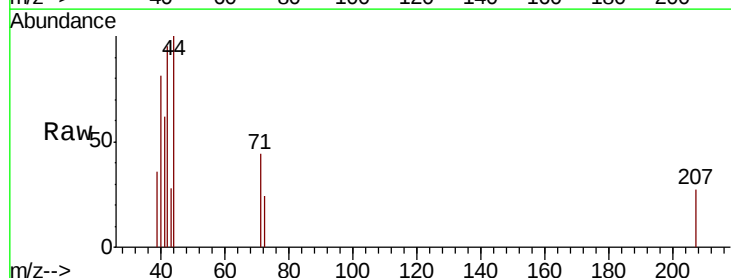
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#03

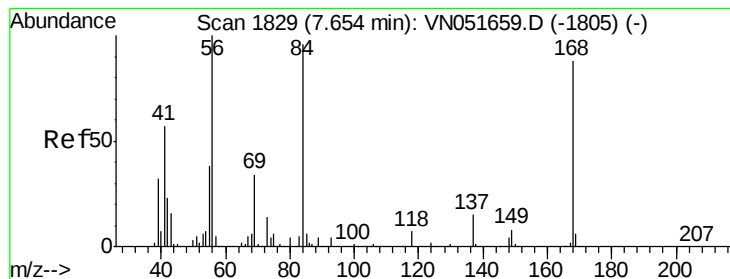
Tot Ion: 43 Resp: 4156
Ion Ratio Lower Upper
43 100
72 28.6 24.2 36.2



#29
Tetrahydrofuran
Concen: 0.937 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.01 min
Lab File: VN051792.D
Acq: 10 Oct 2018 15:45

Tgt Ion: 42 Resp: 1785
Ion Ratio Lower Upper
42 100
72 13.7 40.1 60.1#
71 30.8 38.0 57.0#





#31

Cyclohexane

Concen: 0.943 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#03

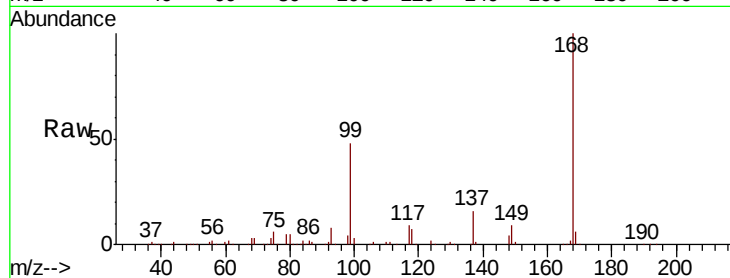
Tot Ion: 56 Resp: 13759

Ion Ratio Lower Upper

56 100

69 179.0 27.5 41.3#

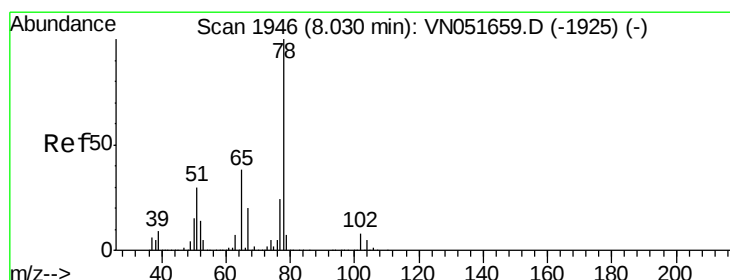
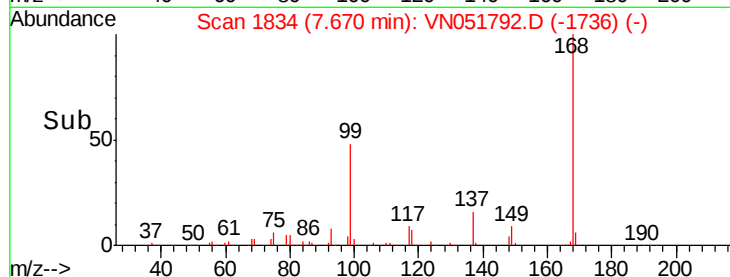
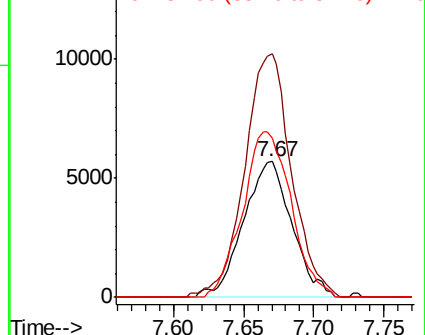
84 124.2 76.7 115.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051792.D

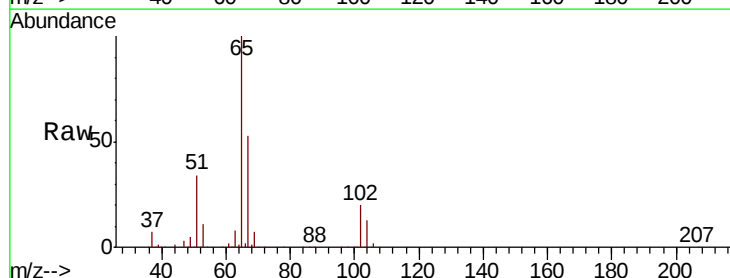
Acq: 10 Oct 2018 15:45

Tgt Ion: 65 Resp: 465407

Ion Ratio Lower Upper

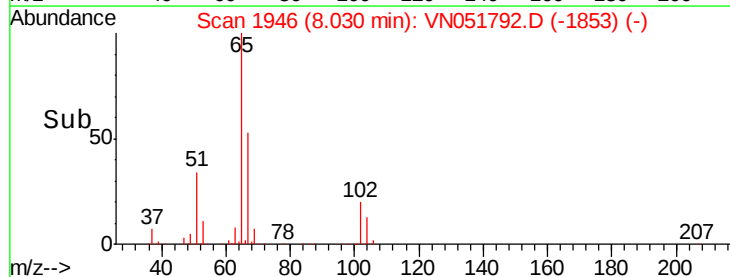
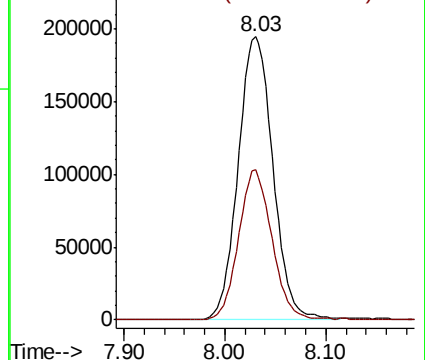
65 100

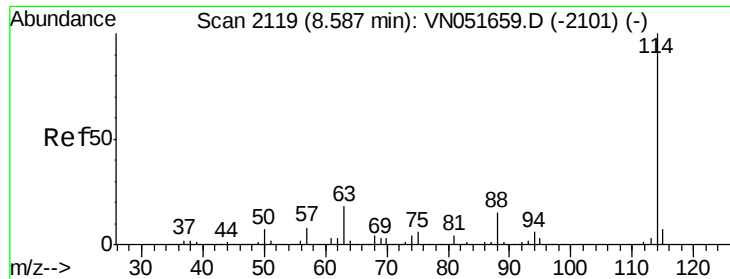
67 50.9 0.0 103.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



