

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051547.D
 Acq On : 26 Sep 2018 20:22
 Operator : MD\SY
 Sample : PB113219ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113219ZHE#04

Quant Time: Sep 27 07:59:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	654791	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1068374	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	893159	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	314460	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	473248	57.70	ug/l	0.00
Spiked Amount			Recovery	=	115.40%	
35) Dibromofluoromethane	7.59	113	410445	48.04	ug/l	0.00
Spiked Amount			Recovery	=	96.08%	
50) Toluene-d8	10.09	98	1483896	46.13	ug/l	0.00
Spiked Amount			Recovery	=	92.26%	
62) 4-Bromofluorobenzene	12.40	95	395397	37.99	ug/l	0.00
Spiked Amount			Recovery	=	75.98%	

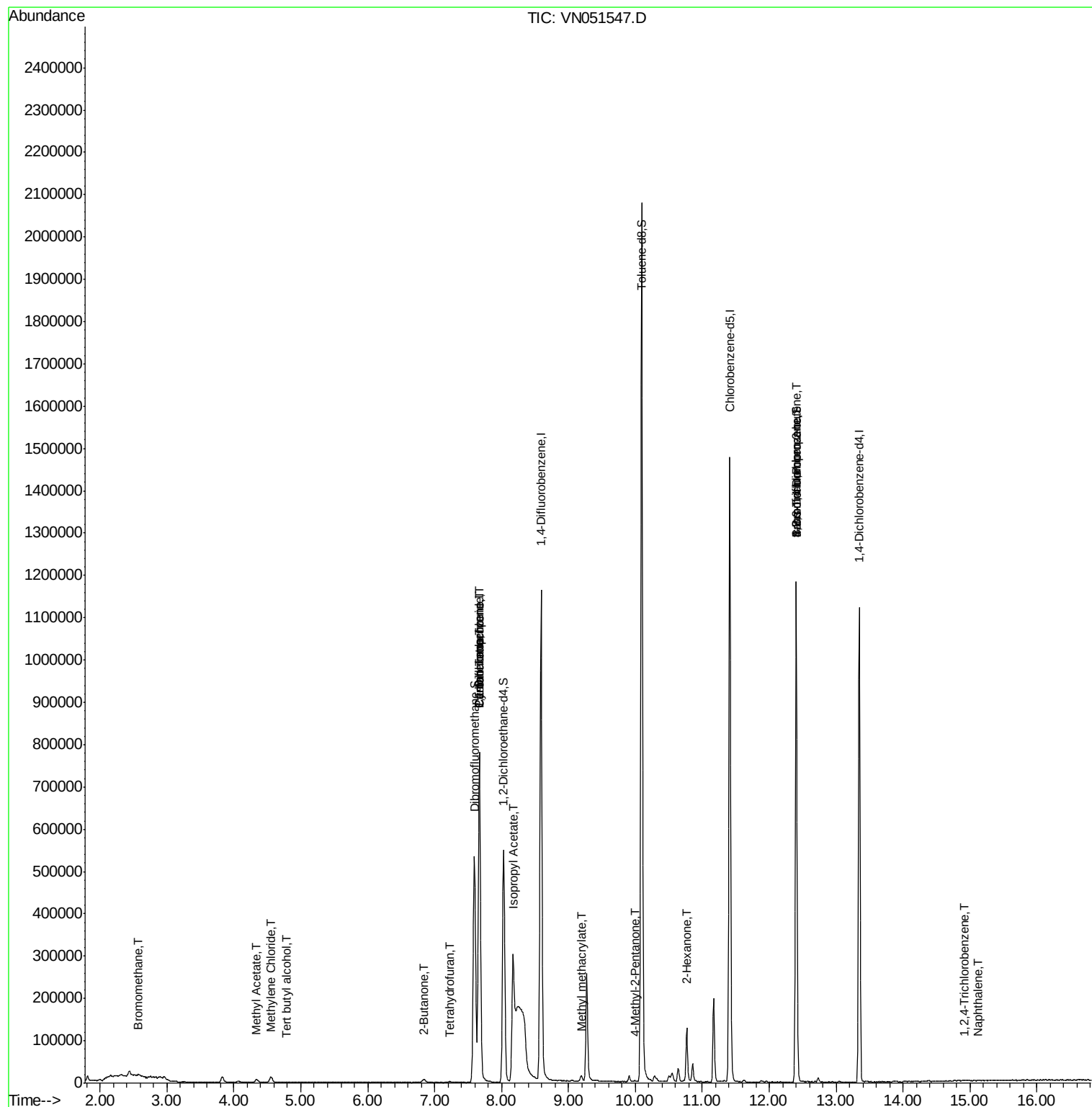
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1712	0.325	ug/l	90
11) Tert butyl alcohol	4.80	59	104	0.225	ug/l #	78
16) Acetone	3.83	43	22318	Below Cal		98
18) Methyl Acetate	4.34	43	14582	2.334	ug/l #	71
20) Methylene Chloride	4.56	84	9794	1.207	ug/l	84
25) 2-Butanone	6.85	43	1496	0.533	ug/l	95
29) Tetrahydrofuran	7.22	42	1256	0.706	ug/l #	81
31) Cyclohexane	7.67	56	12882	0.997	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47921	3.873	ug/l #	48
38) Carbon Tetrachloride	7.67	117	61819	4.777	ug/l #	16
43) Isopropyl Acetate	8.17	43	411583	31.997	ug/l #	89
48) Methyl methacrylate	9.19	41	8977	1.400	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	1918	0.271	ug/l	98
59) 2-Hexanone	10.77	43	18620	4.060	ug/l #	59
71) Bromoform	12.40	173	3301	0.557	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	197218	37.779	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	197218	116.169	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.92	180	125	6.000	ug/l #	30
95) Naphthalene	15.13	128	791	8.101	ug/l #	69

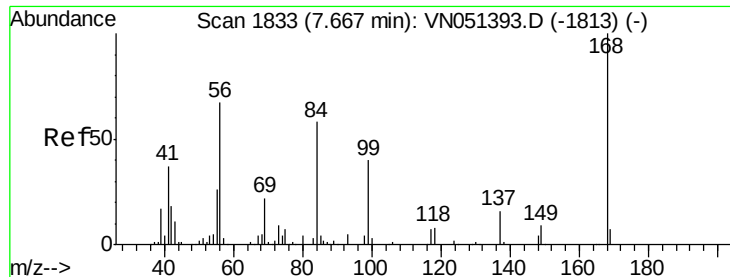
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN051547.D

Acq: 26 Sep 2018 20:22

Instrument :

MSVOA_N

ClientSampleId :

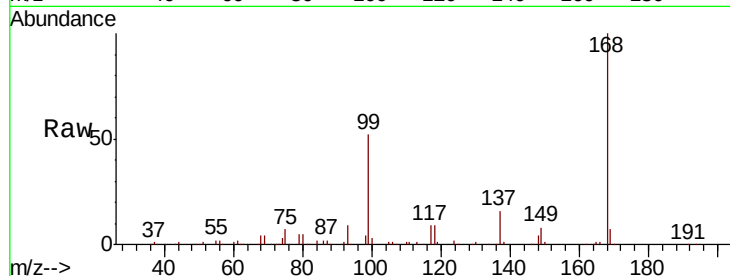
PB113219ZHE#04

Tot Ion:168 Resp: 654791

Ion Ratio Lower Upper

168 100

99 52.2 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

300000

250000

200000

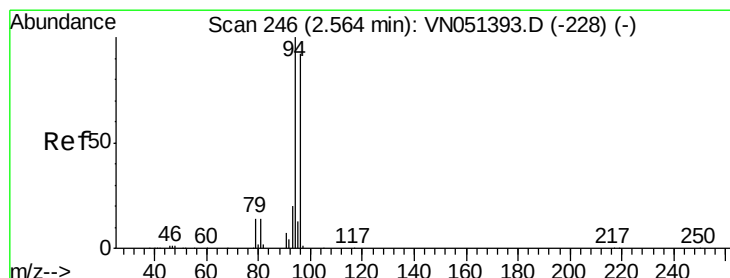
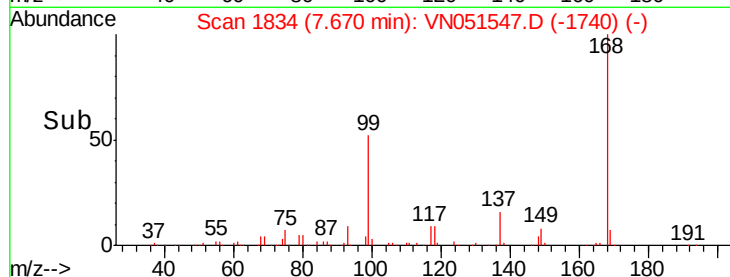
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.325 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051547.D

