

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101018\
 Data File : VN051799.D
 Acq On : 10 Oct 2018 18:38
 Operator : MD\SY
 Sample : PB113684ZHE#10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113684ZHE#10

Quant Time: Oct 11 02:00:04 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

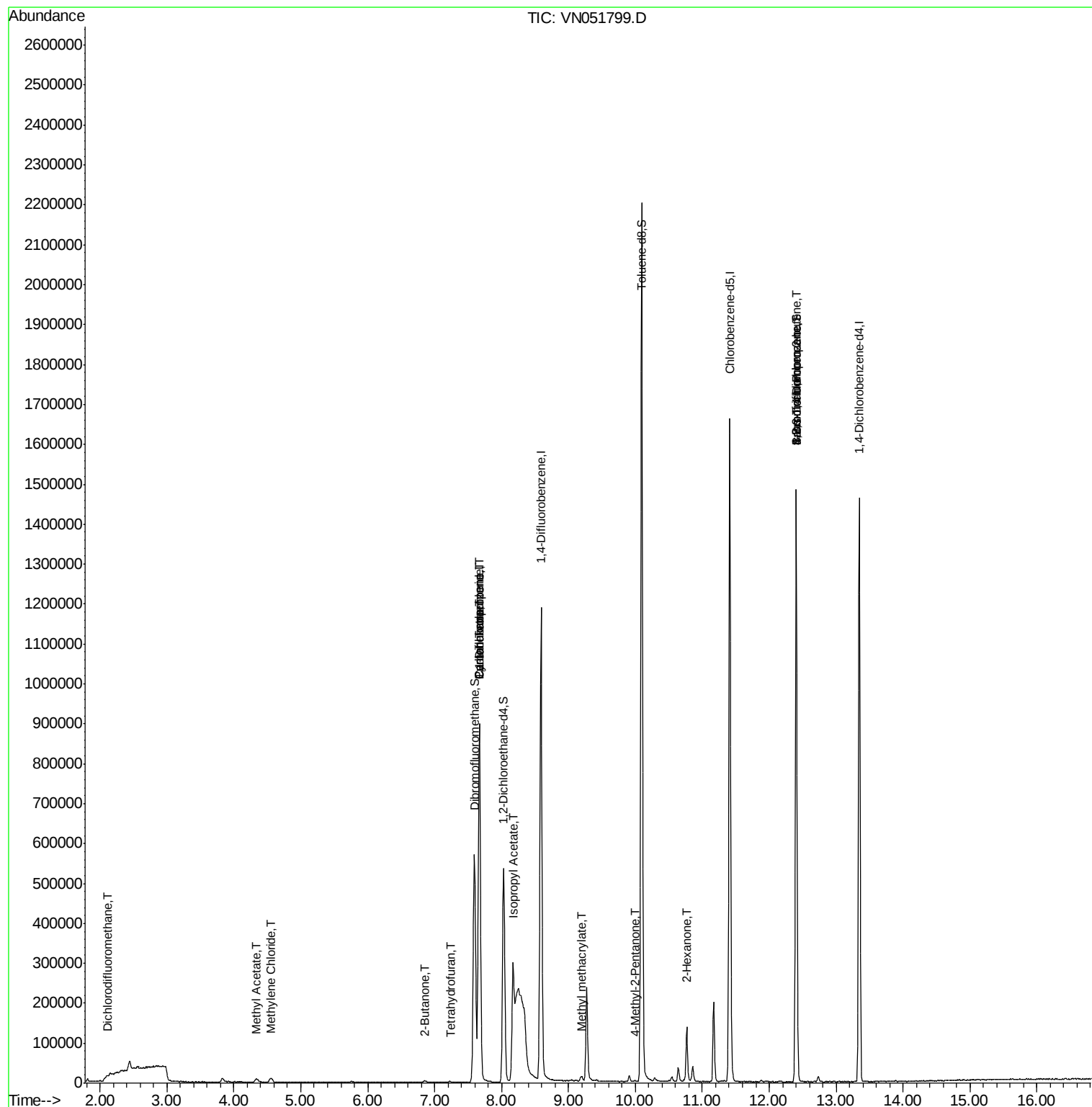
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	797019	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1145865	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1018672	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	411310	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	467806	44.43	ug/l	0.00
Spiked Amount 50.000			Recovery	=	88.86%	
35) Dibromofluoromethane	7.59	113	419915	47.40	ug/l	0.00
Spiked Amount 50.000			Recovery	=	94.80%	
50) Toluene-d8	10.09	98	1618325	48.97	ug/l	0.00
Spiked Amount 50.000			Recovery	=	97.94%	
62) 4-Bromofluorobenzene	12.40	95	483775	41.35	ug/l	0.00
Spiked Amount 50.000			Recovery	=	82.70%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.10	85	115	1.160	ug/l #	42
7) Trichlorofluoromethane	2.87	101	61	Below Cal	#	18
13) Acrolein	3.60	56	113	Below Cal	#	44
16) Acetone	3.83	43	16175	Below Cal		96
18) Methyl Acetate	4.34	43	16538	2.846	ug/l #	79
20) Methylene Chloride	4.55	84	7897	0.912	ug/l	96
25) 2-Butanone	6.85	43	3175	1.044	ug/l #	87
29) Tetrahydrofuran	7.23	42	1604	0.860	ug/l #	73
31) Cyclohexane	7.66	56	13781	0.964	ug/l #	22
36) 1,1-Dichloropropene	7.67	75	50753	4.237	ug/l #	48
38) Carbon Tetrachloride	7.67	117	69578	4.841	ug/l #	15
41) Methacrylonitrile	7.16	41	63	Below Cal	#	28
43) Isopropyl Acetate	8.17	43	358297	27.511	ug/l	94
48) Methyl methacrylate	9.18	41	6034	1.014	ug/l #	14
51) 4-Methyl-2-Pentanone	9.99	43	2046	0.310	ug/l #	66
59) 2-Hexanone	10.77	43	19335	4.314	ug/l #	55
71) Bromoform	12.40	173	3763	0.501	ug/l #	1
74) N-amyl acetate	12.04	43	144	Below Cal	#	24
75) 1,1,2,2-Tetrachloroethane	12.40	83	591	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	246214	48.014	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	246214	110.036	ug/l #	14

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

Instrument :

MSVOA_N

ClientSampleId :

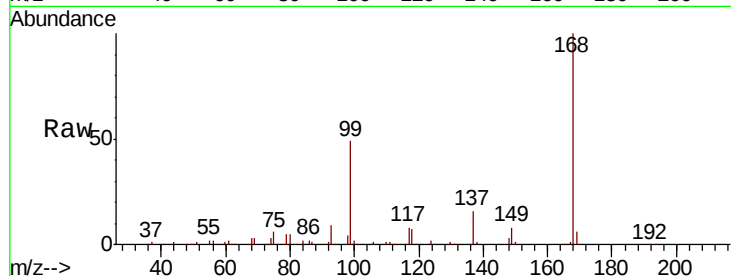
PB113684ZHE#10

Tot Ion:168 Resp: 797019

Ion Ratio Lower Upper

168 100

99 48.6 40.4 60.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

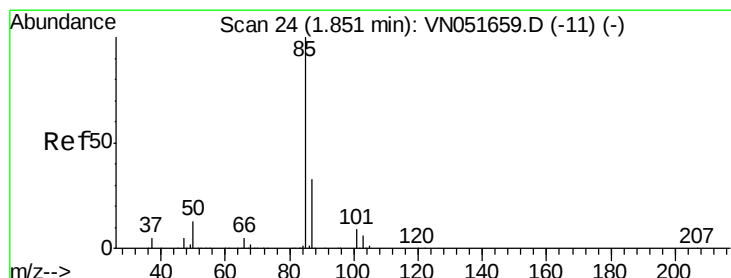
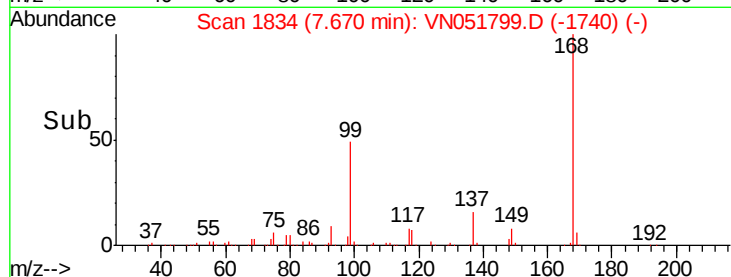
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 1.160 ug/l

RT: 2.10 min Scan# 101

Delta R.T. 0.25 min

Lab File: VN051799.D

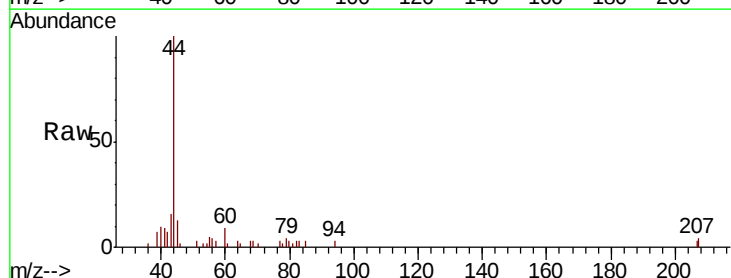
Acq: 10 Oct 2018 18:38

Tgt Ion: 85 Resp: 115

Ion Ratio Lower Upper

85 100

87 0.0 16.4 49.4#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

2.10

250

200

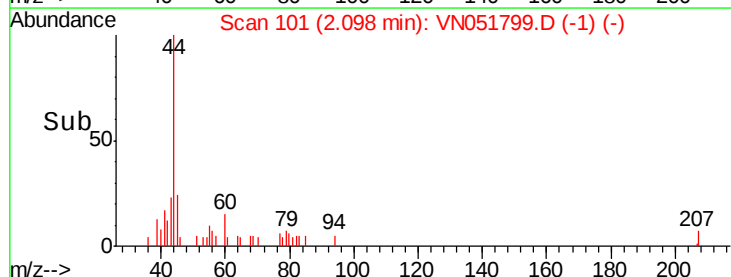
150

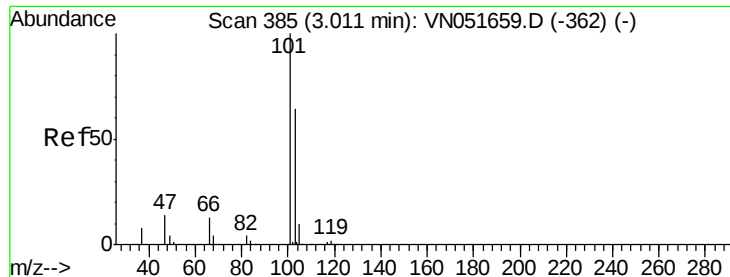
100

50

0

Time-->





#7

Trichlorofluoromethane

Concen: Below Cal

RT: 2.87 min Scan# 342

Delta R.T. -0.14 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

Instrument :