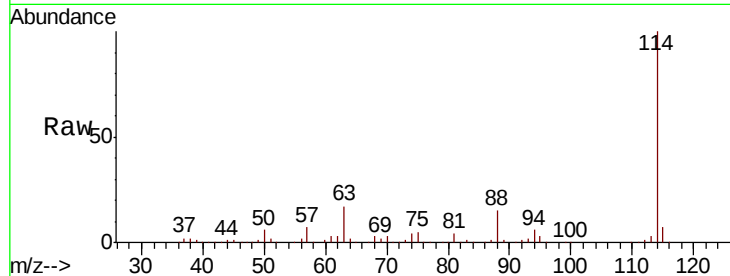


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051792.D
 Acq: 10 Oct 2018 15:45

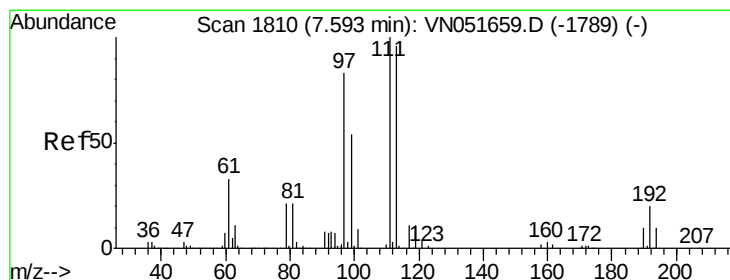
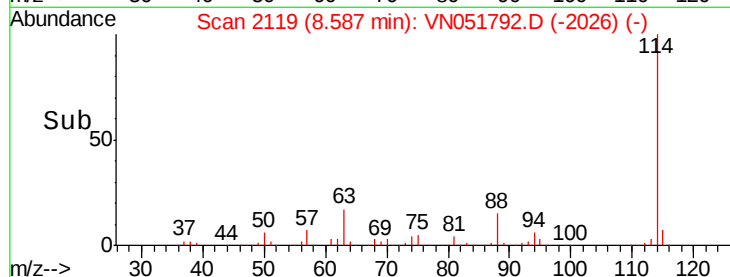
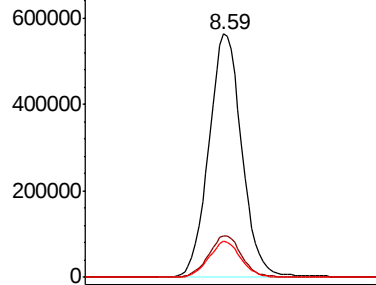
Instrument :
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 PB113684ZHE#03

Tot Ion:114 Resp: 1168227

Ion	Ratio	Lower	Upper
114	100		
63	17.2	0.0	36.2
88	14.7	0.0	30.2



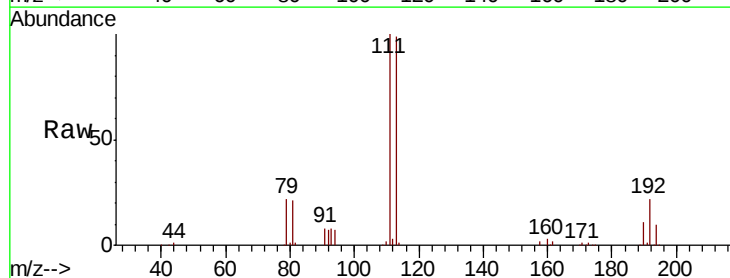
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



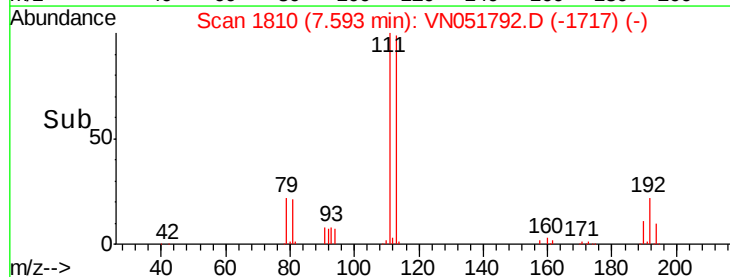
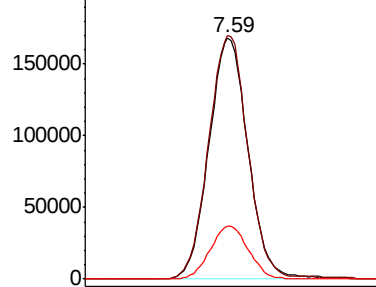
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051792.D
 Acq: 10 Oct 2018 15:45

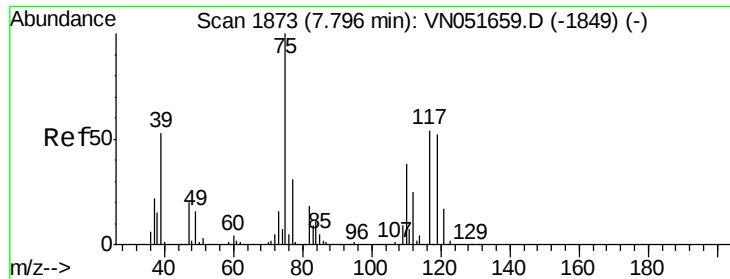
Tgt Ion:113 Resp: 432408

Ion	Ratio	Lower	Upper
113	100		
111	101.1	81.8	122.8
192	21.7	16.5	24.7



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.155 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.13 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#03

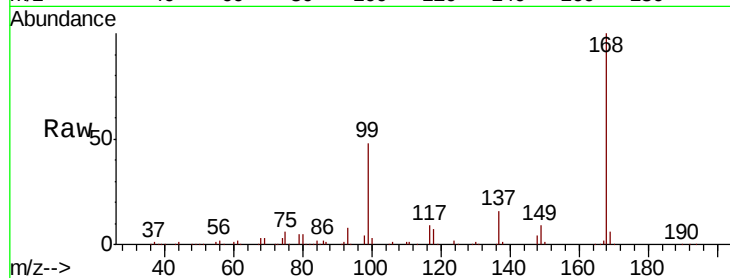
Tot Ion: 75 Resp: 50736

Ion Ratio Lower Upper

75 100

110 10.4 19.3 57.8#

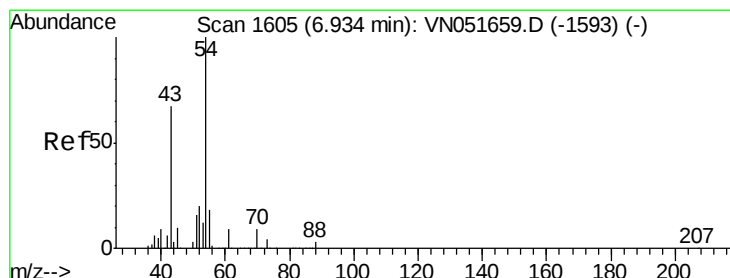
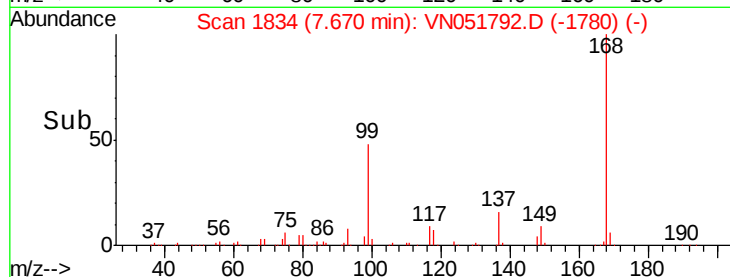
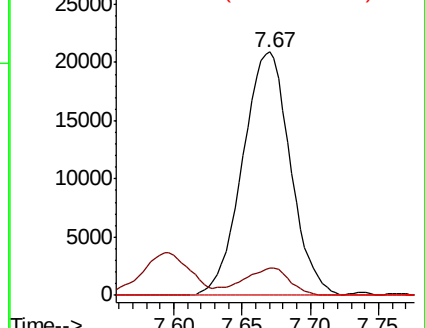
77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#37