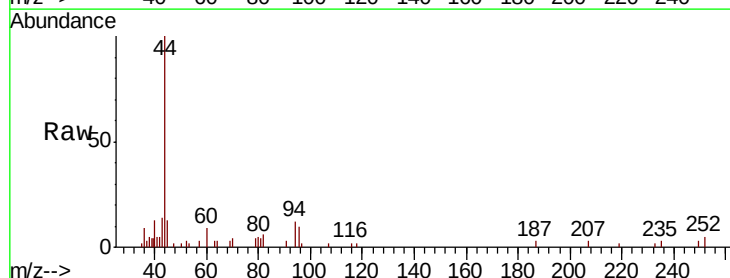
Acq: 26 Sep 2018 20:22

Tgt Ion: 94 Resp: 1712

Ion Ratio Lower Upper

94 100

96 82.6 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.57

1200

1000

800

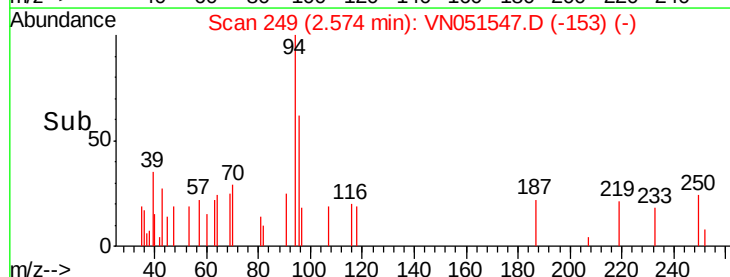
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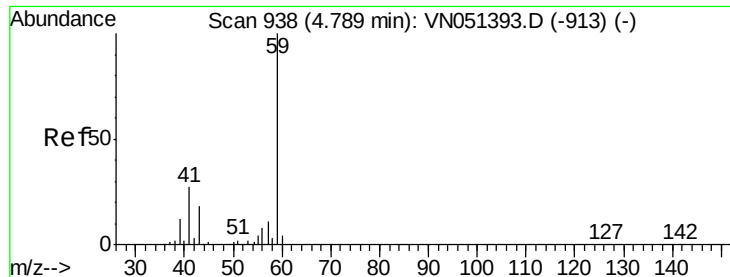
400

200

0

Time-->





#11

Tert butyl alcohol

Concen: 0.225 ug/l

RT: 4.80 min Scan# 941

Delta R.T. 0.01 min

Lab File: VN051547.D

Acq: 26 Sep 2018 20:22

Instrument :

MSVOA_N

ClientSampleId :

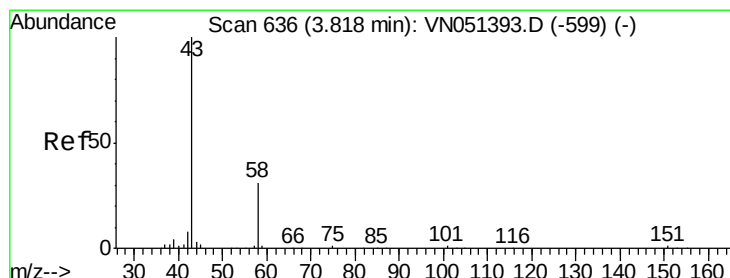
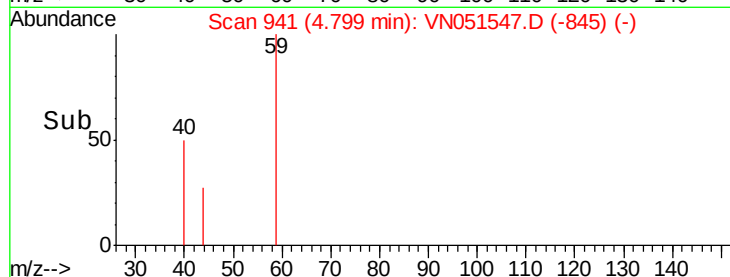
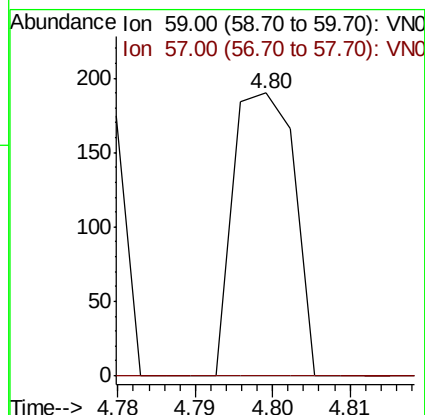
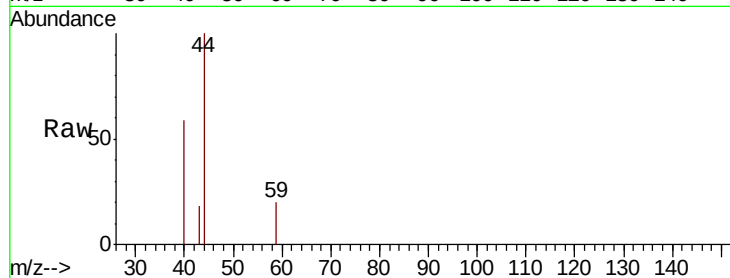
PB113219ZHE#04

Tot Ion: 59 Resp: 104

Ion Ratio Lower Upper

59 100

57 0.0 6.2 9.2#



#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051547.D

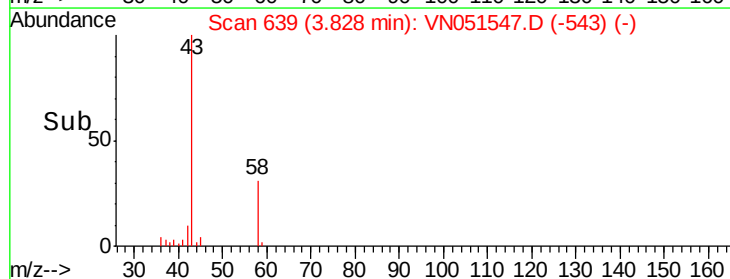
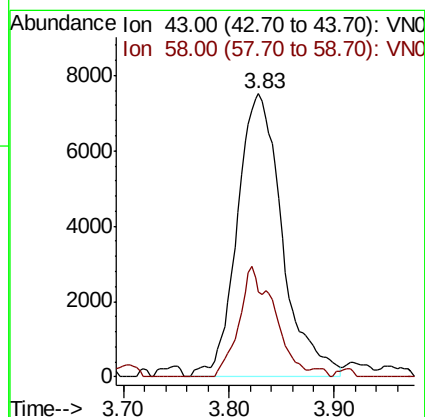
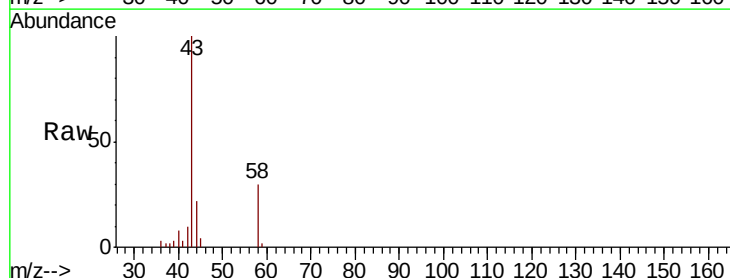
Acq: 26 Sep 2018 20:22

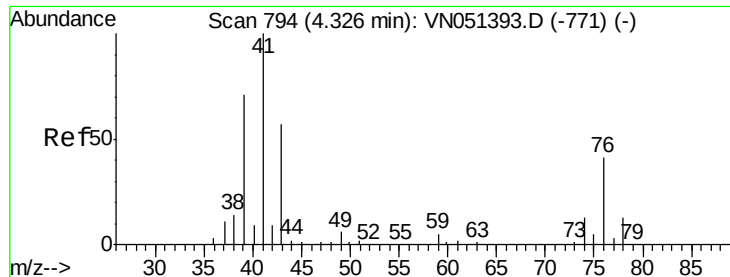
Tgt Ion: 43 Resp: 22318

Ion Ratio Lower Upper

43 100

58 29.9 25.0 37.4

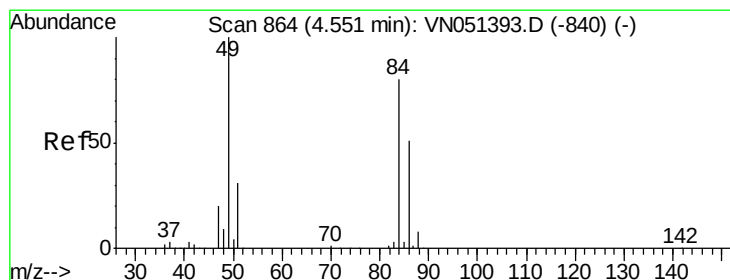
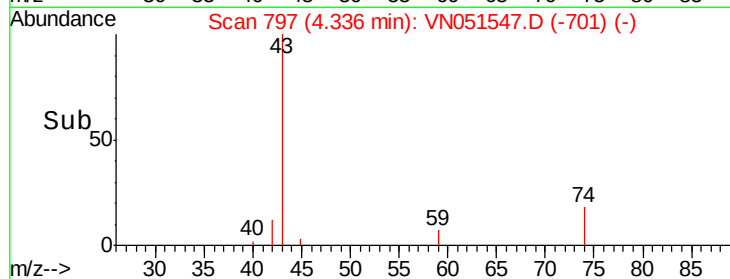
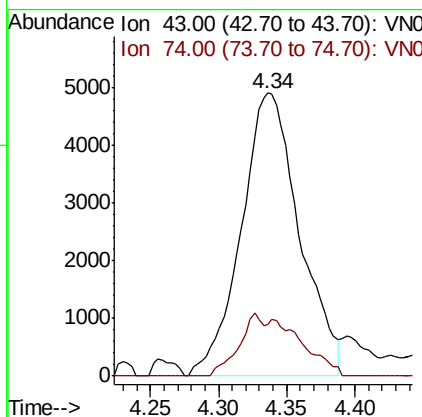
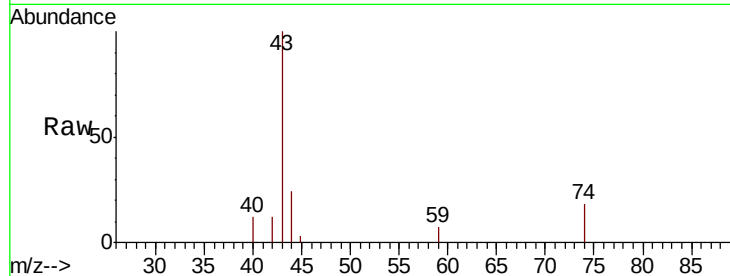