MSVOA_N

ClientSampleId :

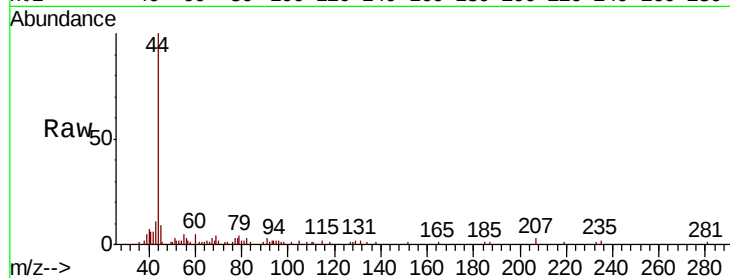
PB113684ZHE#10

Tot Ion:101 Resp: 61

Ion Ratio Lower Upper

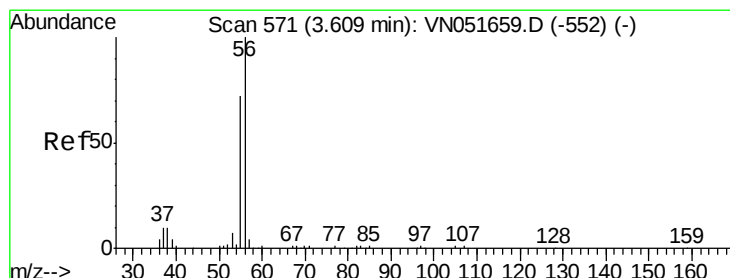
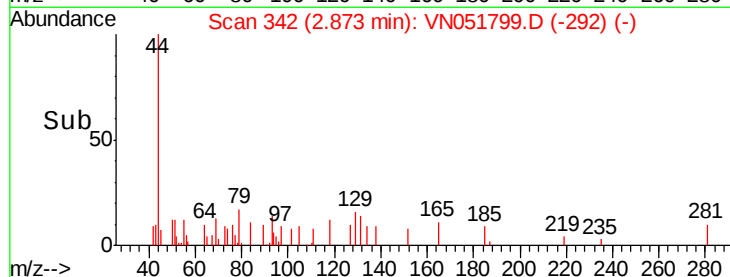
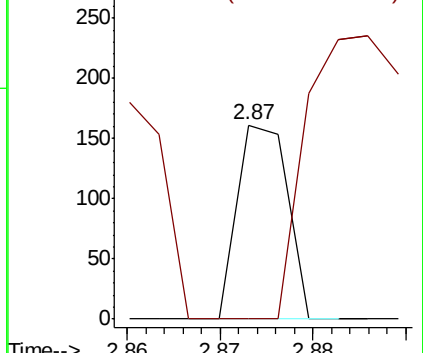
101 100

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



#13

Acrolein

Concen: Below Cal

RT: 3.60 min Scan# 569

Delta R.T. -0.01 min

Lab File: VN051799.D

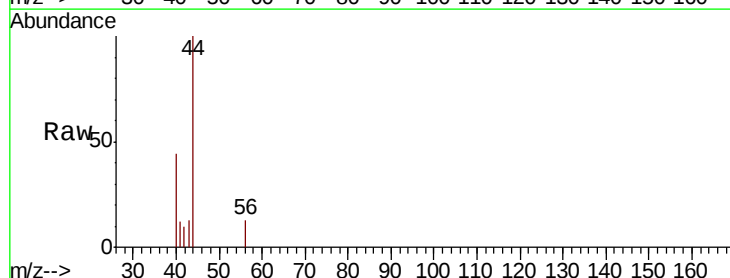
Acq: 10 Oct 2018 18:38

Tgt Ion: 56 Resp: 113

Ion Ratio Lower Upper

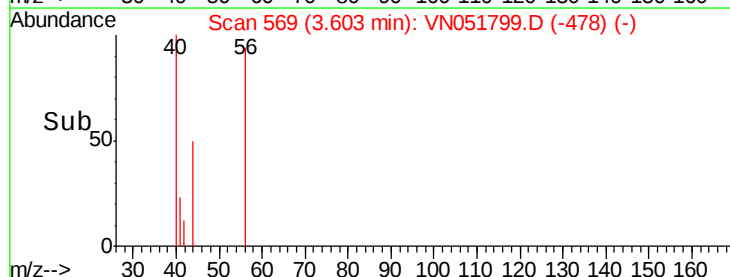
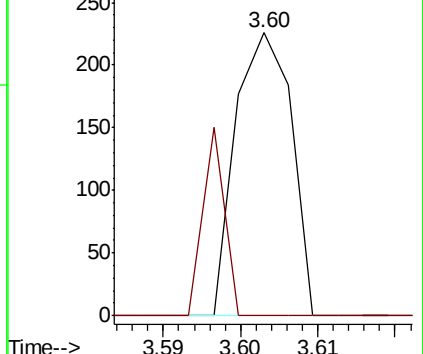
56 100

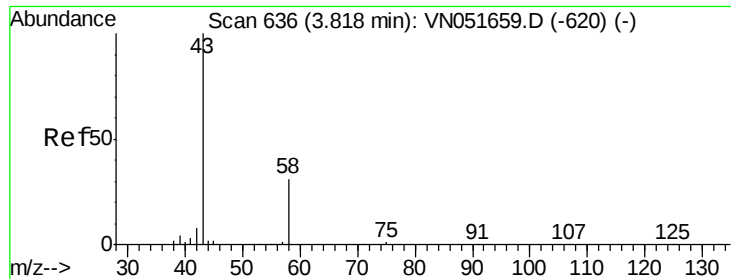
55 25.7 57.5 86.3#



Abundance Ion 56.00 (55.70 to 56.70): V

Ion 55.00 (54.70 to 55.70): V





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

Instrument :

MSVOA_N

ClientSampleId :

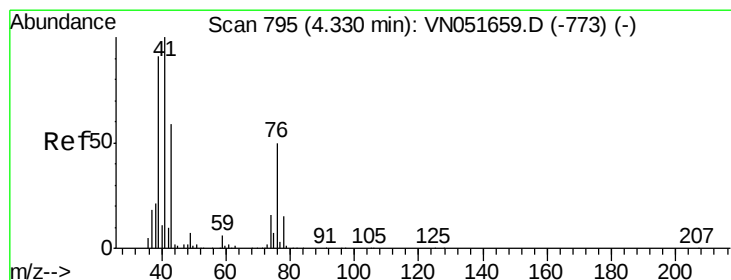
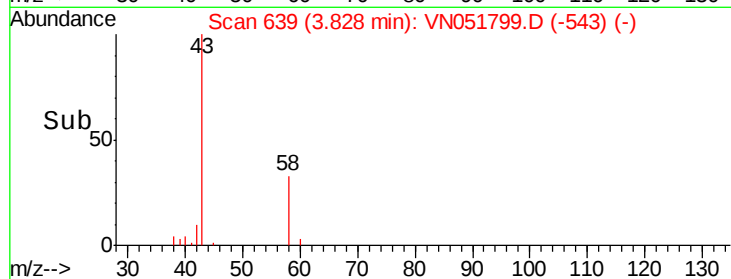
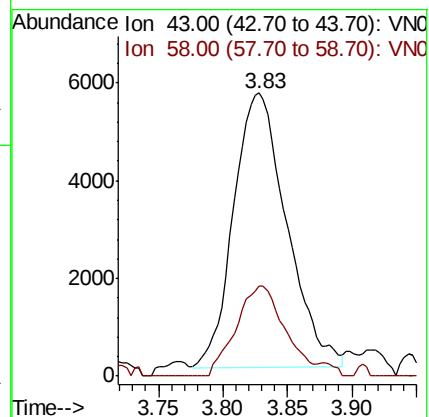
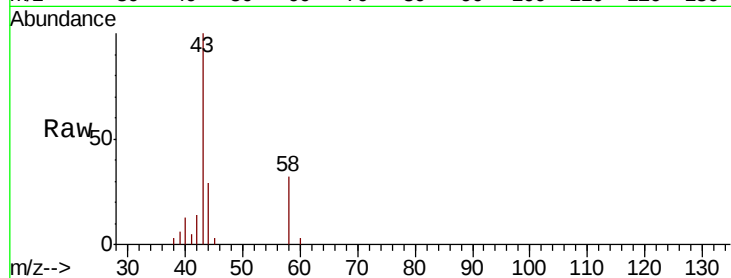
PB113684ZHE#10

Tot Ion: 43 Resp: 16175

Ion Ratio Lower Upper

43 100

58 32.8 24.3 36.5



#18

Methyl Acetate

Concen: 2.846 ug/l

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051799.D

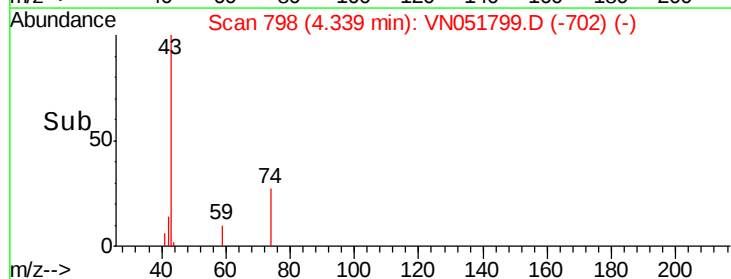
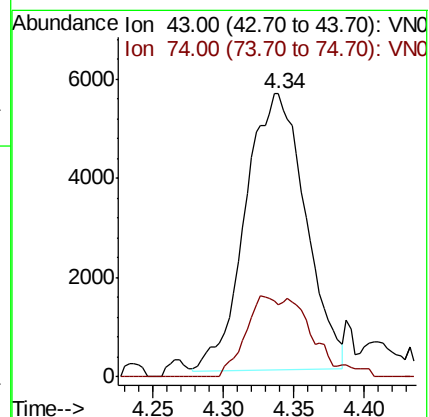
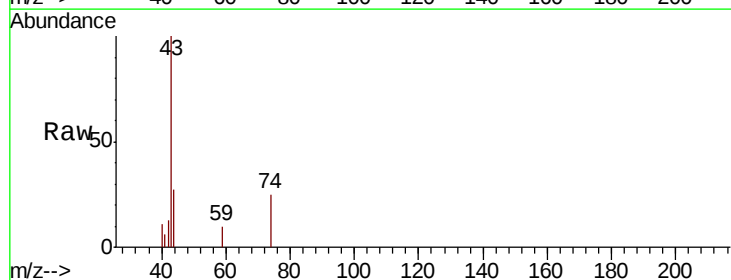
Acq: 10 Oct 2018 18:38