Ethyl Acetate

Concen: 0.653 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. -0.08 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

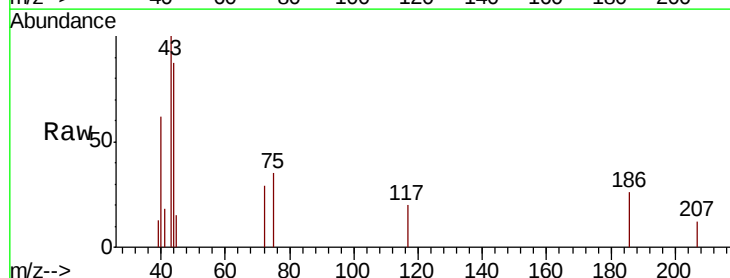
Tgt Ion: 43 Resp: 4156

Ion Ratio Lower Upper

43 100

61 0.0 11.8 17.6#

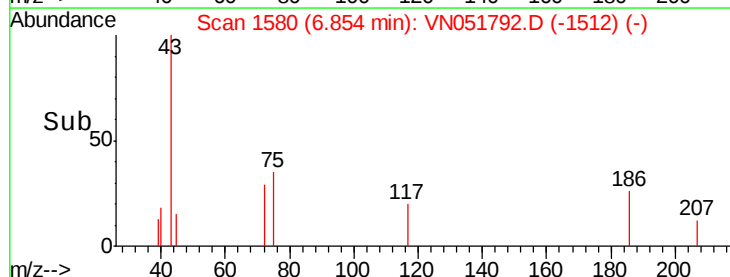
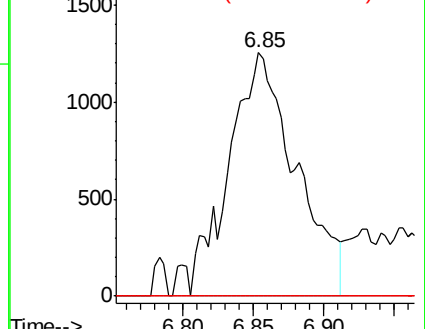
70 0.0 8.7 13.1#

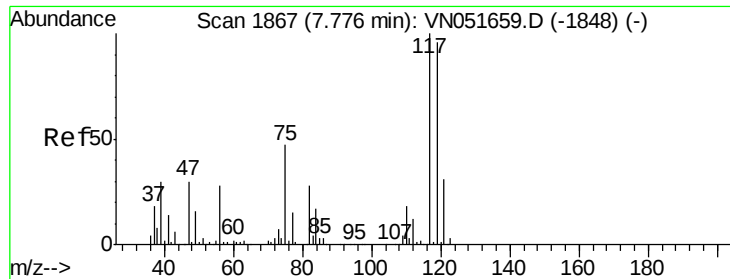


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 70.00 (69.70 to 70.70): VN0





#38

Carbon Tetrachloride

Concen: 5.095 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#03

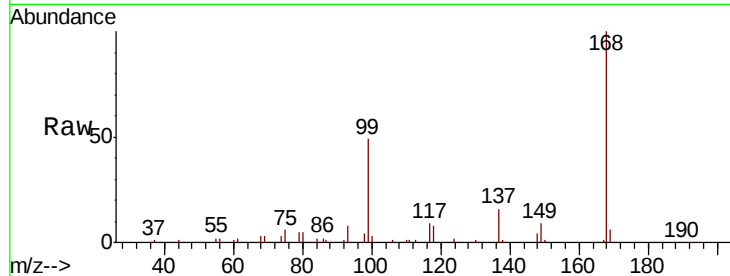
Tot Ion:117 Resp: 74650

Ion Ratio Lower Upper

117 100

119 4.9 77.0 115.6#

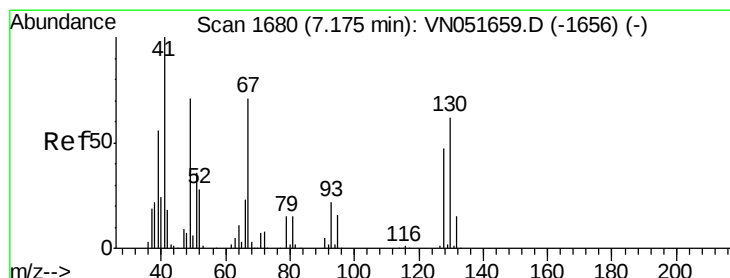
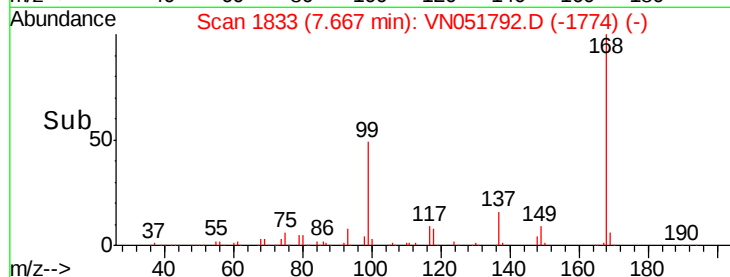
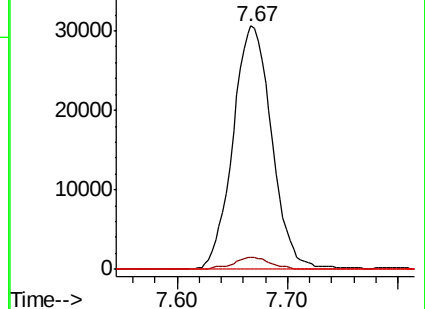
121 0.0 25.0 37.6#



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: Below Cal

RT: 7.17 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

Tgt Ion: 41 Resp: 235

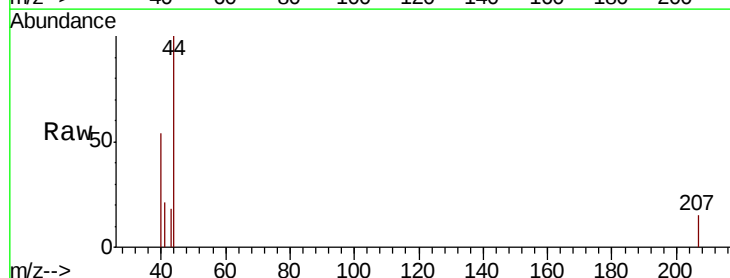
Ion Ratio Lower Upper

41 100

39 27.2 53.9 80.9#

67 0.0 78.1 117.1#

52 0.0 32.3 48.5#

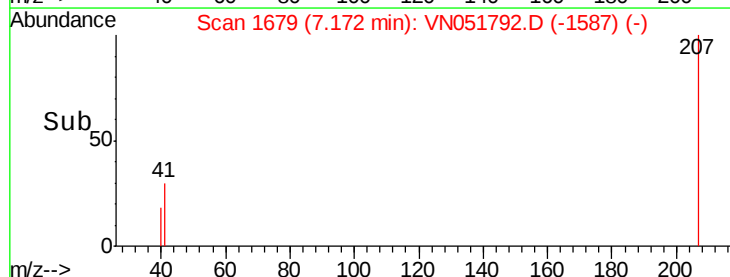
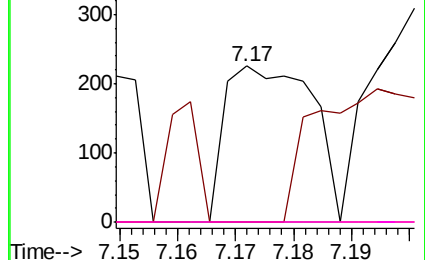