#18
Methyl Acetate
Concen: 2.334 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN051547.D
Acq: 26 Sep 2018 20:22

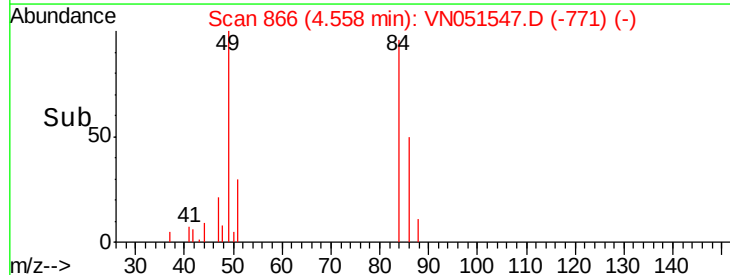
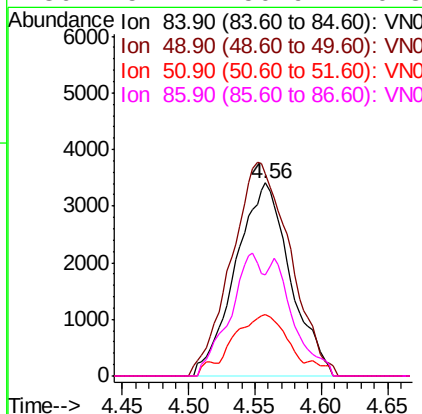
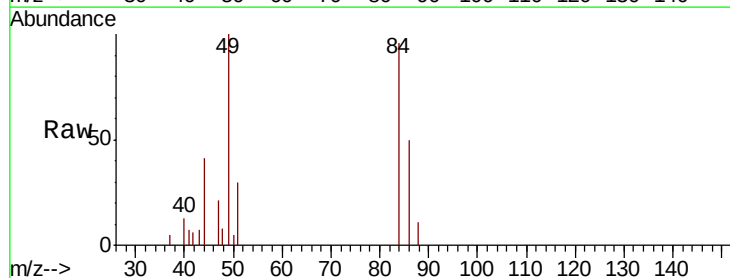
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#04

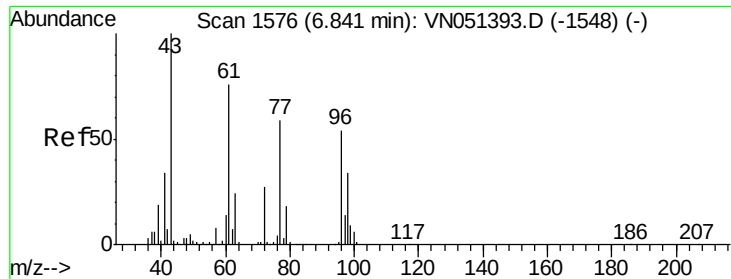
Tot Ion: 43 Resp: 14582
Ion Ratio Lower Upper
43 100
74 9.2 18.8 28.2#



#20
Methylene Chloride
Concen: 1.207 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN051547.D
Acq: 26 Sep 2018 20:22

Tgt Ion: 84 Resp: 9794
Ion Ratio Lower Upper
84 100
49 104.4 99.9 149.9
51 31.8 31.4 47.2
86 52.1 50.9 76.3

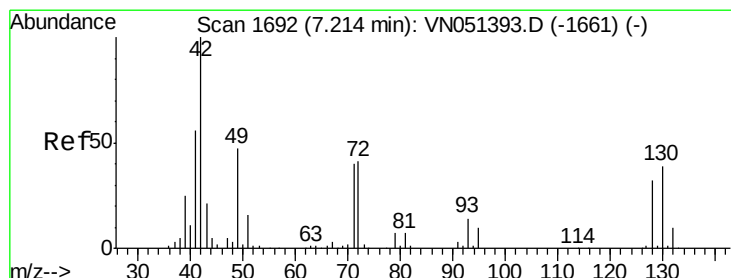
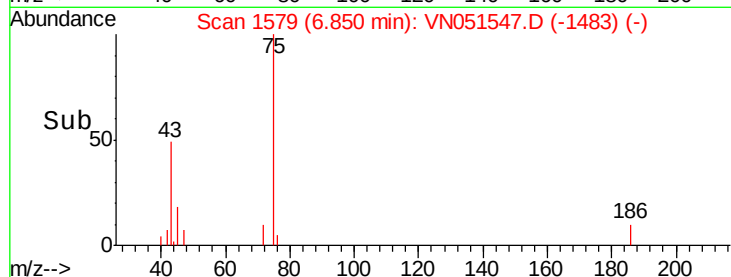
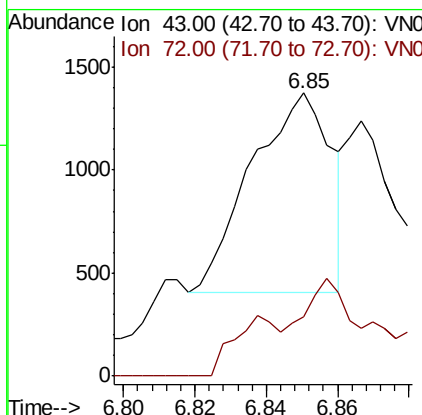
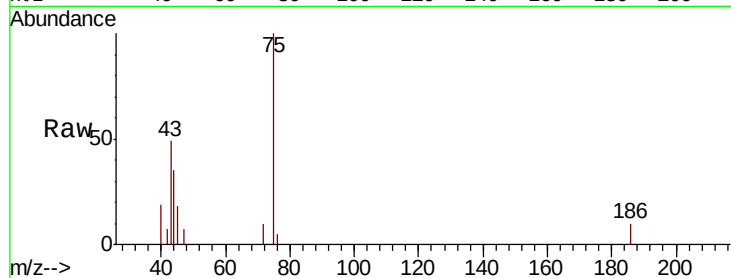




#25
2-Butanone
Concen: 0.533 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051547.D
Acq: 26 Sep 2018 20:22

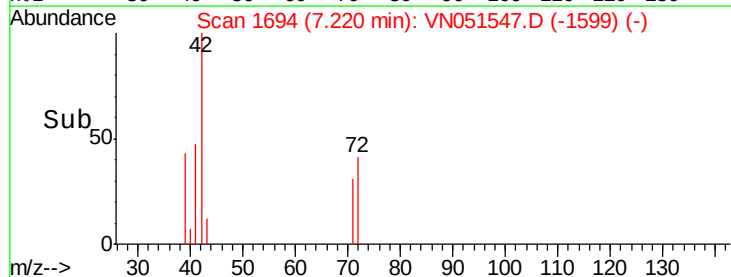
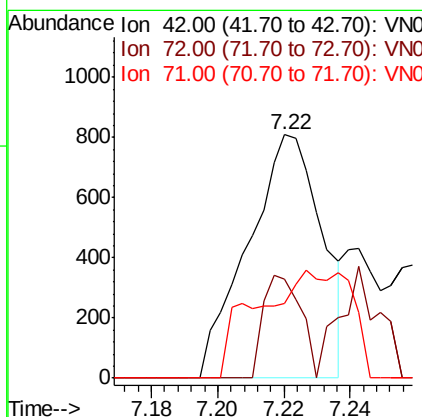
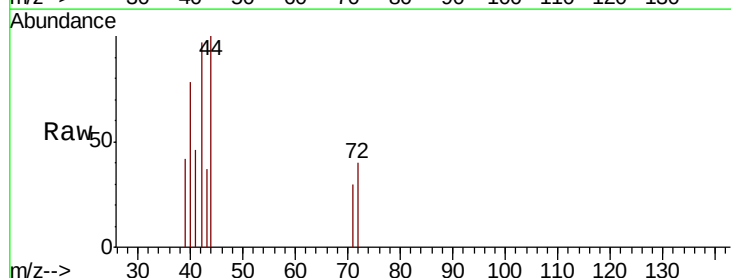
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MSVOA_N
ClientSampleId :
PB113219ZHE#04

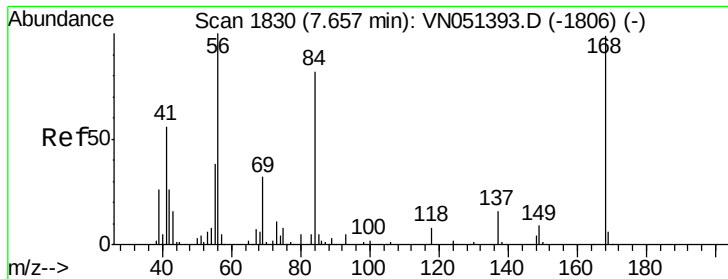
Tot Ion: 43 Resp: 1496
Ion Ratio Lower Upper
43 100
72 30.0 21.8 32.6



#29
Tetrahydrofuran
Concen: 0.706 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN051547.D
Acq: 26 Sep 2018 20:22

Tgt Ion: 42 Resp: 1256
Ion Ratio Lower Upper
42 100
72 21.4 34.3 51.5#
71 37.8 32.2 48.4