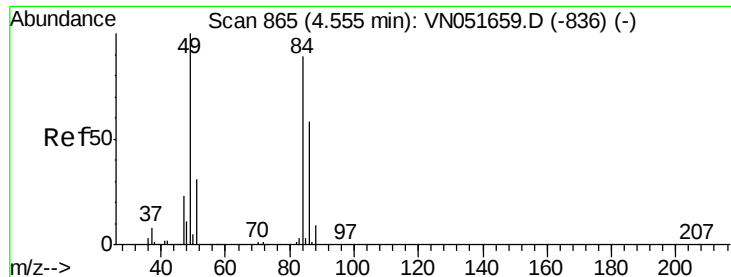
Tgt Ion: 43 Resp: 16538

Ion Ratio Lower Upper

43 100

74 15.8 21.5 32.3#

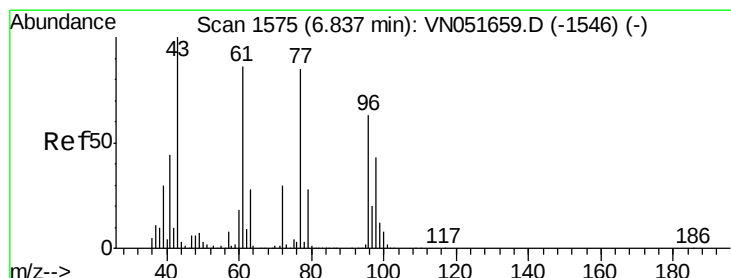
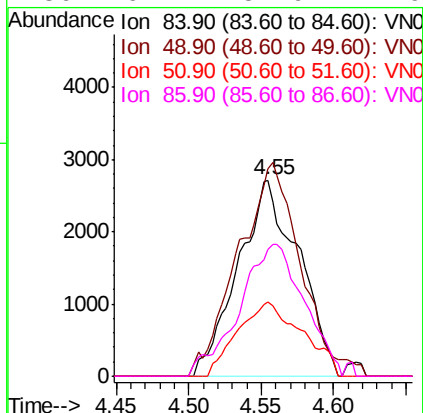
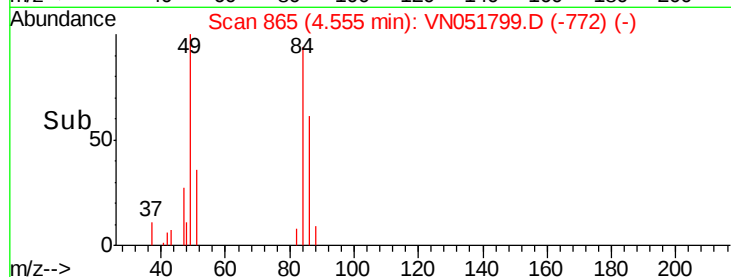
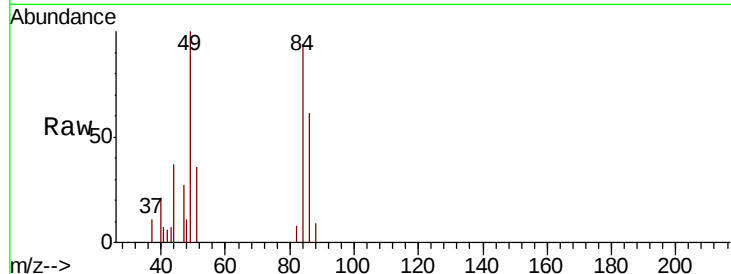




#20
Methvlene Chloride
Concen: 0.912 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051799.D
Acq: 10 Oct 2018 18:38

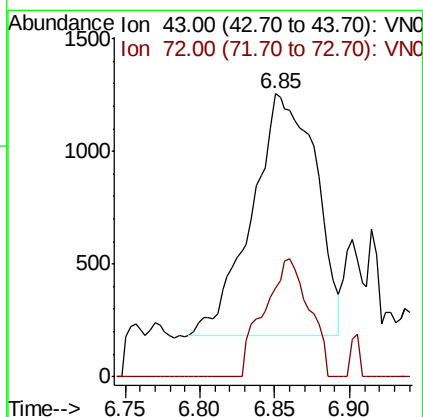
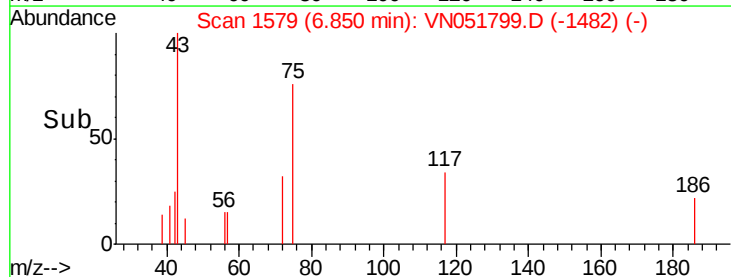
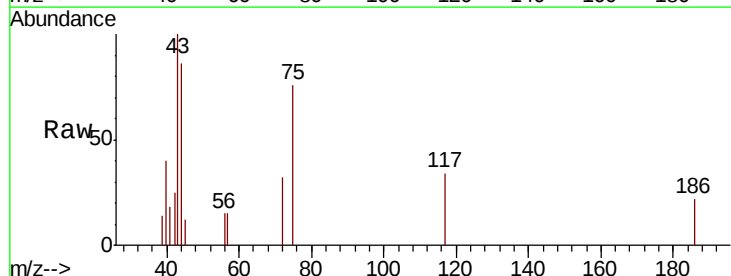
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#10

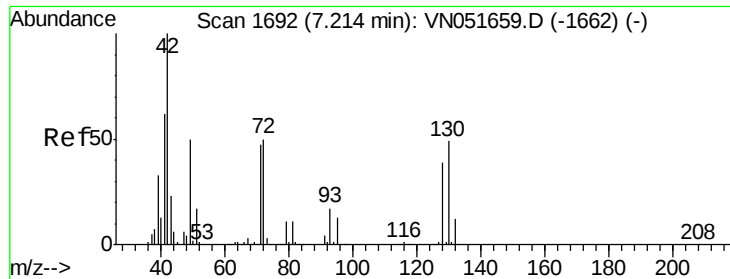
Tot Ion:	84	Resp:	7897
Ion	Ratio	Lower	Upper
84	100		
49	105.9	89.5	134.3
51	38.0	27.4	41.0
86	64.7	51.9	77.9



#25
2-Butanone
Concen: 1.044 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051799.D
Acq: 10 Oct 2018 18:38

Tgt Ion:	43	Resp:	3175
Ion	Ratio	Lower	Upper
43	100		
72	37.0	24.2	36.2#





#29

Tetrahydrofuran

Concen: 0.860 ug/l

RT: 7.23 min Scan# 1698

Delta R.T. 0.02 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#10

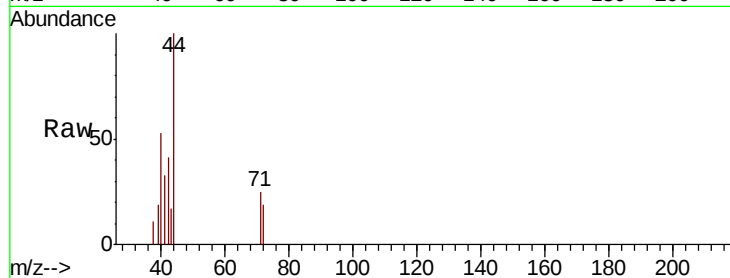
Tot Ion: 42 Resp: 1604

Ion Ratio Lower Upper

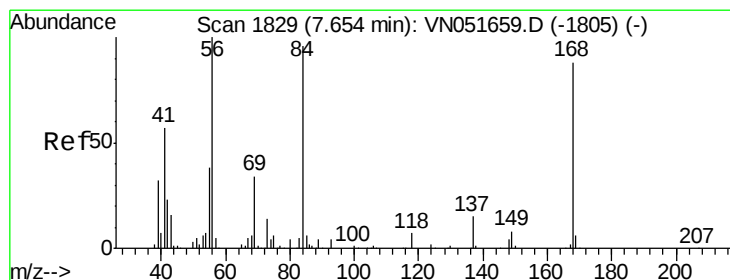
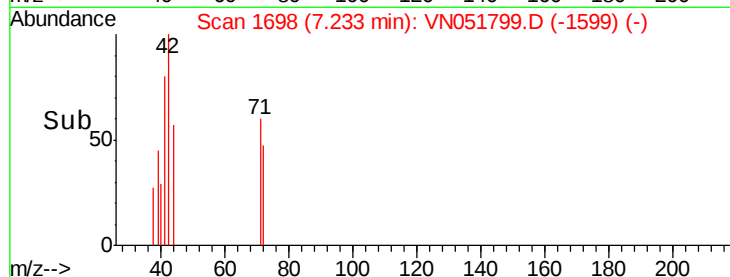
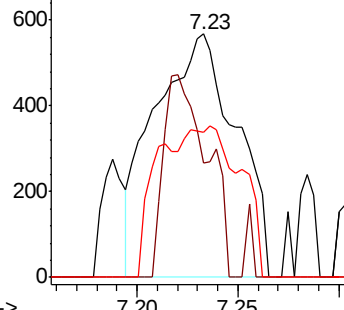
42 100

72 44.6 40.1 60.1

71 16.3 38.0 57.0#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: 0.964 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