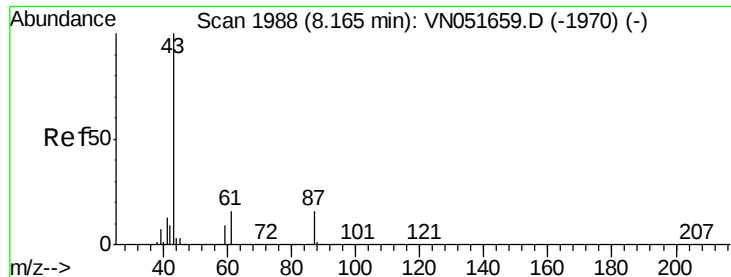
Abundance Ion 41.00 (40.70 to 41.70): V

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: 22.508 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#03

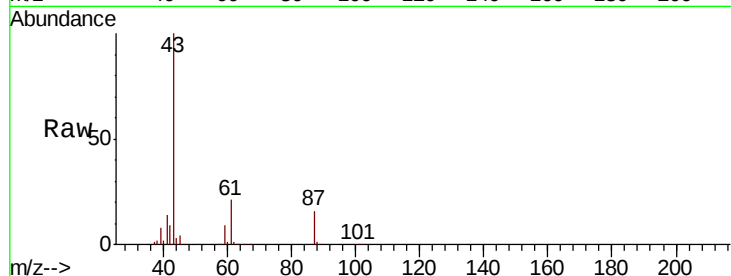
Tot Ion: 43 Resp: 298866

Ion Ratio Lower Upper

43 100

61 19.3 15.8 23.6

87 15.4 12.6 19.0

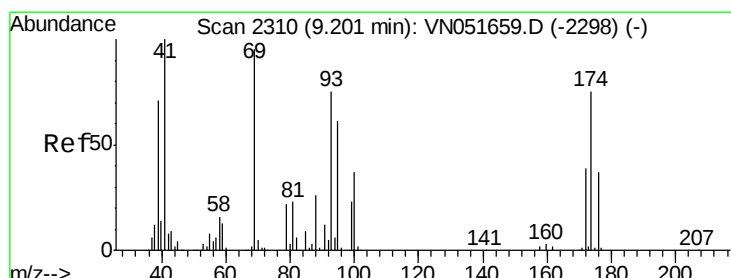
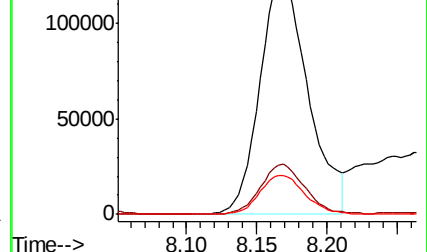
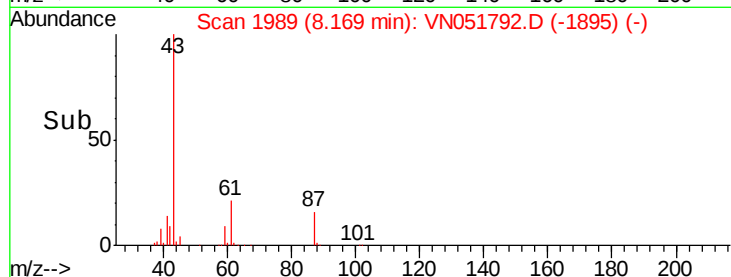


Abundance Ion 43.00 (42.70 to 43.70): VN051659.D (-1970) (-)

Ion 61.00 (60.70 to 61.70): VN051659.D (-1970) (-)

Ion 87.00 (86.70 to 87.70): VN051659.D (-1970) (-)

8.17



#48

Methyl methacrylate

Concen: 1.099 ug/l

RT: 9.18 min Scan# 2305

Delta R.T. -0.02 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

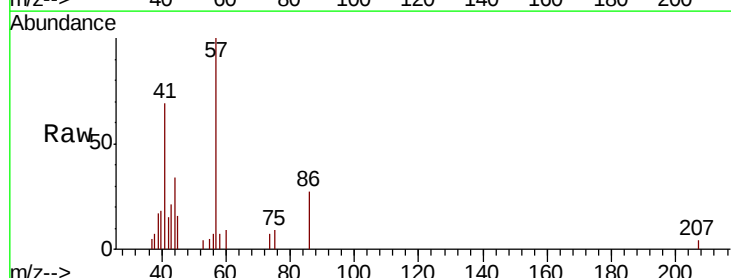
Tgt Ion: 41 Resp: 6670

Ion Ratio Lower Upper

41 100

69 0.0 78.6 118.0#

39 0.0 59.2 88.8#

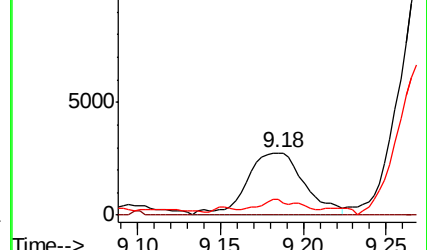
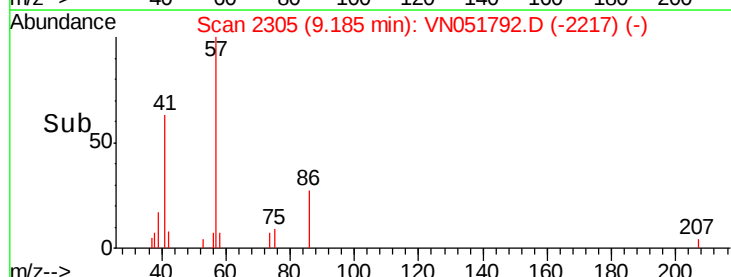


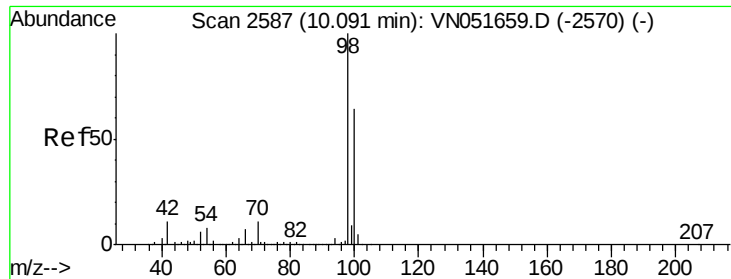
Abundance Ion 41.00 (40.70 to 41.70): VN051659.D (-2298) (-)

Ion 69.00 (68.70 to 69.70): VN051659.D (-2298) (-)

Ion 39.00 (38.70 to 39.70): VN051659.D (-2298) (-)