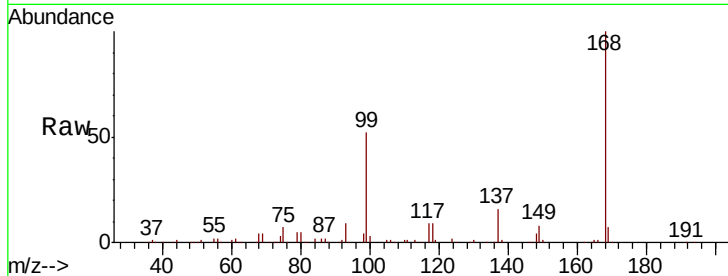




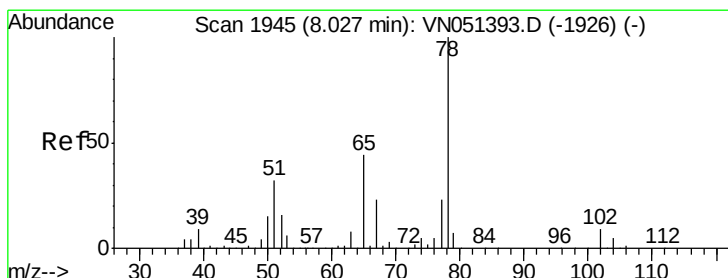
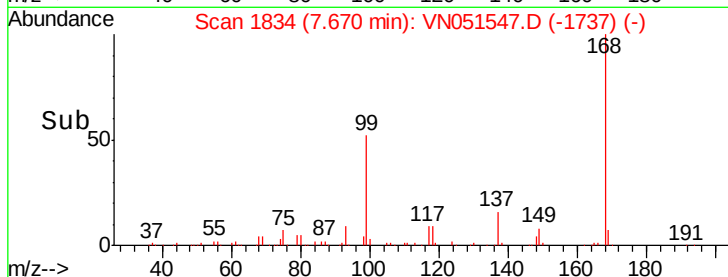
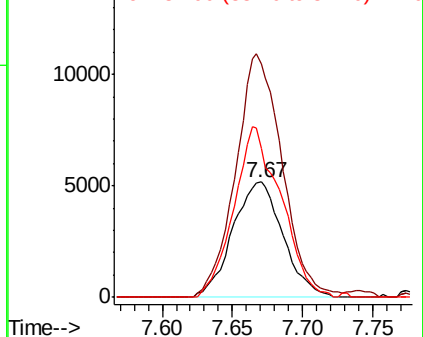
#31
Cyclohexane
Concen: 0.997 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.01 min
Lab File: VN051547.D
Acq: 26 Sep 2018 20:22

Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#04

Tot Ion: 56 Resp: 12882
Ion Ratio Lower Upper
56 100
69 202.4 25.8 38.6#
84 129.0 66.0 99.0#

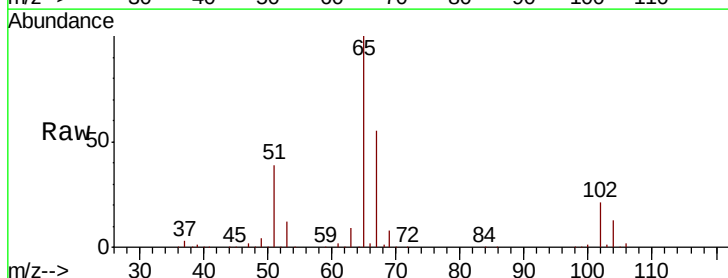


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

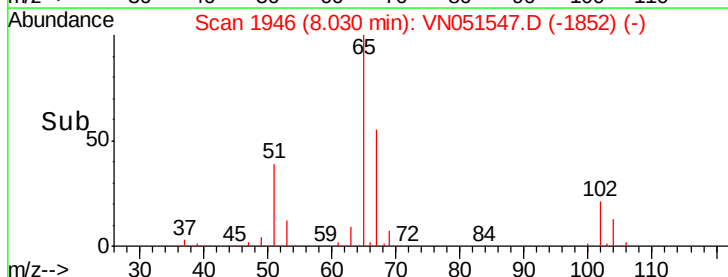
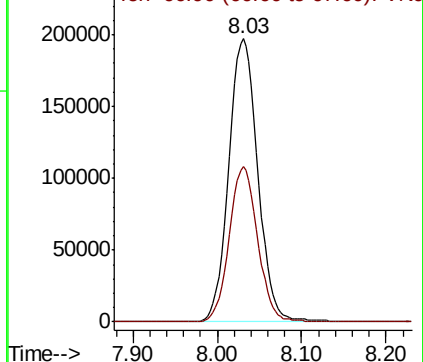


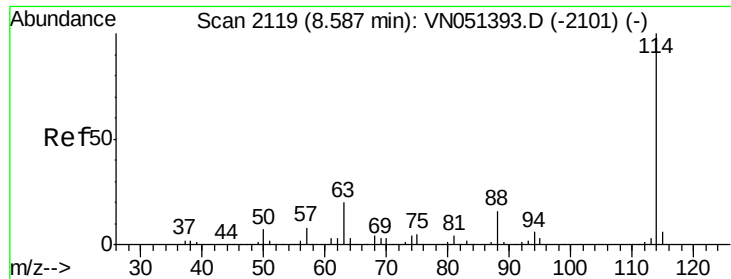
#33
1,2-Dichloroethane-d4
Concen: 57.696 ug/l
RT: 8.03 min Scan# 1946
Delta R.T. 0.00 min
Lab File: VN051547.D
Acq: 26 Sep 2018 20:22

Tgt Ion: 65 Resp: 473248
Ion Ratio Lower Upper
65 100
67 53.7 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

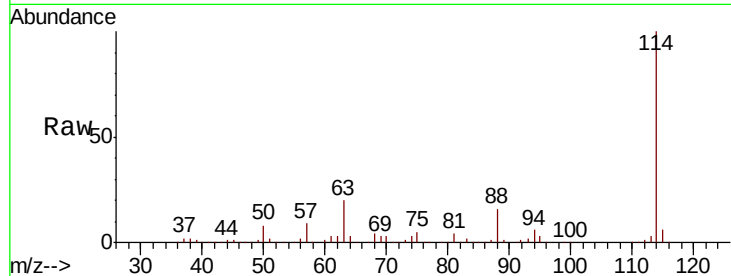




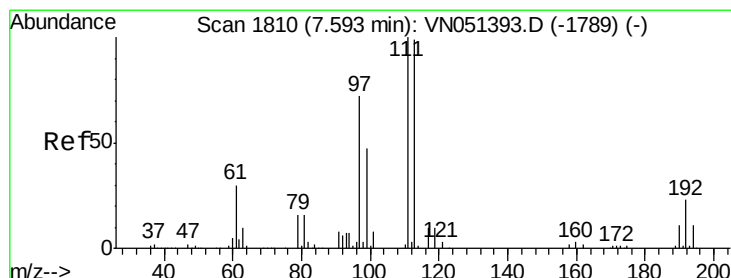
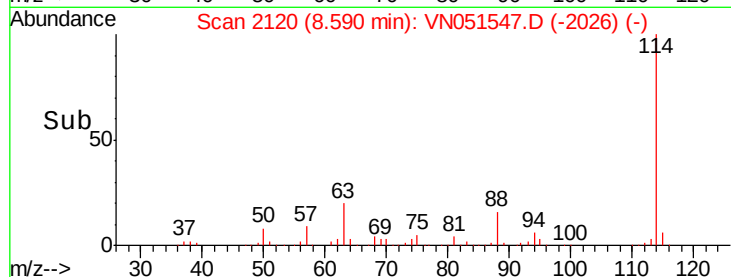
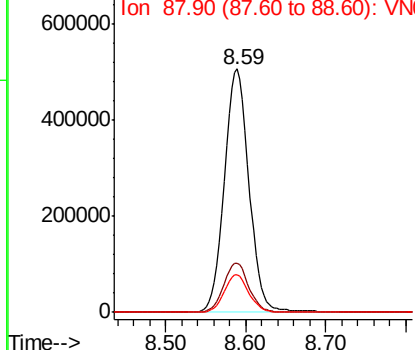
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051547.D
 Acq: 26 Sep 2018 20:22

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113219ZHE#04

Tot Ion:114 Resp: 1068374
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 40.2
 88 15.6 0.0 31.4

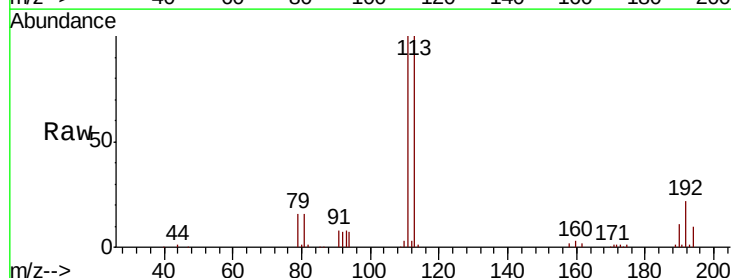


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

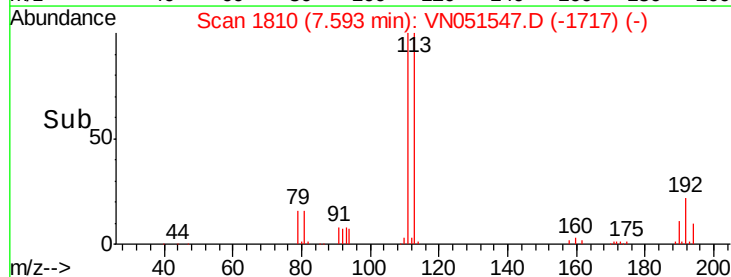
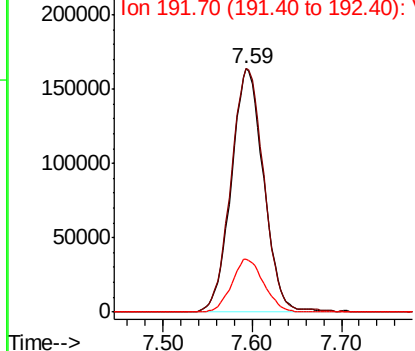