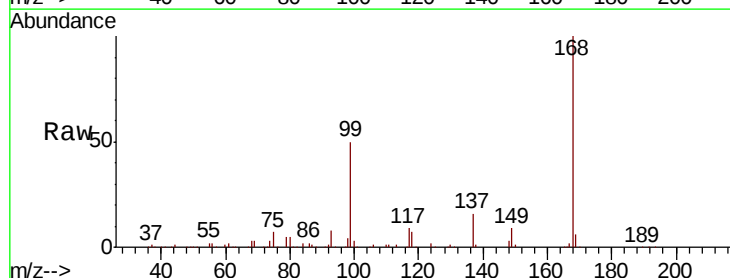
Tgt Ion: 56 Resp: 13781

Ion Ratio Lower Upper

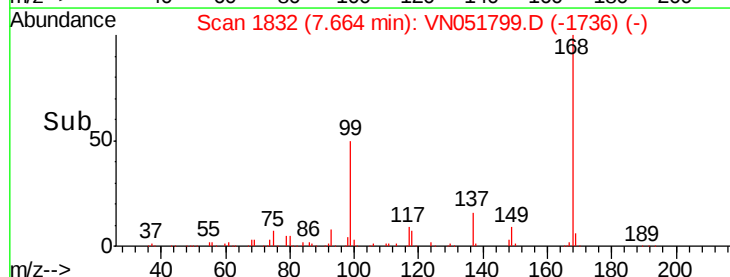
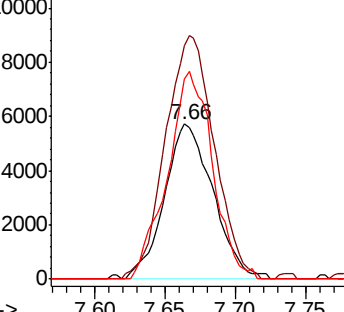
56 100

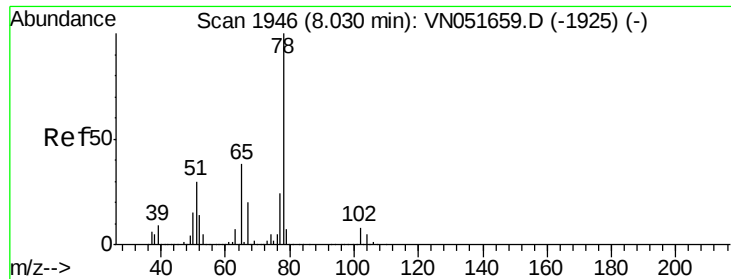
69 150.3 27.5 41.3#

84 129.1 76.7 115.1#



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

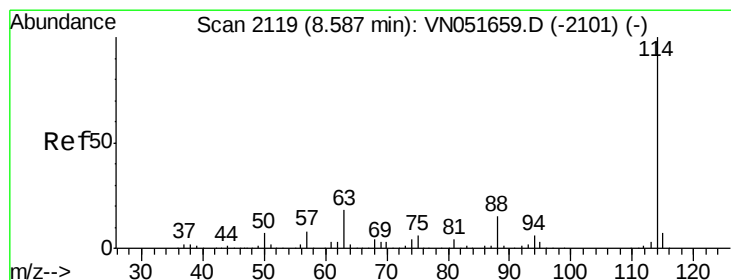
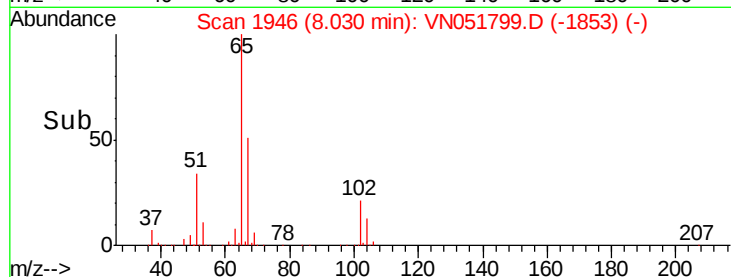
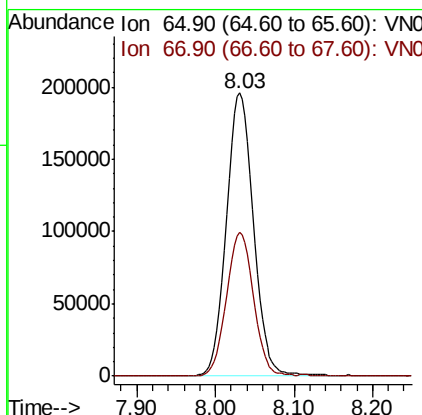
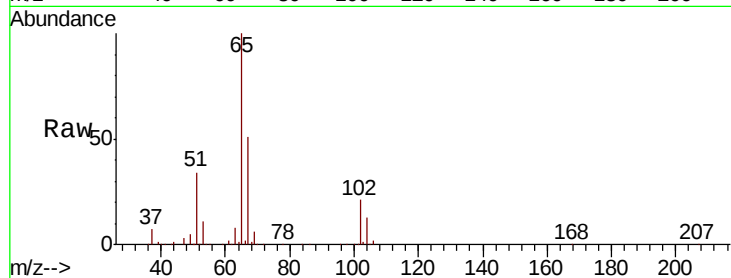




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051799.D
 Acq: 10 Oct 2018 18:38

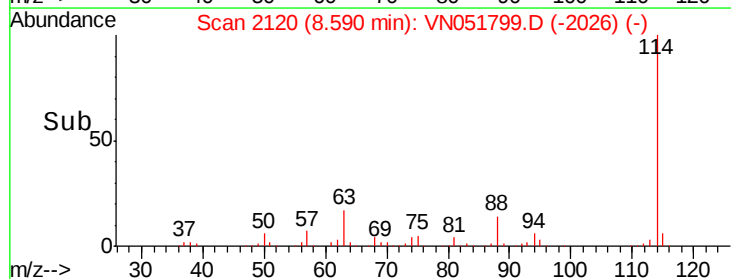
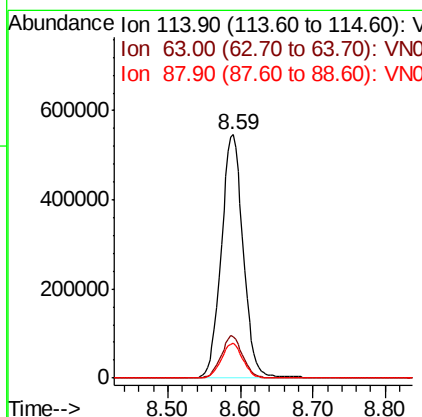
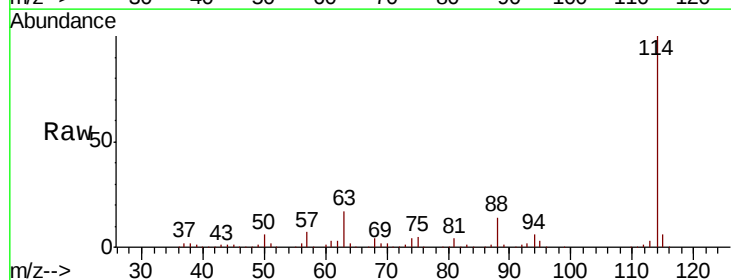
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 PB113684ZHE#10

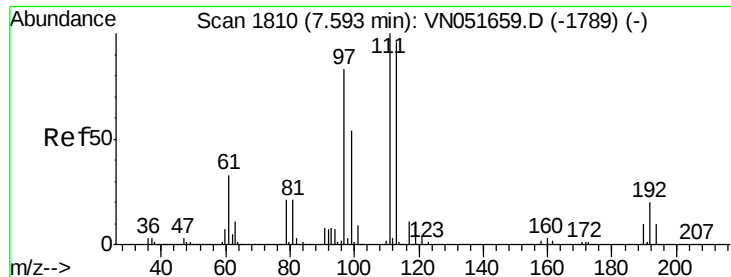
Tot Ion: 65 Resp: 467806
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 103.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051799.D
 Acq: 10 Oct 2018 18:38

Tgt Ion: 114 Resp: 1145865
 Ion Ratio Lower Upper
 114 100
 63 17.3 0.0 36.2
 88 14.1 0.0 30.2

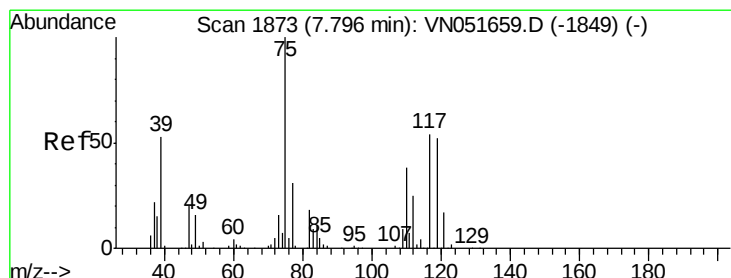
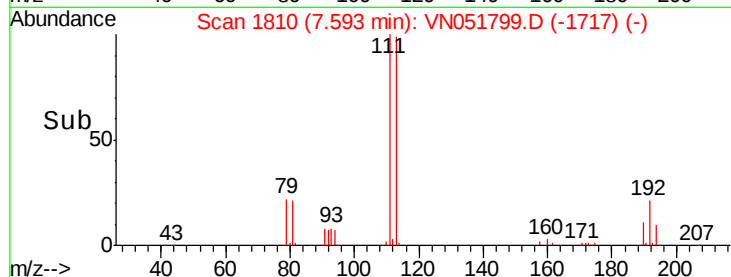
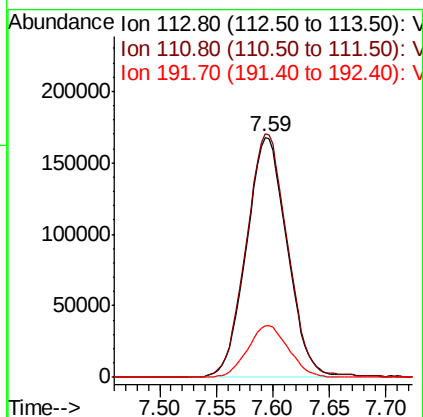
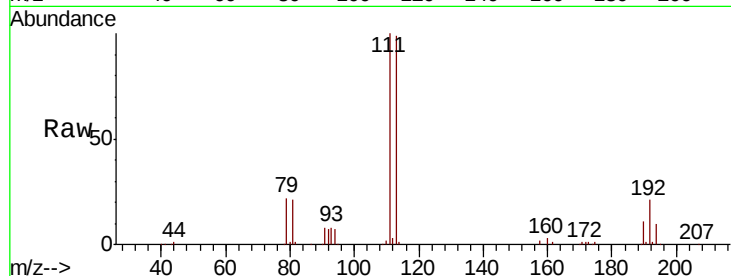




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051799.D
 Acq: 10 Oct 2018 18:38