9.18





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

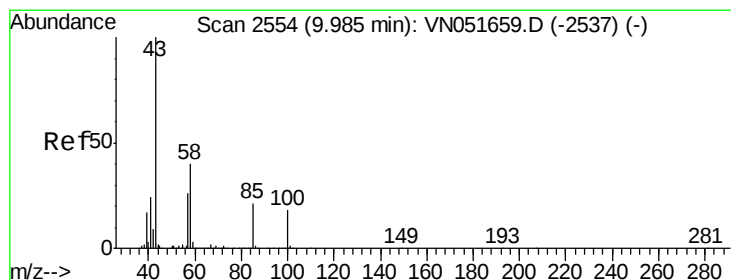
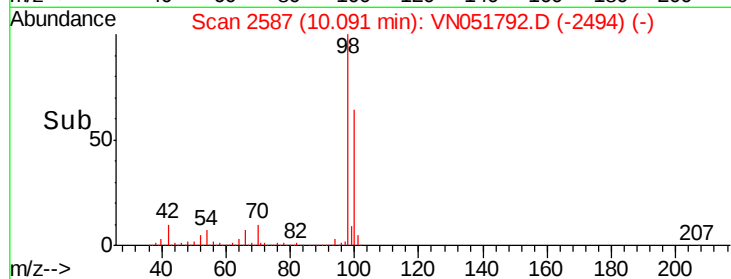
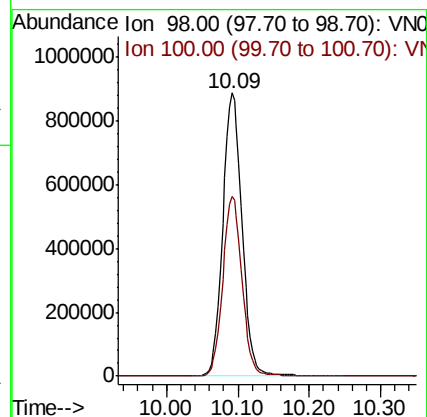
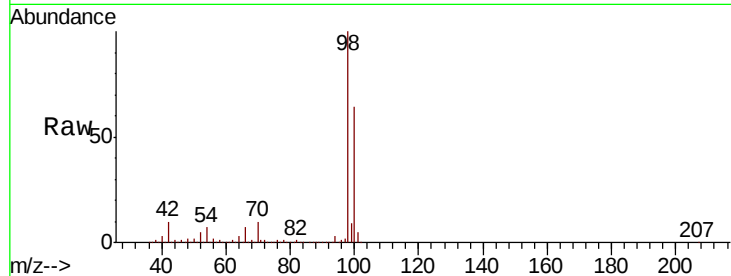
PB113684ZHE#03

Tot Ion: 98 Resp: 1655622

Ion Ratio Lower Upper

98 100

100 63.4 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.230 ug/l

RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN051792.D

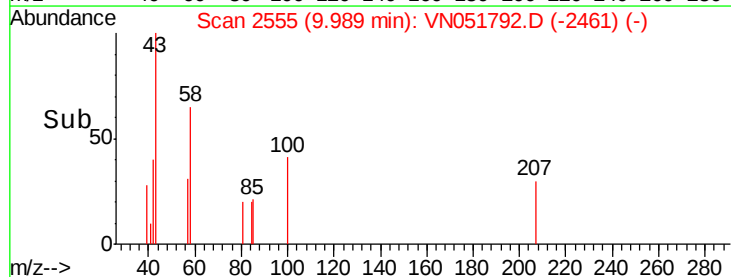
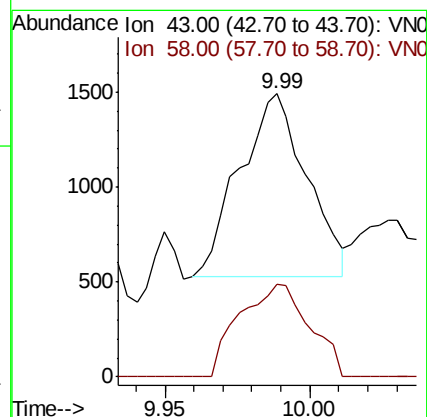
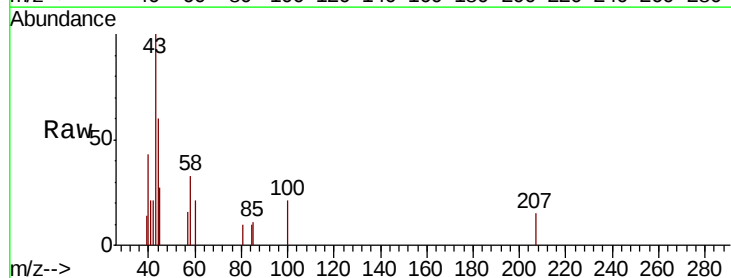
Acq: 10 Oct 2018 15:45

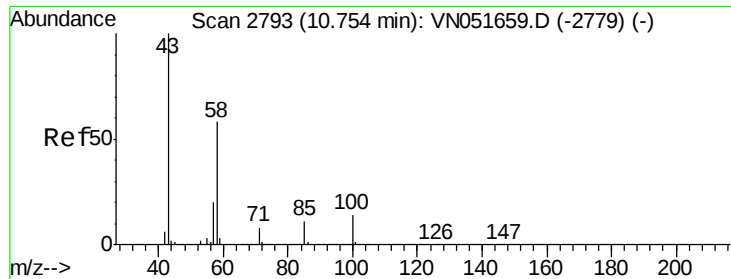
Tgt Ion: 43 Resp: 1546

Ion Ratio Lower Upper

43 100

58 52.7 32.2 48.2#

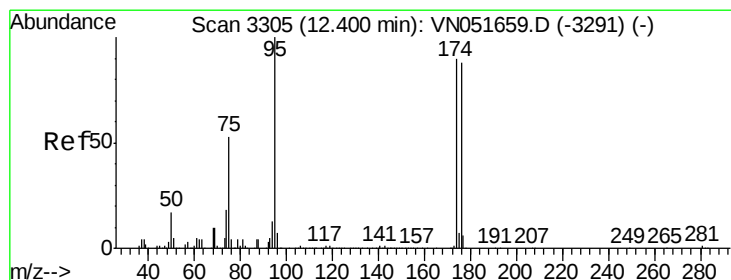
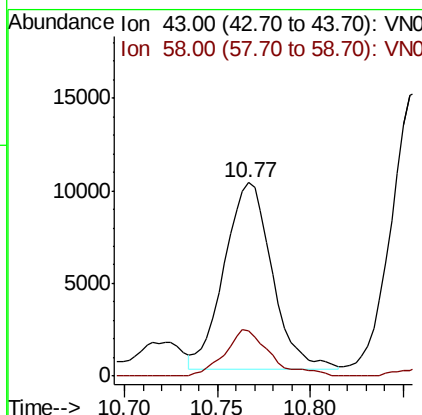
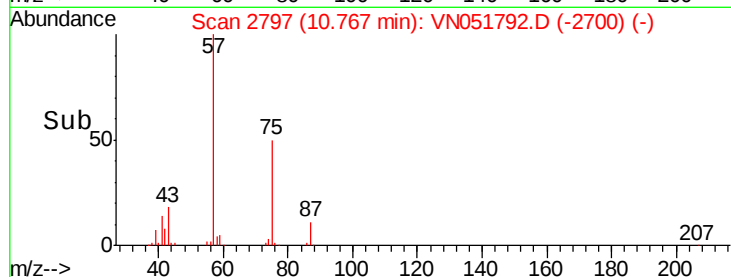
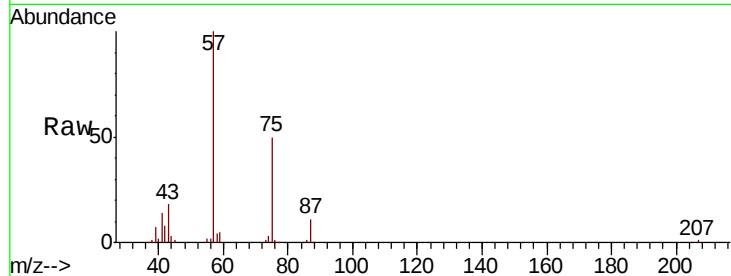




#59
2-Hexanone
Concen: 3.934 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051792.D
Acq: 10 Oct 2018 15:45