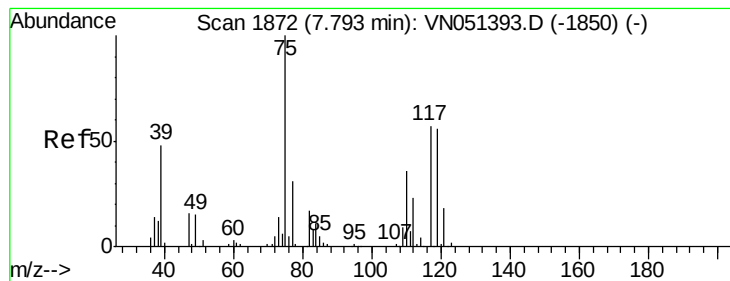
#35
 Dibromofluoromethane
 Concen: 48.043 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051547.D
 Acq: 26 Sep 2018 20:22

Tgt Ion:113 Resp: 410445
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.6 123.8
 192 21.6 18.0 27.0



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: 3.873 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN051547.D

Acq: 26 Sep 2018 20:22

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#04

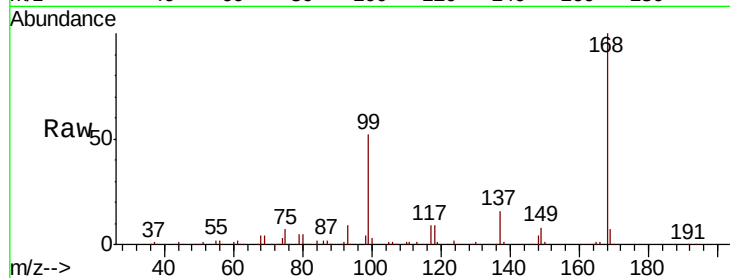
Tot Ion: 75 Resp: 47921

Ion Ratio Lower Upper

75 100

110 8.1 18.1 54.3#

77 0.0 25.6 38.4#



Abundance Ion 74.90 (74.60 to 75.60): VN051393.D (-1850) (-)

Ion 109.90 (109.60 to 110.60): VN051393.D (-1850) (-)

Ion 76.90 (76.60 to 77.60): VN051393.D (-1850) (-)

7.67

25000

20000

15000

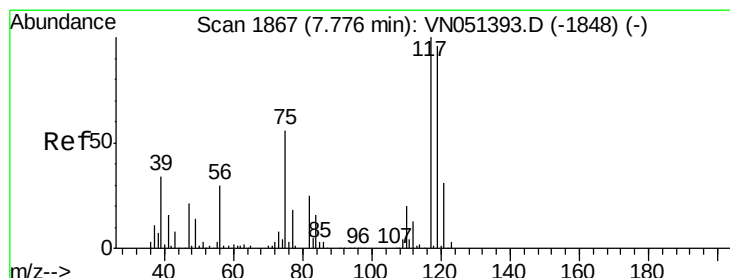
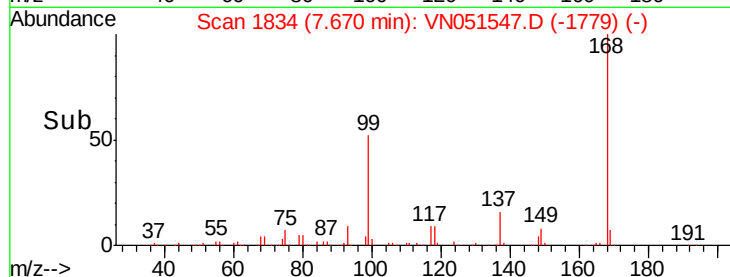
10000

5000

0

7.55 7.60 7.65 7.70 7.75

Time-->



#38

Carbon Tetrachloride

Concen: 4.777 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051547.D

Acq: 26 Sep 2018 20:22

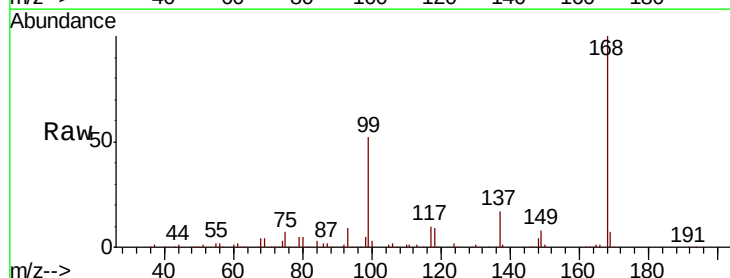
Tgt Ion: 117 Resp: 61819

Ion Ratio Lower Upper

117 100

119 5.0 76.9 115.3#

121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): VN051393.D (-1848) (-)

Ion 118.80 (118.50 to 119.50): VN051393.D (-1848) (-)

Ion 120.80 (120.50 to 121.50): VN051393.D (-1848) (-)

7.67

30000

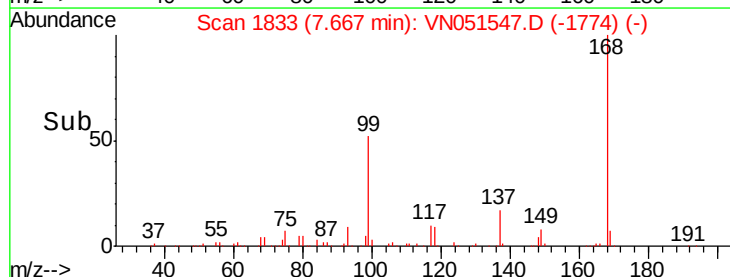
20000

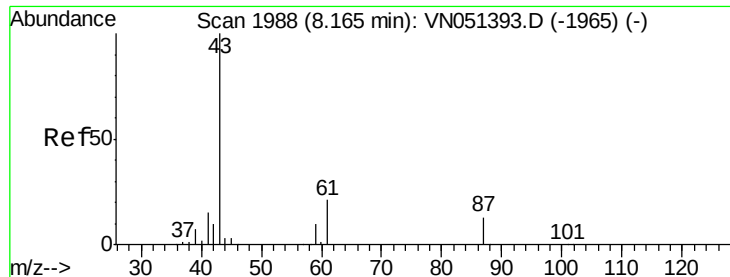
10000

0

7.60 7.70

Time-->





#43

Isopropyl Acetate

Concen: 31.997 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051547.D

Acq: 26 Sep 2018 20:22

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#04

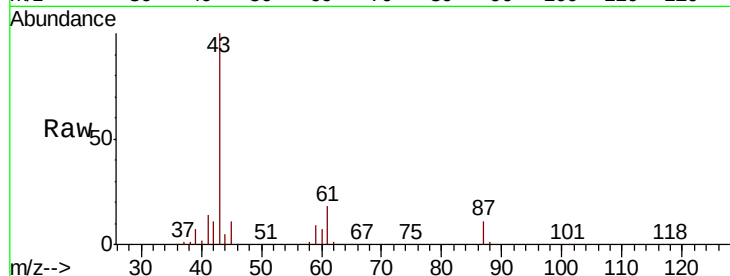
Tot Ion: 43 Resp: 411583

Ion Ratio Lower Upper

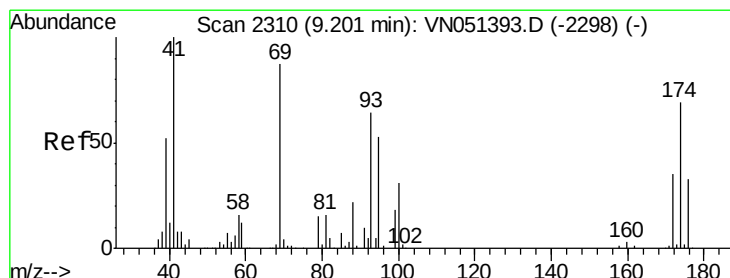
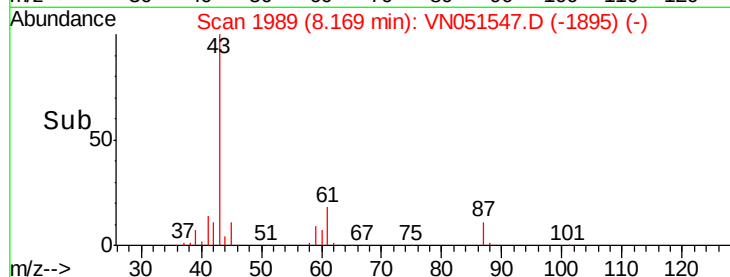
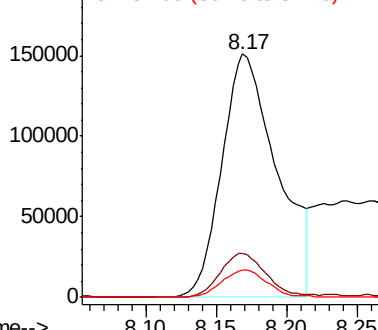
43 100

61 15.2 16.8 25.2#

87 9.4 10.7 16.1#



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.400 ug/l

RT: 9.19 min Scan# 2306

Delta R.T. -0.01 min

Lab File: VN051547.D

Acq: 26 Sep 2018 20:22

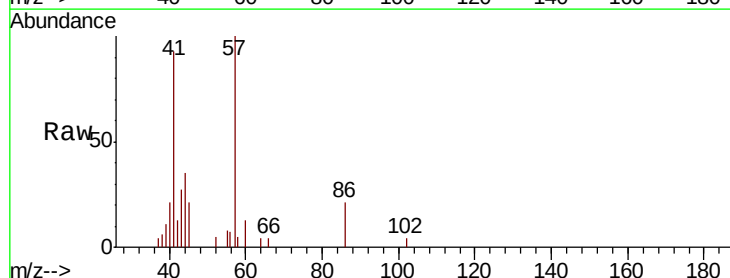
Tgt Ion: 41 Resp: 8977

Ion Ratio Lower Upper

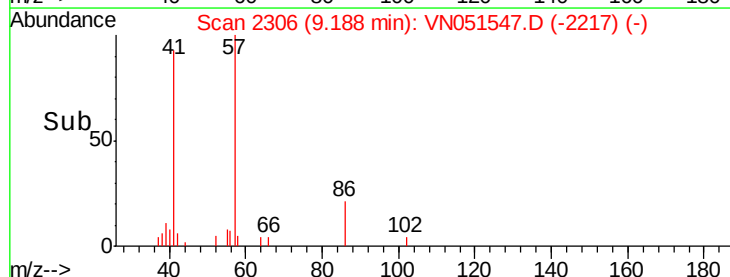
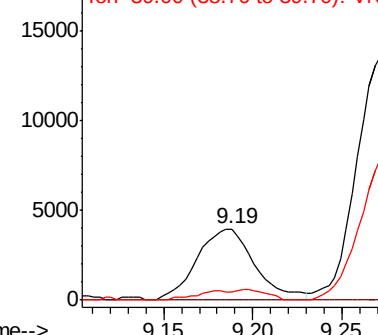
41 100