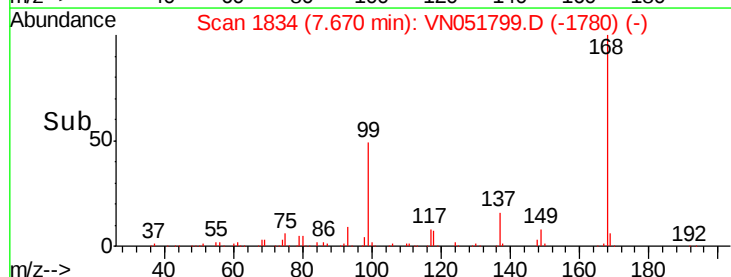
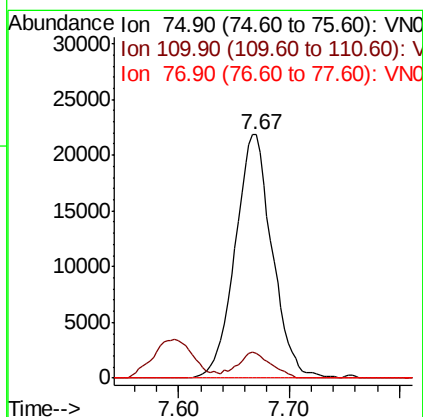
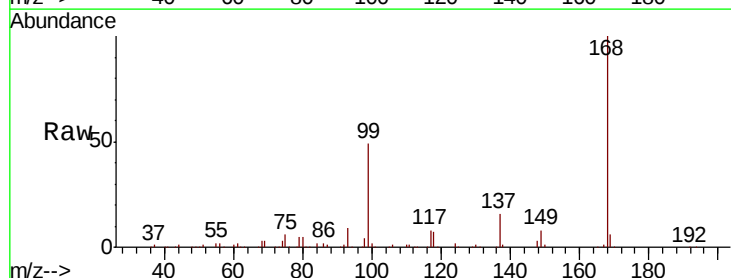
Instrument :
 MSVOA_N
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 PB113684ZHE#10

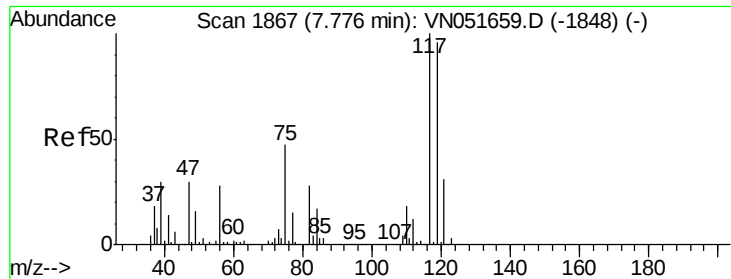
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	81.8	122.8
192	21.6	16.5	24.7



#36
 1,1-Dichloropropene
 Concen: 4.237 ug/l
 RT: 7.67 min Scan# 1834
 Delta R.T. -0.13 min
 Lab File: VN051799.D
 Acq: 10 Oct 2018 18:38

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	19.3	57.8#
77	0.0	24.7	37.1#





#38

Carbon Tetrachloride

Concen: 4.841 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#10

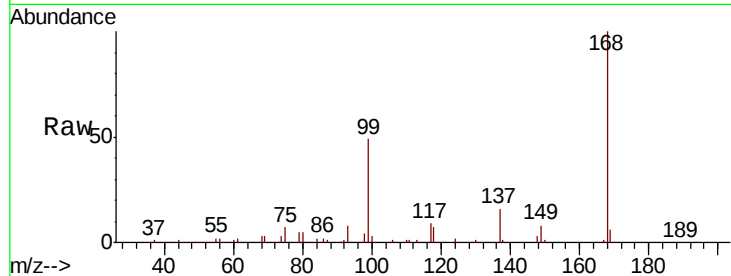
Tot Ion:117 Resp: 69578

Ion Ratio Lower Upper

117 100

119 4.3 77.0 115.6#

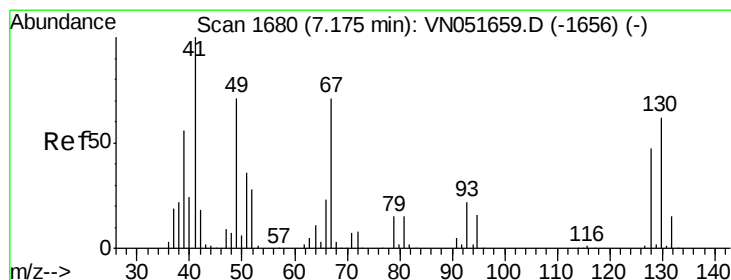
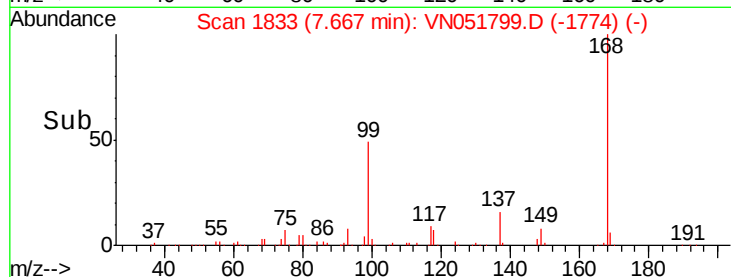
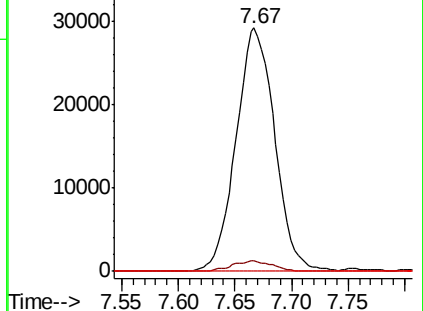
121 0.0 25.0 37.6#



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: 7.16 min Scan# 1675

Delta R.T. -0.02 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

Tgt Ion: 41 Resp: 63

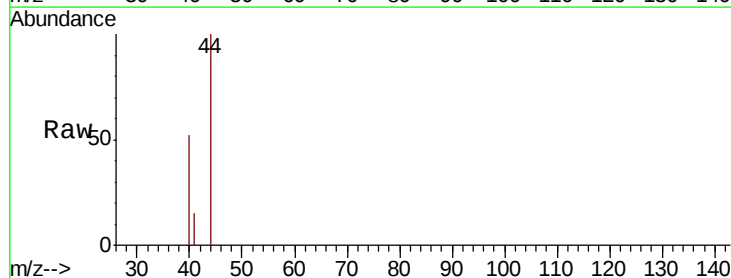
Ion Ratio Lower Upper

41 100

39 0.0 53.9 80.9#

67 163.5 78.1 117.1#

52 0.0 32.3 48.5#

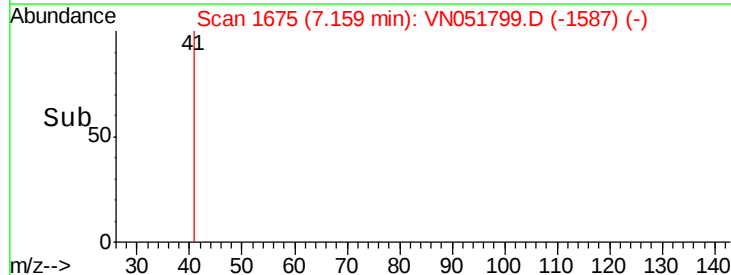
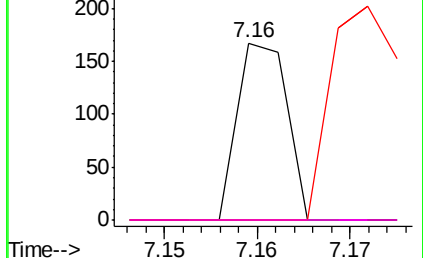


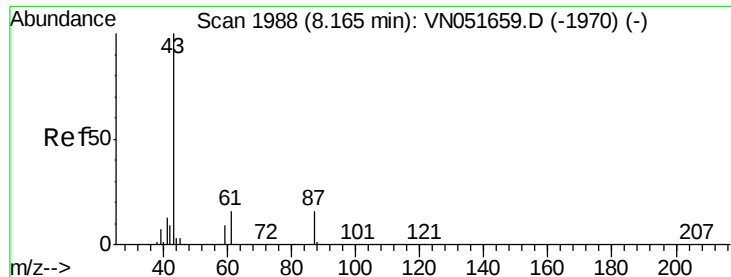
Abundance Ion 41.00 (40.70 to 41.70): V

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: 27.511 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#10

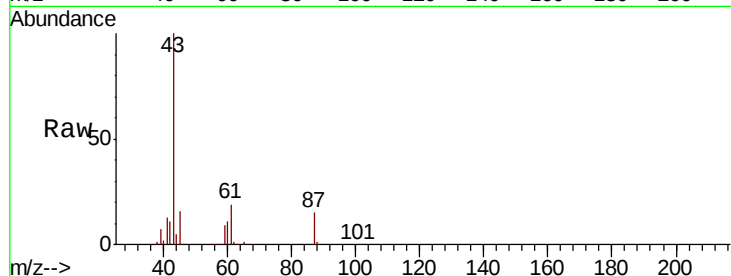
Tot Ion: 43 Resp: 358297

Ion Ratio Lower Upper

43 100

61 17.0 15.8 23.6

87 13.4 12.6 19.0

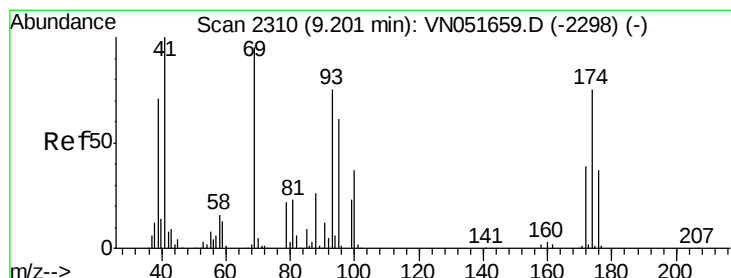
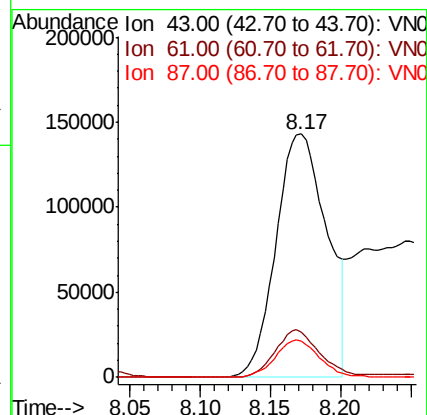
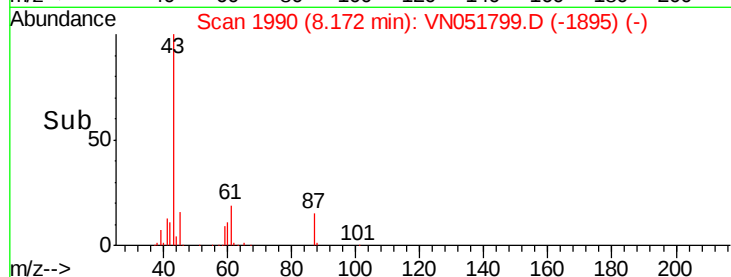