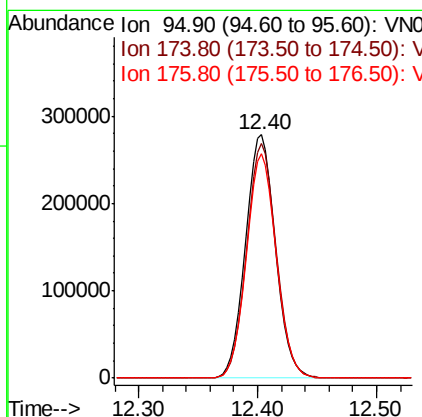
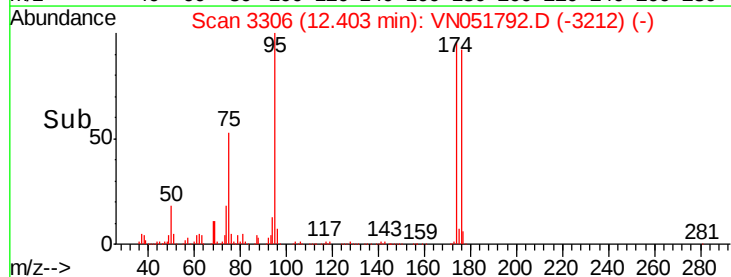
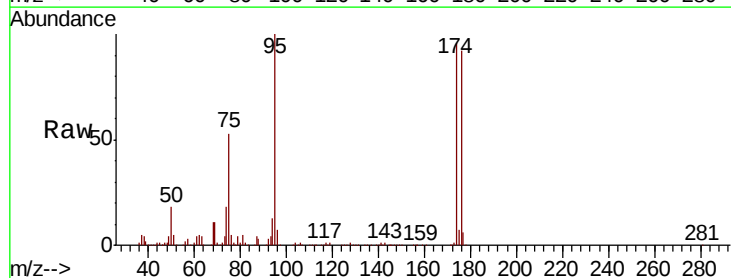
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#03

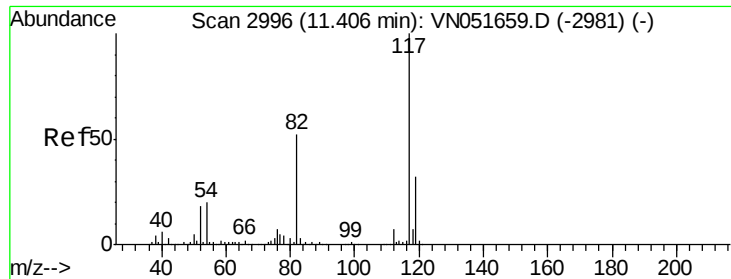
Tot Ion: 43 Resp: 17978
Ion Ratio Lower Upper
43 100
58 23.5 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051792.D
Acq: 10 Oct 2018 15:45

Tgt Ion: 95 Resp: 484447
Ion Ratio Lower Upper
95 100
174 95.4 0.0 182.8
176 92.0 0.0 176.4

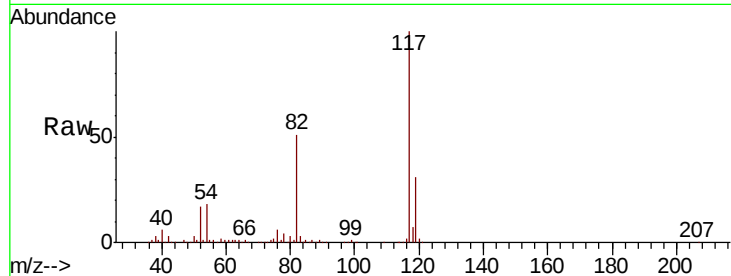




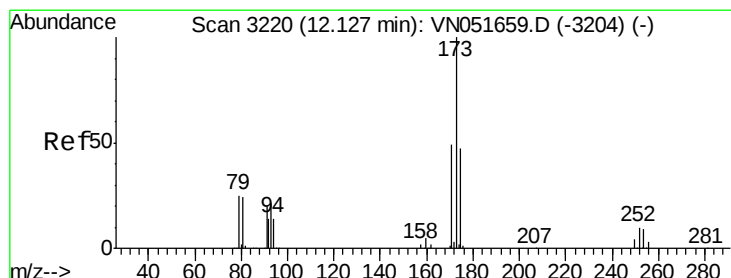
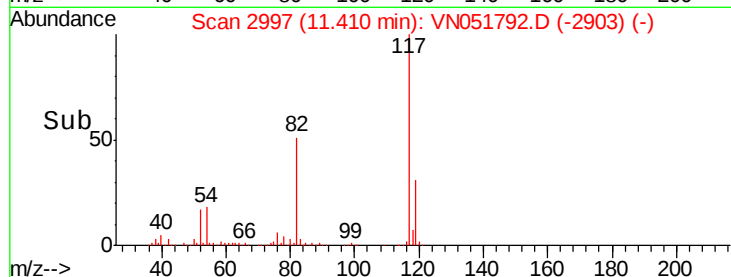
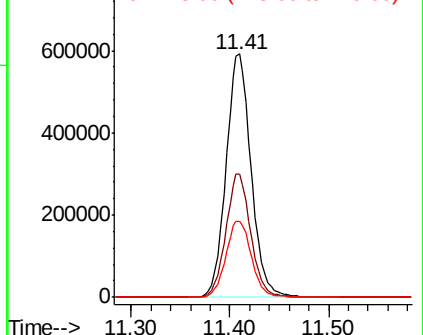
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051792.D
Acq: 10 Oct 2018 15:45

Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#03

Tot Ion:117 Resp: 1047999
Ion Ratio Lower Upper
117 100
82 50.8 41.3 61.9
119 31.4 25.9 38.9

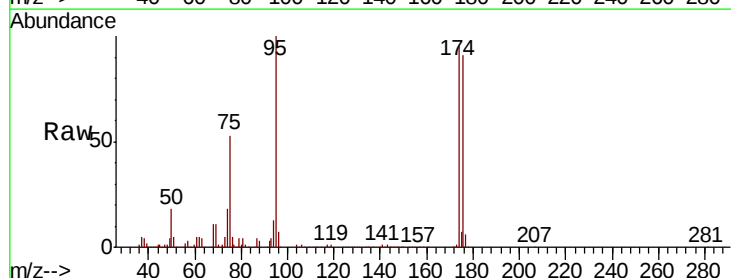


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

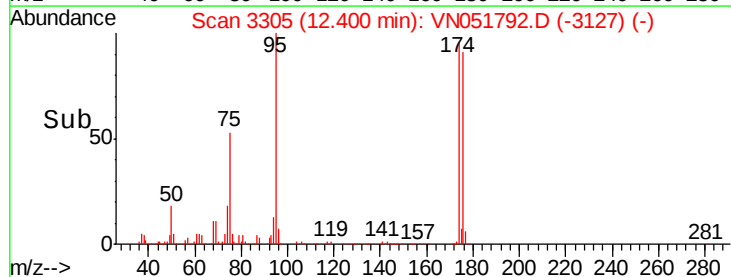
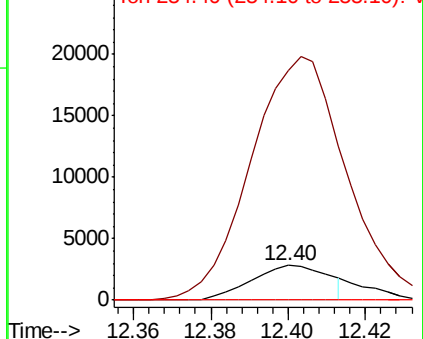