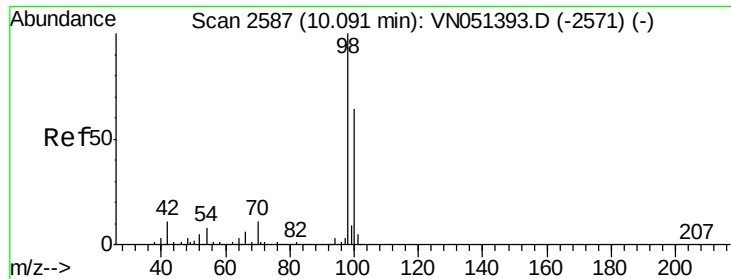
69 0.0 70.4 105.6#

39 7.8 43.8 65.8#



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

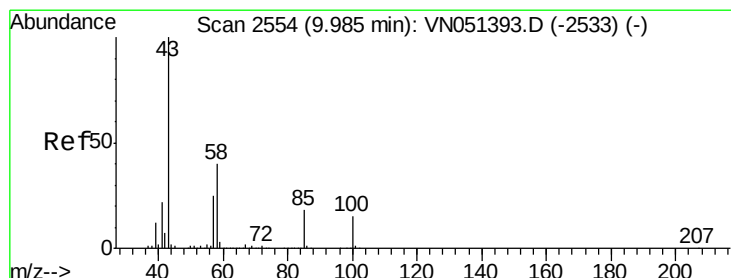
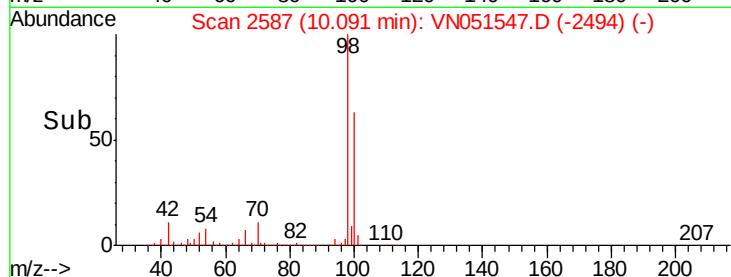
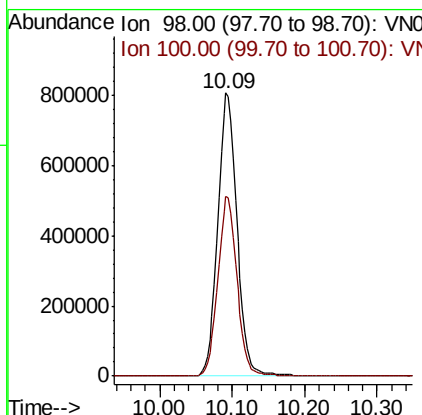
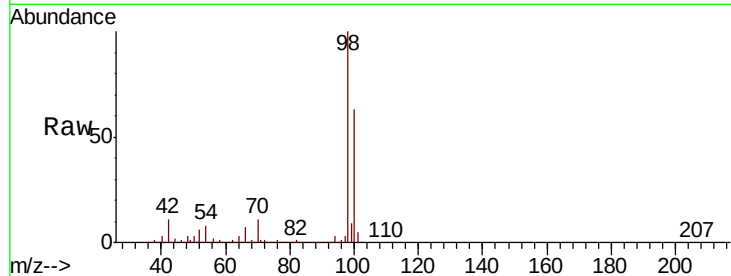




#50
Toluene-d8
Concen: 46.125 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051547.D
Acq: 26 Sep 2018 20:22

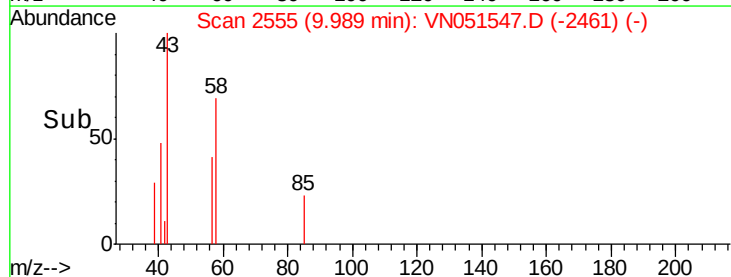
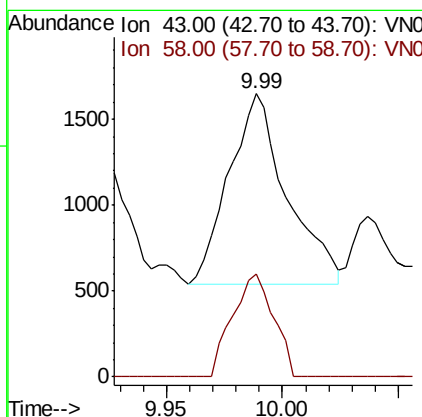
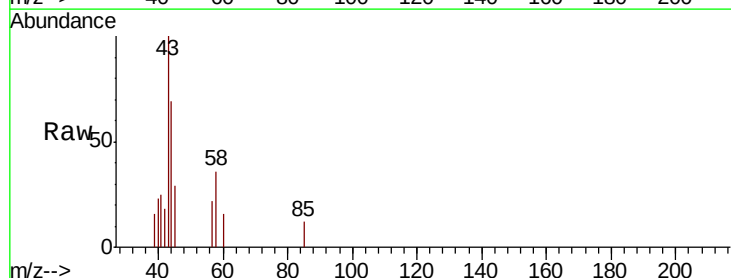
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#04

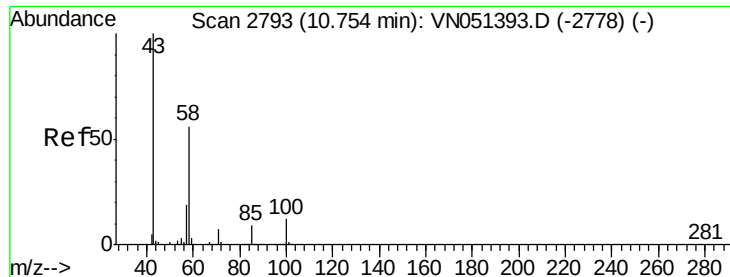
Tot Ion: 98 Resp: 1483896
Ion Ratio Lower Upper
98 100
100 62.9 50.6 75.8



#51
4-Methyl-2-Pentanone
Concen: 0.271 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051547.D
Acq: 26 Sep 2018 20:22

Tgt Ion: 43 Resp: 1918
Ion Ratio Lower Upper
43 100
58 38.5 31.5 47.3





#59

2-Hexanone

Concen: 4.060 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN051547.D

Acq: 26 Sep 2018 20:22

Instrument :

MSVOA_N

ClientSampleId :

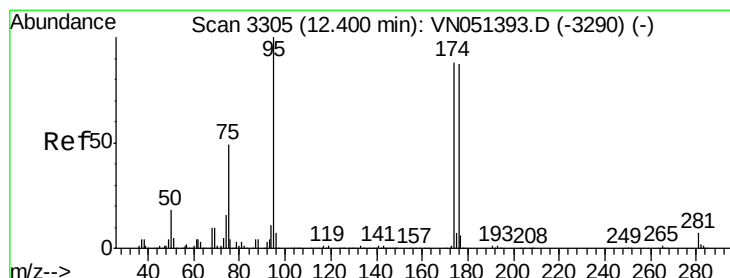
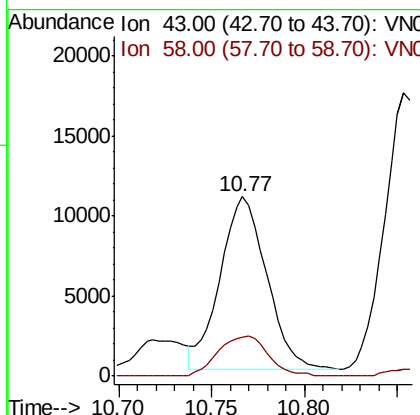
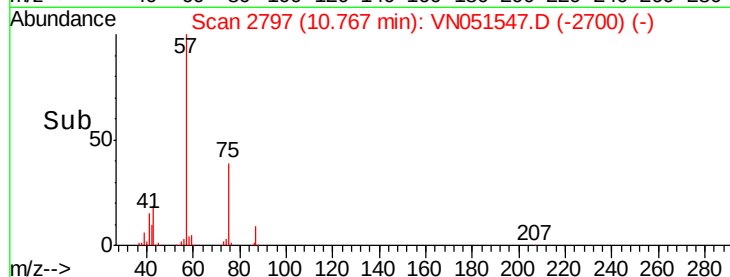
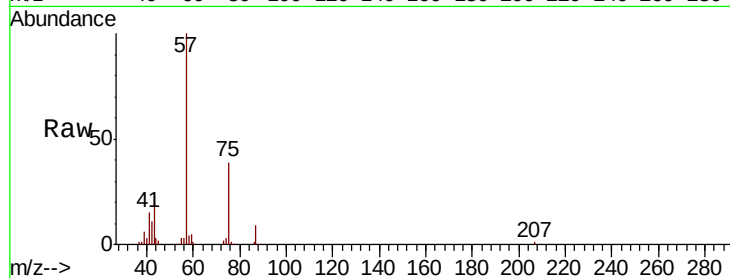
PB113219ZHE#04