Abundance Ion 43.00 (42.70 to 43.70): VN051659.D (-1970) (-)

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

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

Time-->



#48

Methyl methacrylate

Concen: 1.014 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

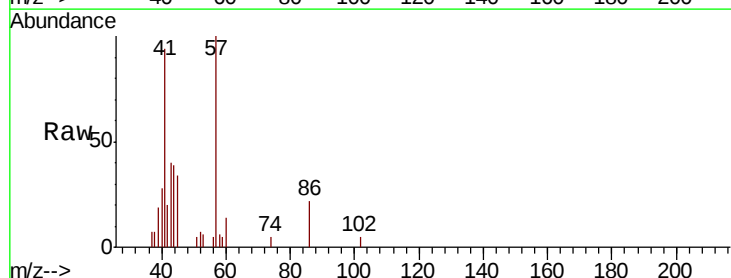
Tgt Ion: 41 Resp: 6034

Ion Ratio Lower Upper

41 100

69 0.0 78.6 118.0#

39 16.9 59.2 88.8#

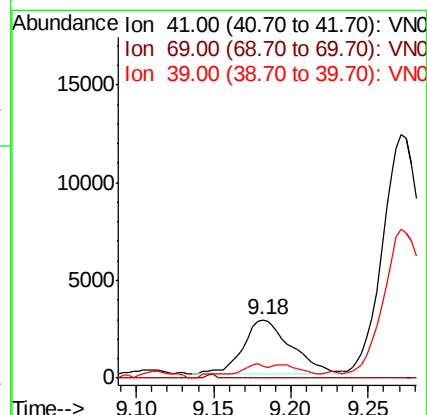
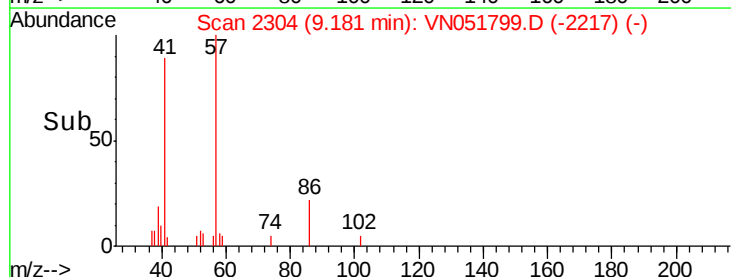


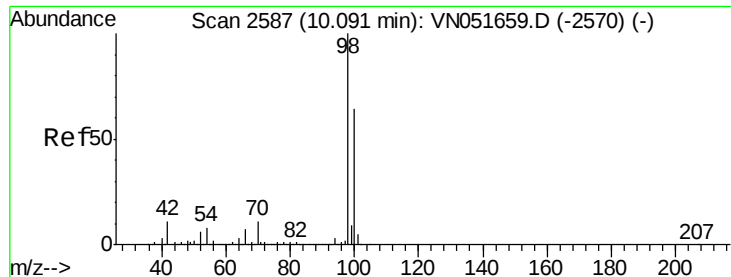
Abundance Ion 41.00 (40.70 to 41.70): VN051659.D (-2298) (-)

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

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

Time-->





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

Instrument :

MSVOA_N

ClientSampleId :

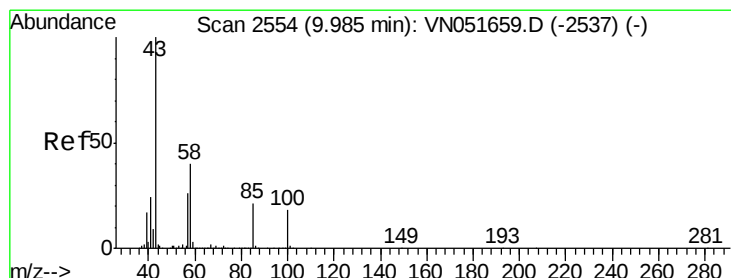
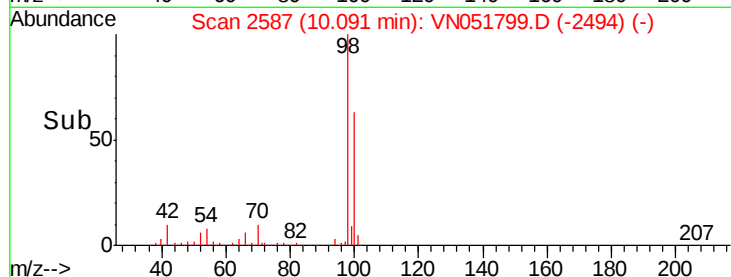
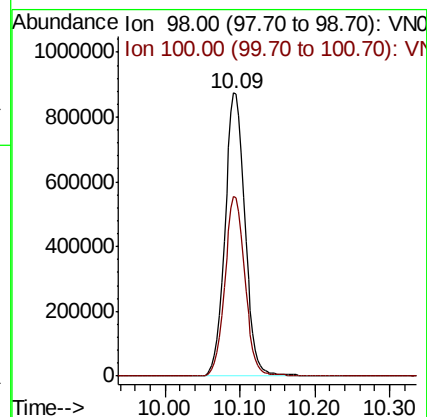
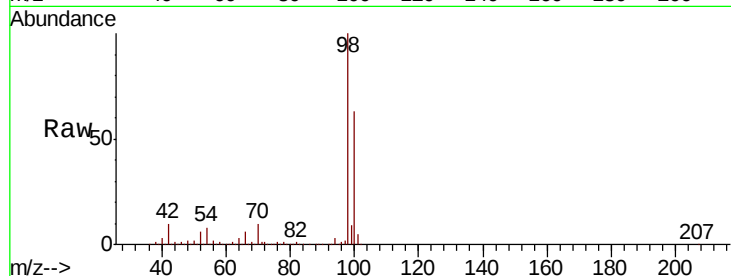
PB113684ZHE#10

Tot Ion: 98 Resp: 1618325

Ion Ratio Lower Upper

98 100

100 63.6 51.5 77.3



#51

4-Methyl-2-Pentanone

Concen: 0.310 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN051799.D

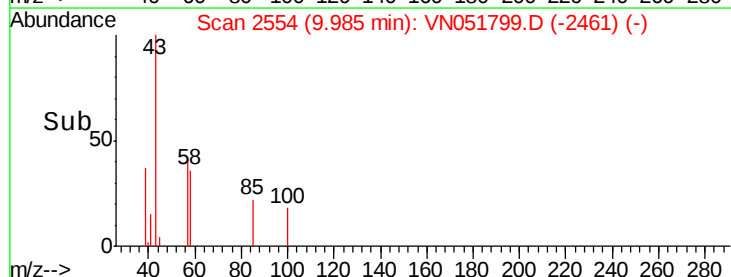
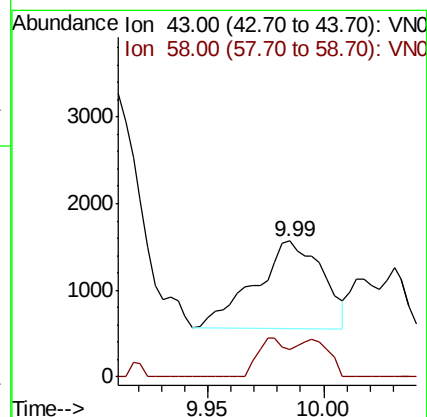
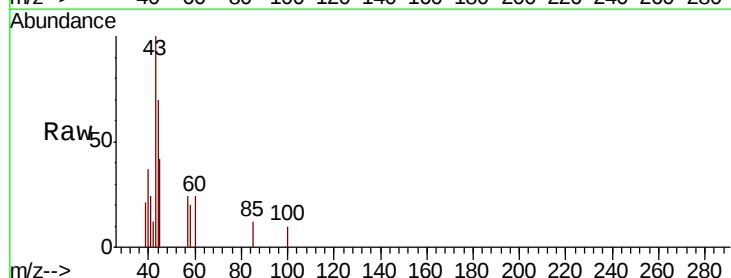
Acq: 10 Oct 2018 18:38

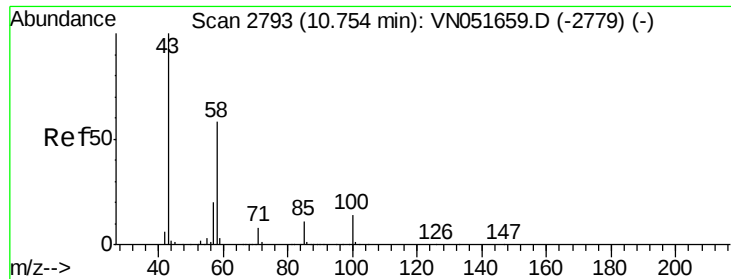
Tgt Ion: 43 Resp: 2046

Ion Ratio Lower Upper

43 100

58 19.4 32.2 48.2#

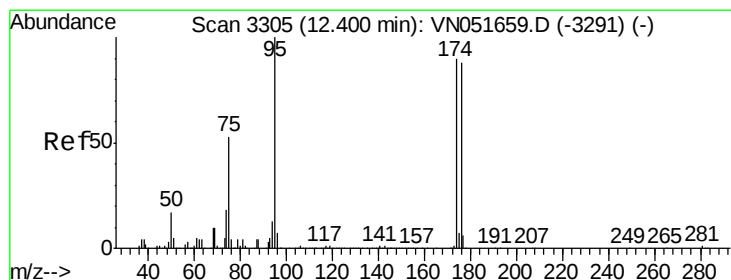
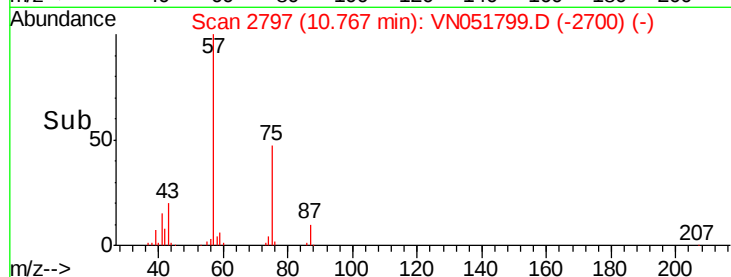
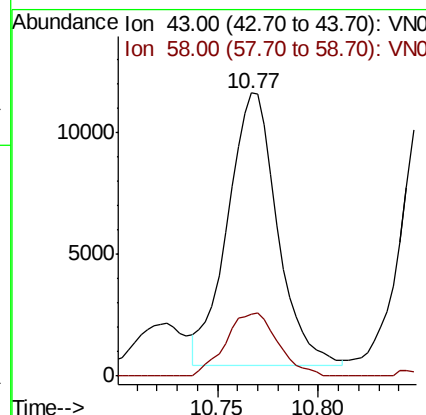
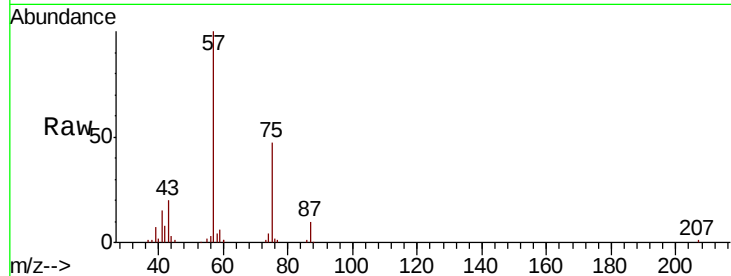