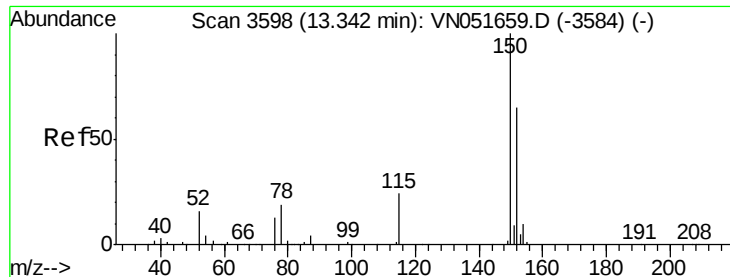
#71
Bromoform
Concen: 0.507 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051792.D
Acq: 10 Oct 2018 15:45

Tgt Ion:173 Resp: 3920
Ion Ratio Lower Upper
173 100
175 733.0 24.0 72.0#
254 0.0 0.1 0.1#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#03

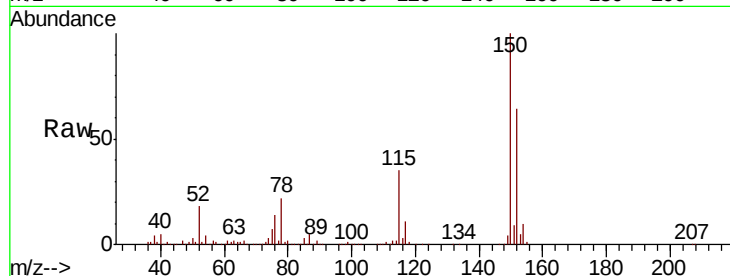
Tot Ion:152 Resp: 413447

Ion Ratio Lower Upper

152 100

115 54.9 28.6 85.8

150 155.2 0.0 352.4

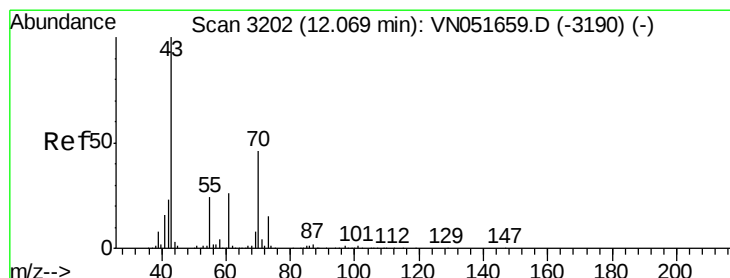
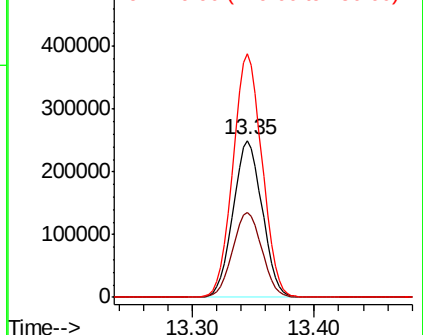
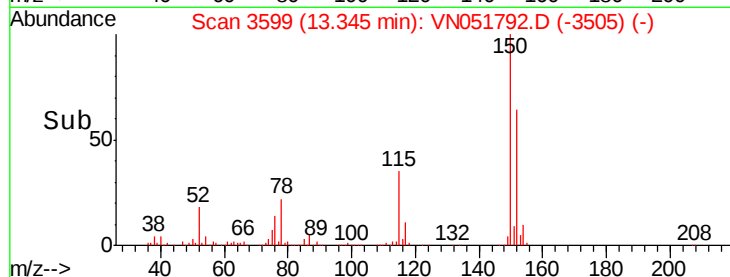


Abundance

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: 12.04 min Scan# 3194

Delta R.T. -0.02 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

Tgt Ion: 43 Resp: 1789

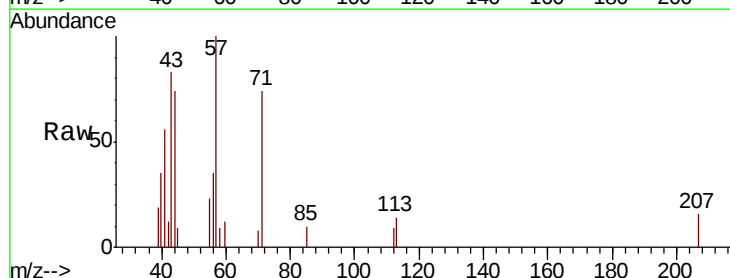
Ion Ratio Lower Upper

43 100

70 5.2 37.1 55.7#

55 29.9 19.1 28.7#

61 0.0 20.8 31.2#



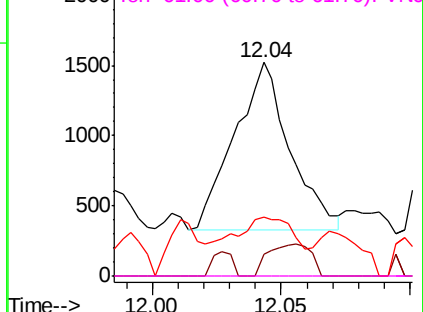
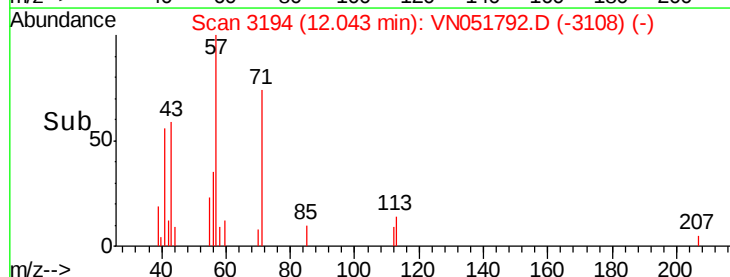
Abundance

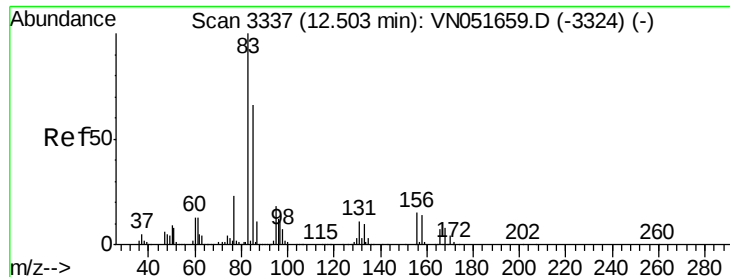
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#03