Tot Ion: 43 Resp: 18620

Ion Ratio Lower Upper

43 100

58 25.4 27.7 83.0#



#62

4-Bromofluorobenzene

Concen: 37.992 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051547.D

Acq: 26 Sep 2018 20:22

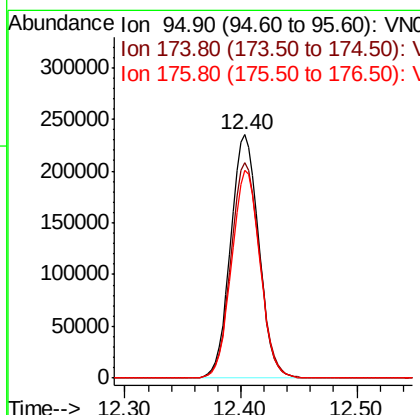
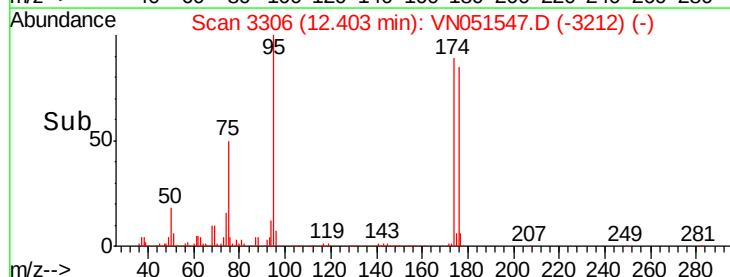
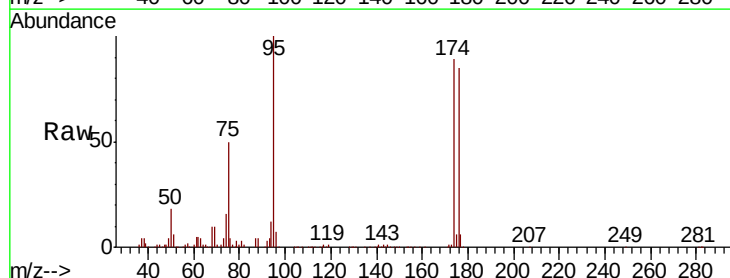
Tgt Ion: 95 Resp: 395397

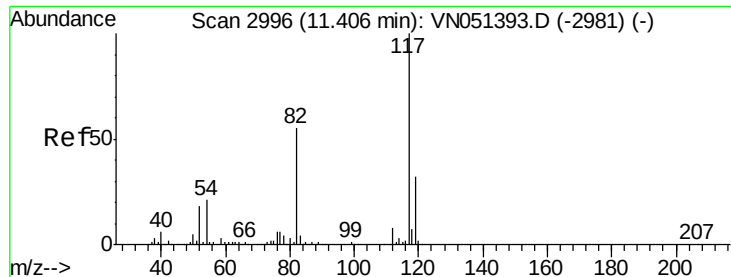
Ion Ratio Lower Upper

95 100

174 90.5 0.0 181.6

176 85.8 0.0 176.4

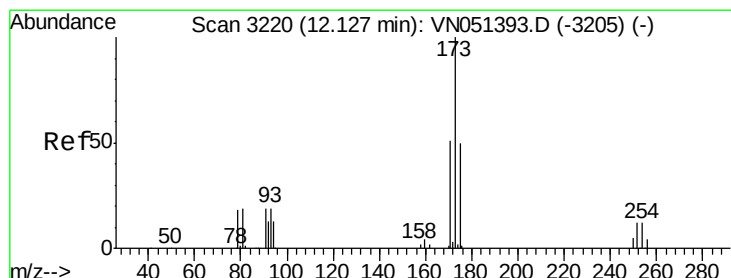
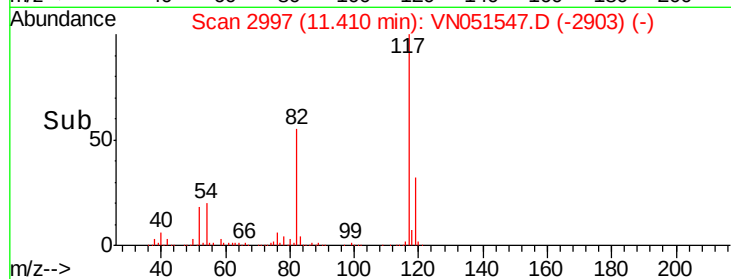
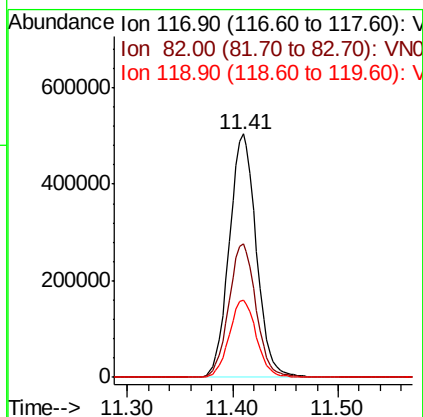
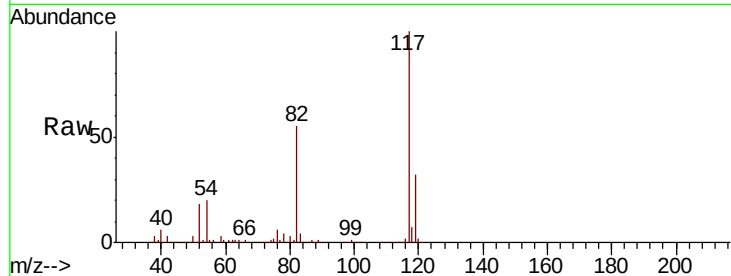




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051547.D
Acq: 26 Sep 2018 20:22

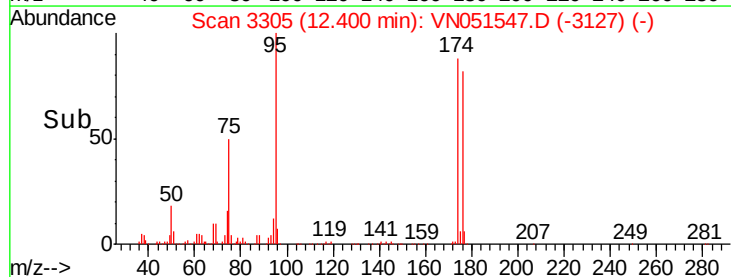
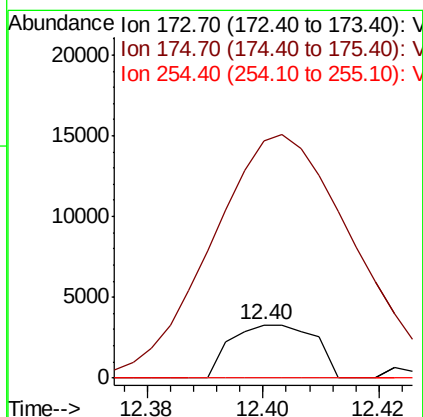
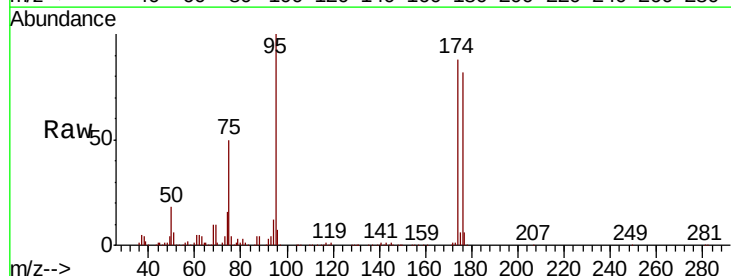
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#04

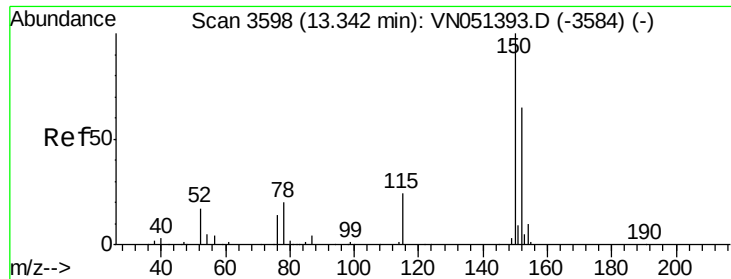
Tot Ion:117 Resp: 893159
Ion Ratio Lower Upper
117 100
82 54.9 44.2 66.2
119 31.7 25.9 38.9



#71
Bromoform
Concen: 0.557 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051547.D
Acq: 26 Sep 2018 20:22

Tgt Ion:173 Resp: 3301
Ion Ratio Lower Upper
173 100
175 644.4 24.8 74.3#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051547.D