#59
2-Hexanone
Concen: 4.314 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051799.D
Acq: 10 Oct 2018 18:38

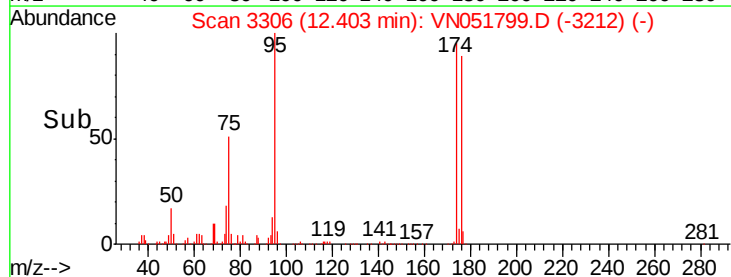
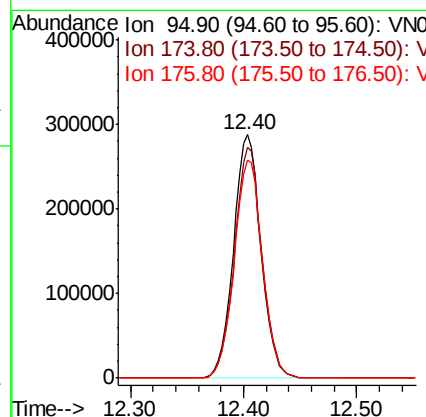
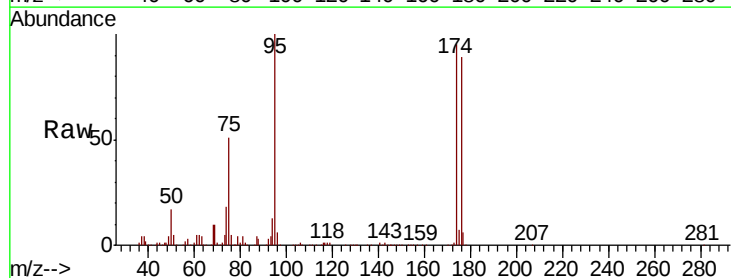
Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#10

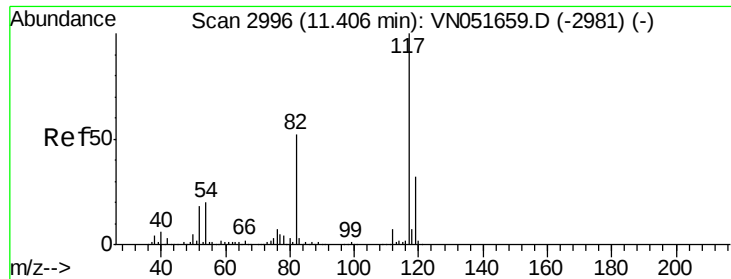
Tot Ion: 43 Resp: 19335
Ion Ratio Lower Upper
43 100
58 24.2 28.8 86.4#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051799.D
Acq: 10 Oct 2018 18:38

Tgt Ion: 95 Resp: 483775
Ion Ratio Lower Upper
95 100
174 95.4 0.0 182.8
176 92.0 0.0 176.4

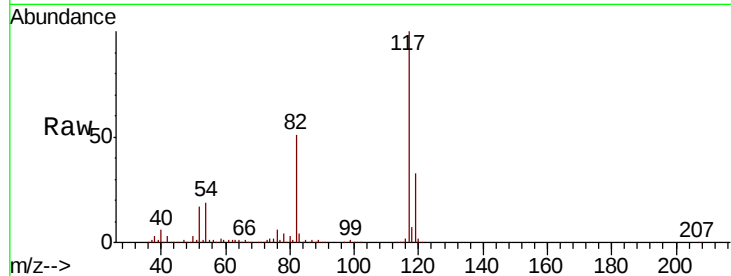




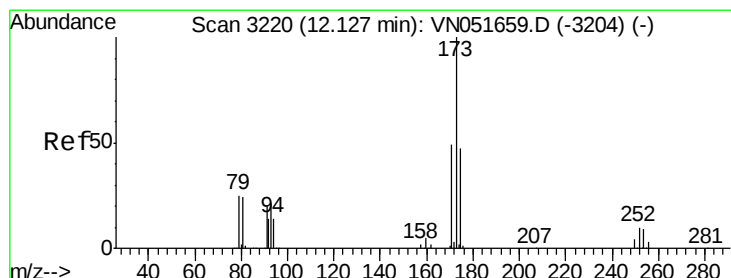
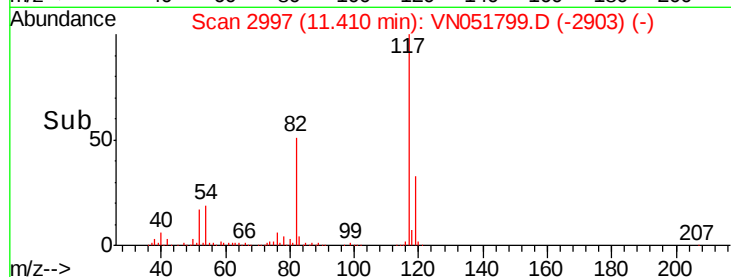
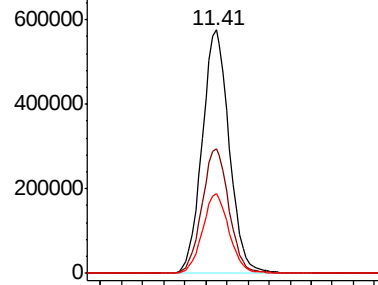
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051799.D
Acq: 10 Oct 2018 18:38

Instrument :
MSVOA_N
ClientSampleId :
PB113684ZHE#10

Tot Ion:117 Resp: 1018672
Ion Ratio Lower Upper
117 100
82 51.3 41.3 61.9
119 32.5 25.9 38.9

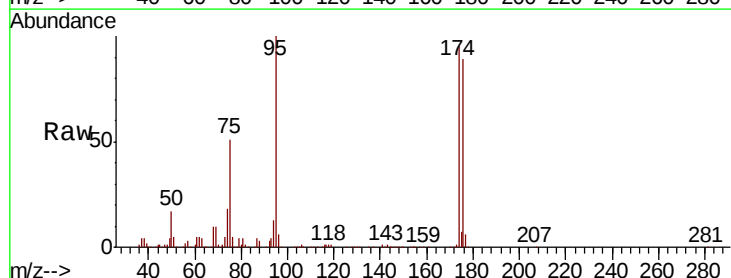


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

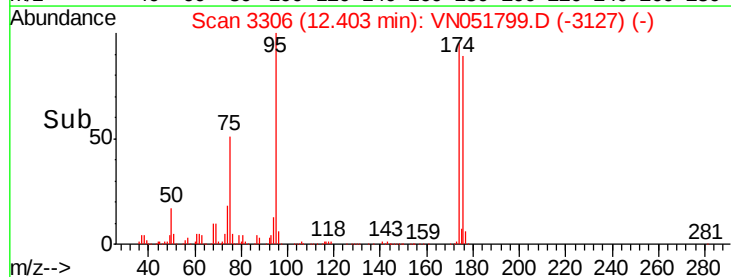
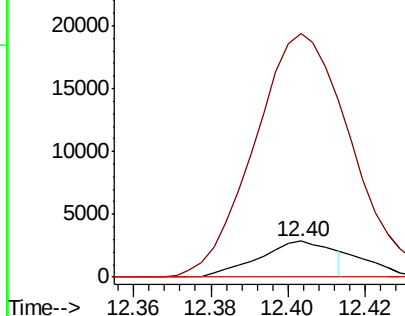


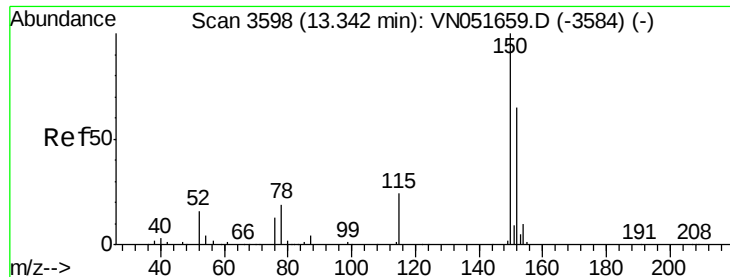
#71
Bromoform
Concen: 0.501 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN051799.D
Acq: 10 Oct 2018 18:38

Tgt Ion:173 Resp: 3763
Ion Ratio Lower Upper
173 100
175 727.9 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: VN051799.D