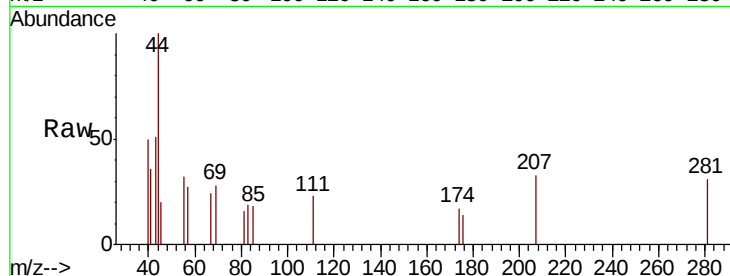
Tot Ion: 83 Resp: 81

Ion Ratio Lower Upper

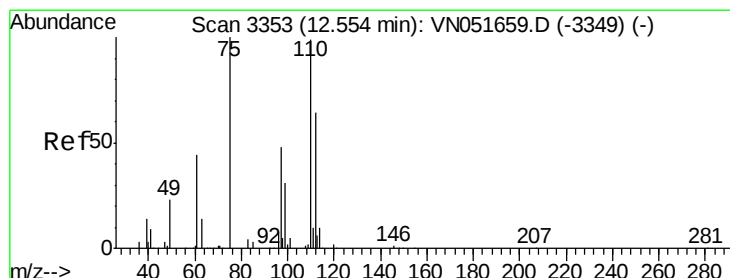
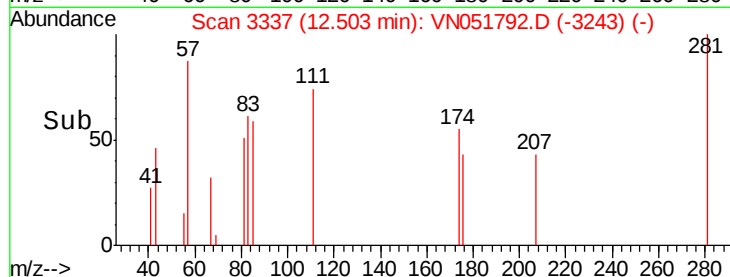
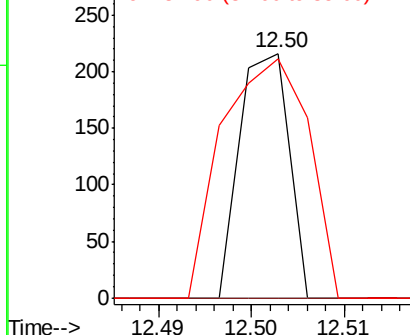
83 100

131 0.0 5.7 17.1#

85 169.1 33.0 98.9#



Abundance Ion 82.90 (82.60 to 83.60): VNO
Ion 130.80 (130.50 to 131.50): VNO
Ion 84.90 (84.60 to 85.60): VNO



#76

1,2,3-Trichloropropane

Concen: 48.304 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051792.D

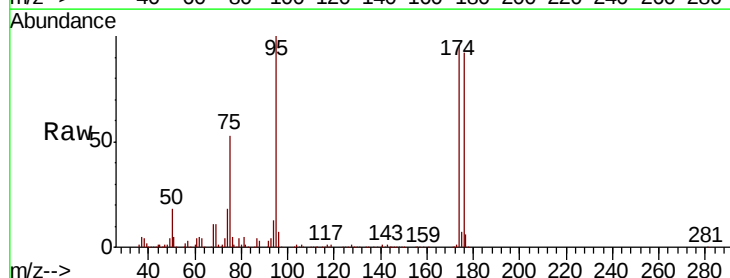
Acq: 10 Oct 2018 15:45

Tgt Ion: 75 Resp: 248863

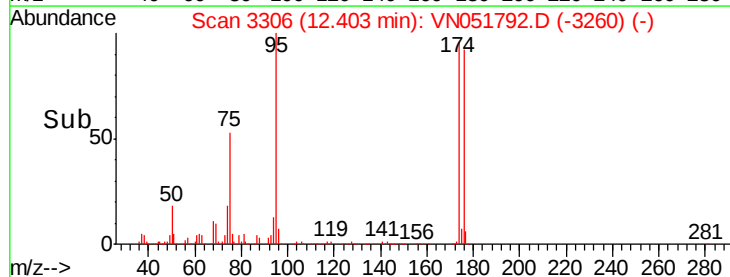
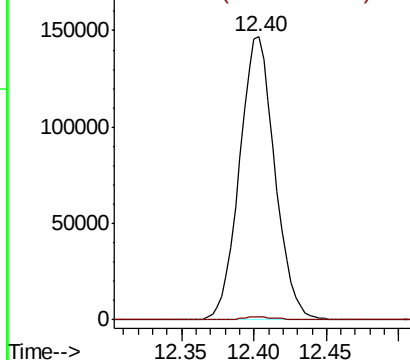
Ion Ratio Lower Upper

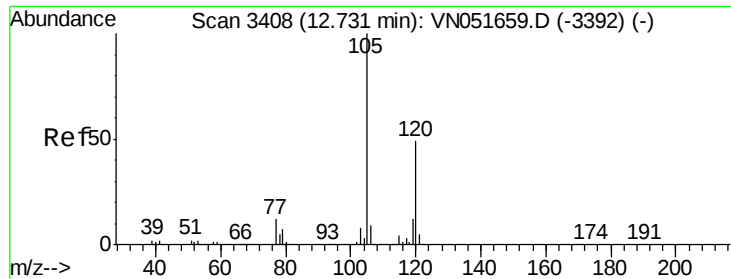
75 100

77 1.1 0.0 0.0#



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





#80

1,3,5-Trimethylbenzene

Concen: 0.261 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

Instrument :

MSVOA_N

ClientSampleId :

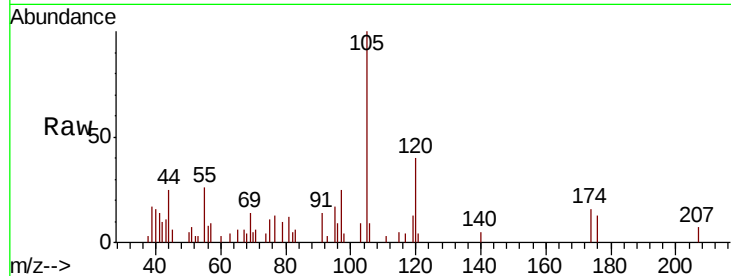
PB113684ZHE#03

Tot Ion:105 Resp: 7756

Ion Ratio Lower Upper

105 100

120 44.9 24.6 74.0



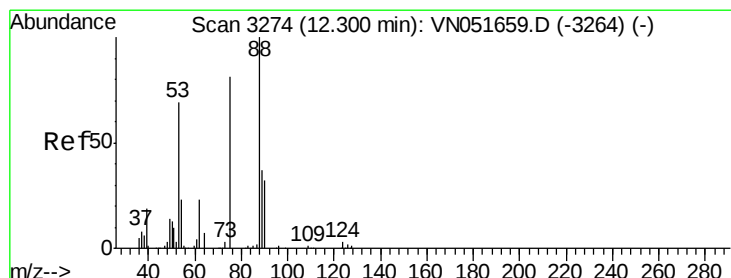
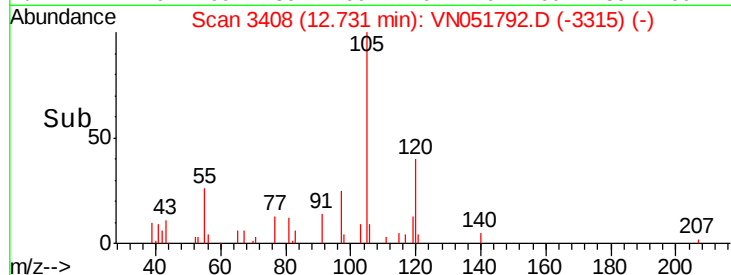
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

Time-->

12.70 12.75



#81

trans-1,4-Dichloro-2-butene

Concen: 110.645 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051792.D

Acq: 10 Oct 2018 15:45

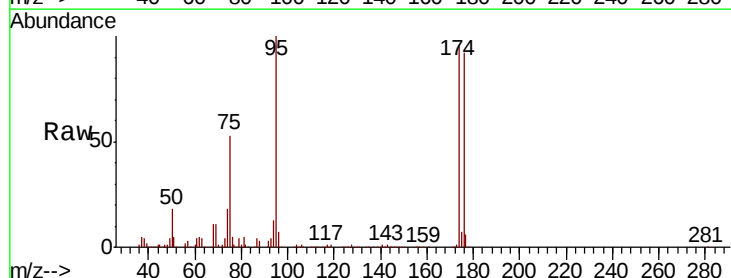
Tgt Ion: 75 Resp: 248863

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 39.4 59.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

12.40

Time-->

12.35 12.40 12.45