Acq: 10 Oct 2018 18:38

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#10

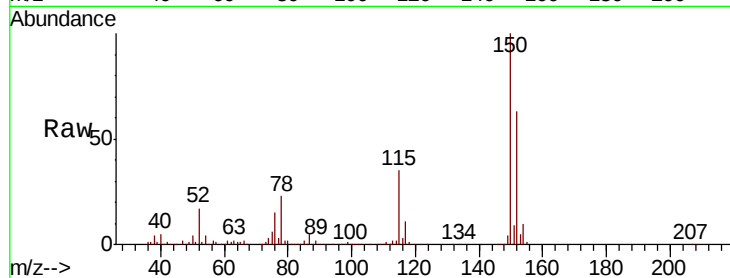
Tot Ion:152 Resp: 411310

Ion Ratio Lower Upper

152 100

115 54.6 28.6 85.8

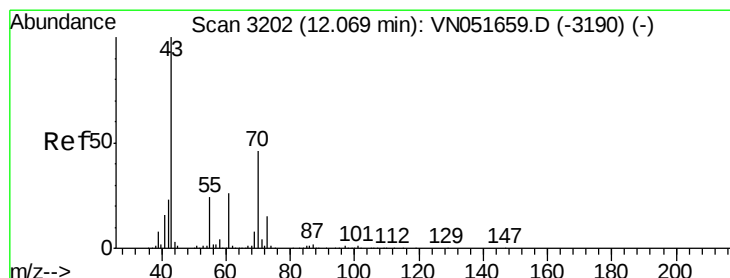
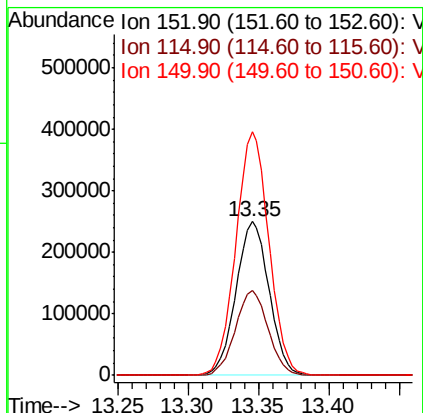
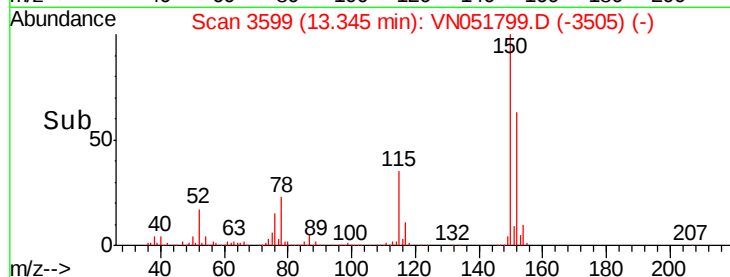
150 158.0 0.0 352.4



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# 3193

Delta R.T. -0.03 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

Tgt Ion: 43 Resp: 144

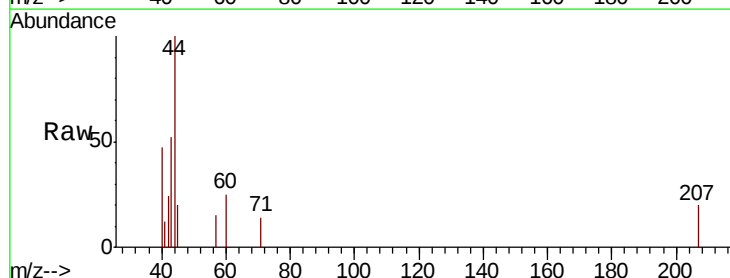
Ion Ratio Lower Upper

43 100

70 0.0 37.1 55.7#

55 80.6 19.1 28.7#

61 0.0 20.8 31.2#

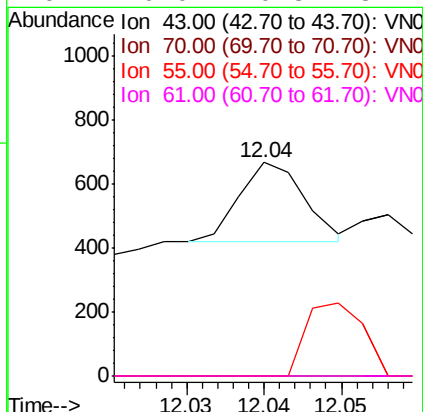
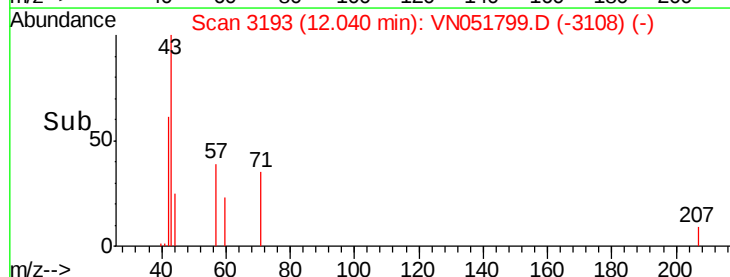


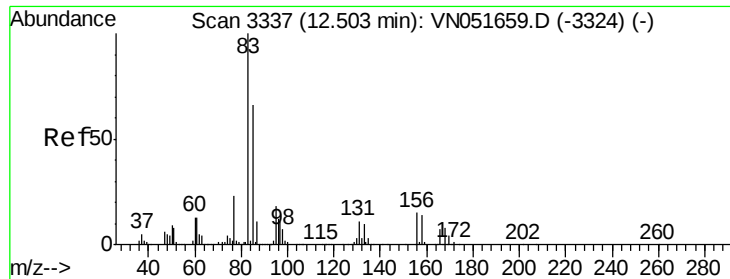
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3306

Delta R.T. -0.10 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#10

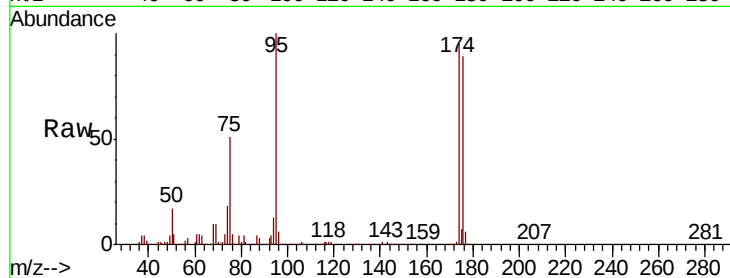
Tot Ion: 83 Resp: 591

Ion Ratio Lower Upper

83 100

131 121.7 5.7 17.1#

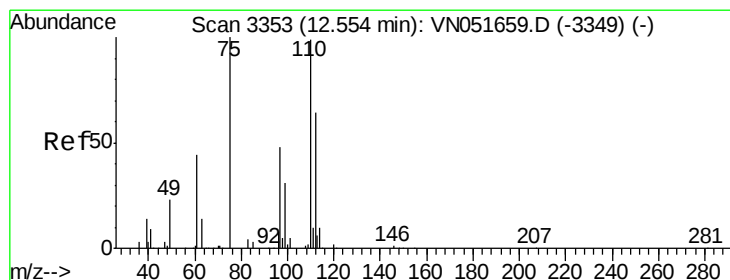
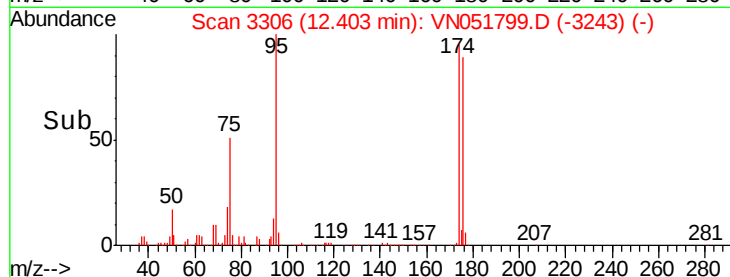
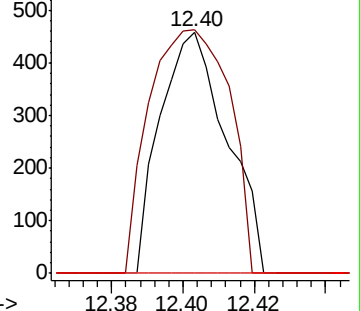
85 0.0 33.0 98.9#



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: 48.014 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051799.D

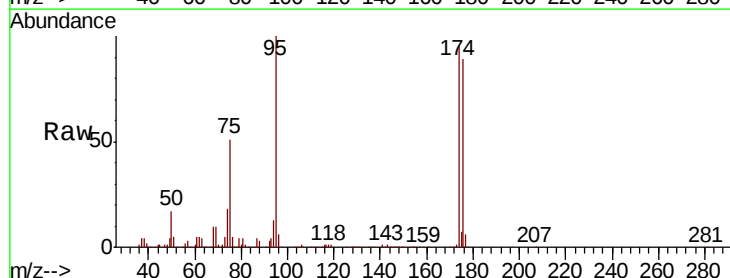
Acq: 10 Oct 2018 18:38

Tgt Ion: 75 Resp: 246214

Ion Ratio Lower Upper

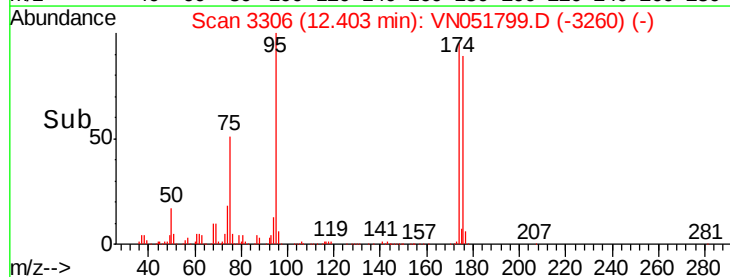
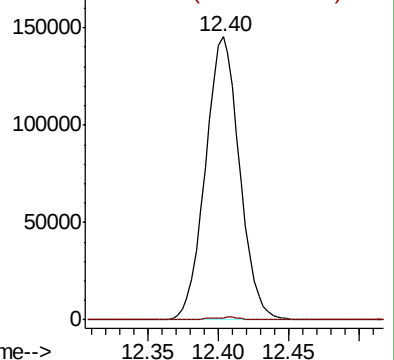
75 100

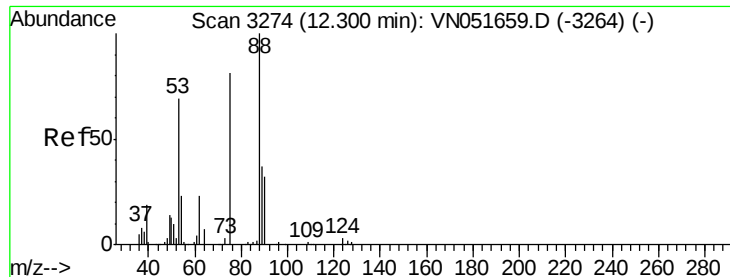
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 110.036 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051799.D

Acq: 10 Oct 2018 18:38

Instrument :

MSVOA_N

ClientSampleId :

PB113684ZHE#10

Tot Ion: 75 Resp: 246214

Ion Ratio Lower Upper

75 100

53 0.0 68.6 102.8#

89 0.0 39.4 59.2#