Acq: 26 Sep 2018 20:22

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#04

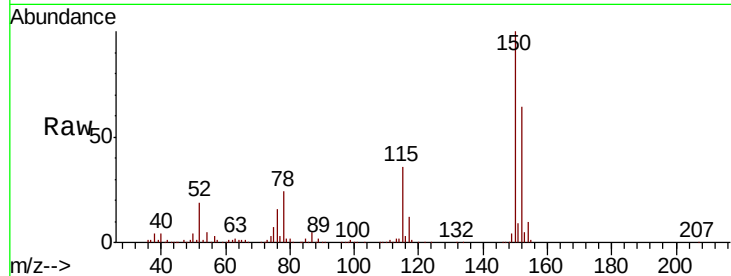
Tot Ion:152 Resp: 314460

Ion Ratio Lower Upper

152 100

115 56.7 28.3 84.9

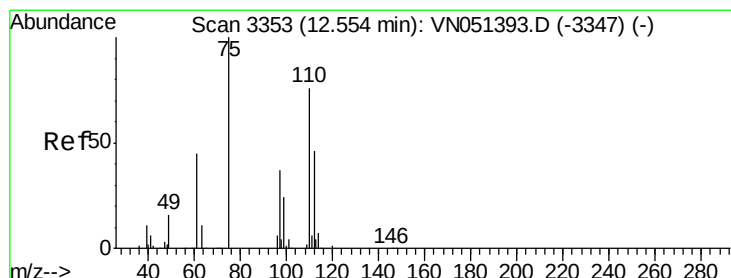
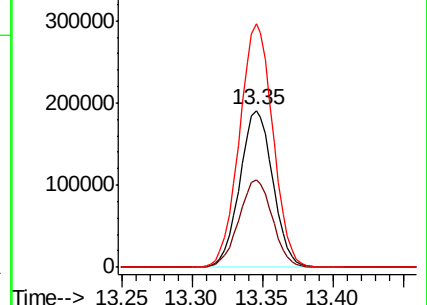
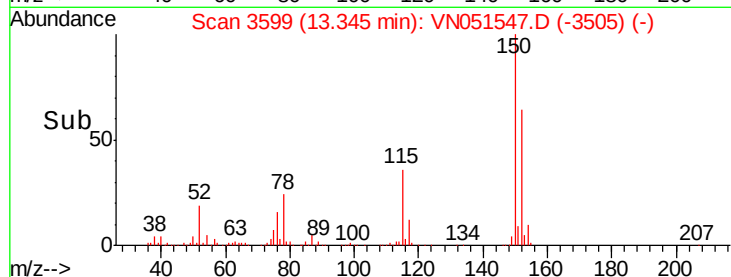
150 156.9 0.0 353.6



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: 37.779 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051547.D

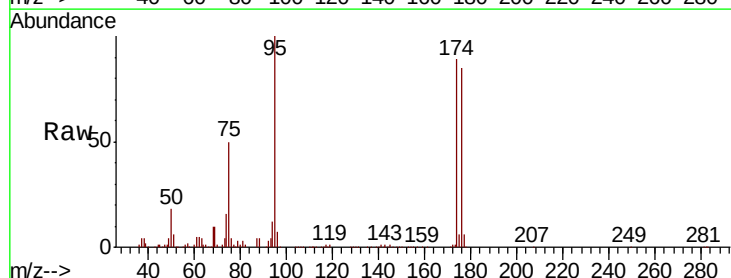
Acq: 26 Sep 2018 20:22

Tgt Ion: 75 Resp: 197218

Ion Ratio Lower Upper

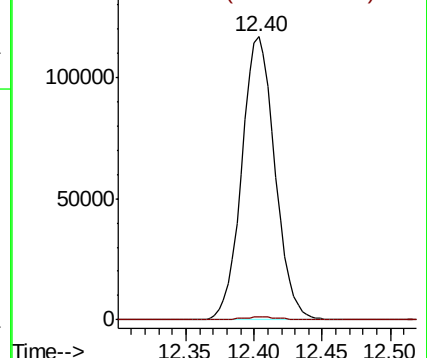
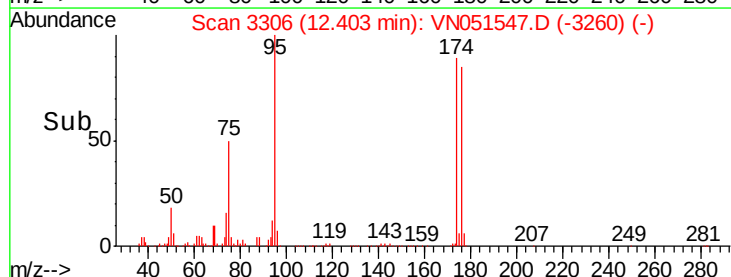
75 100

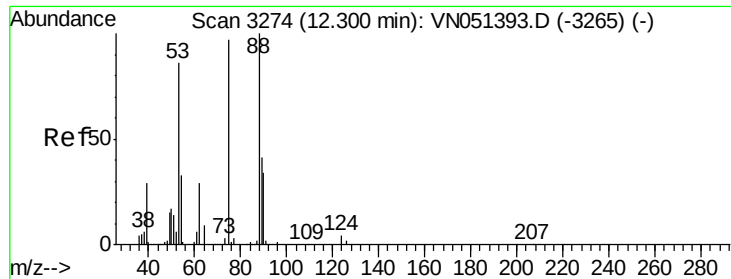
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 116.169 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051547.D

Acq: 26 Sep 2018 20:22

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#04

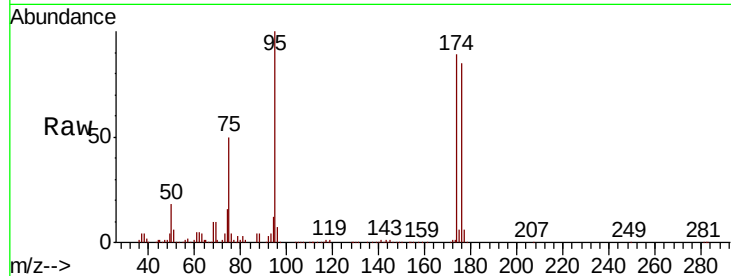
Tot Ion: 75 Resp: 197218

Ion Ratio Lower Upper

75 100

53 0.3 73.9 110.9#

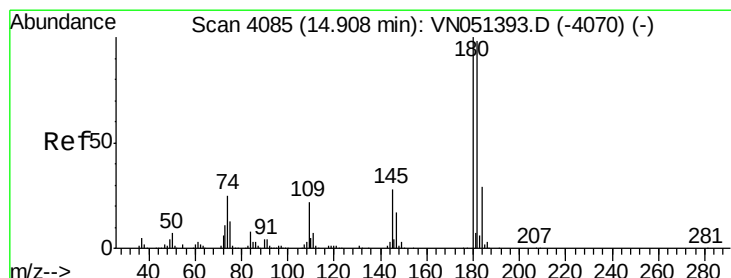
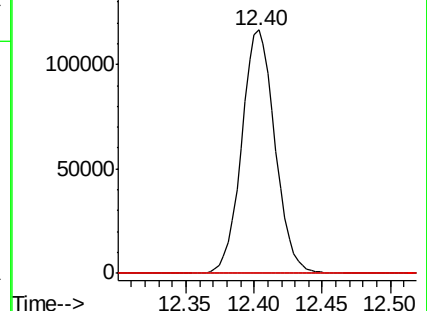
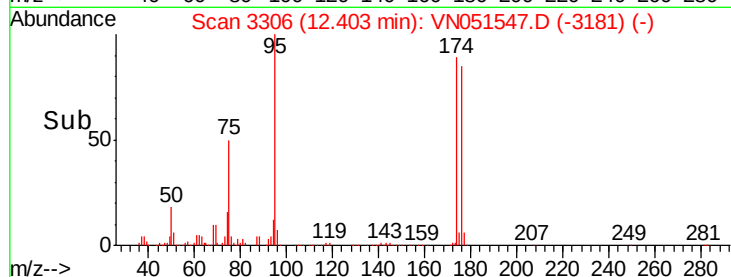
89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 6.000 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN051547.D

Acq: 26 Sep 2018 20:22

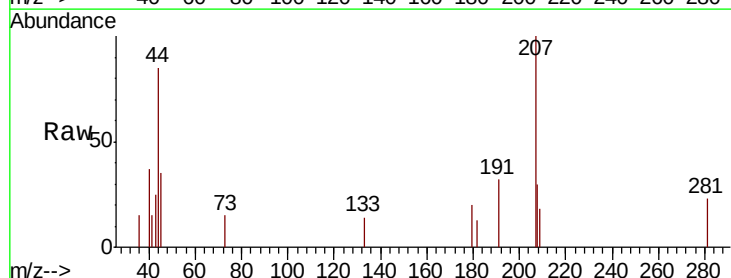
Tgt Ion:180 Resp: 125

Ion Ratio Lower Upper

180 100

182 24.0 48.5 145.6#

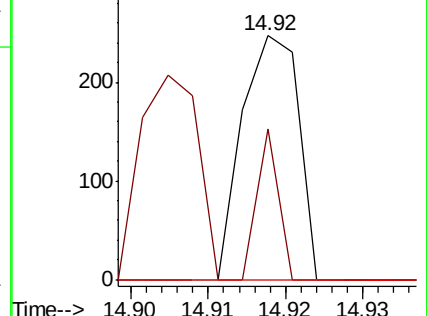
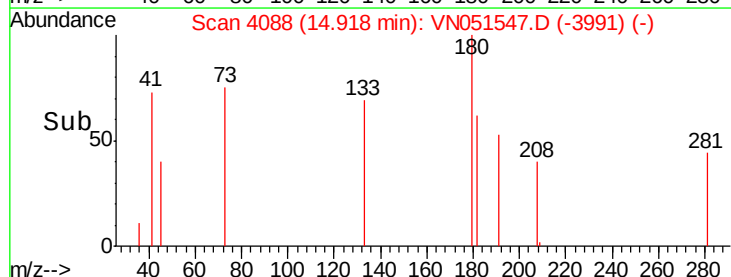
145 0.0 14.1 42.4#

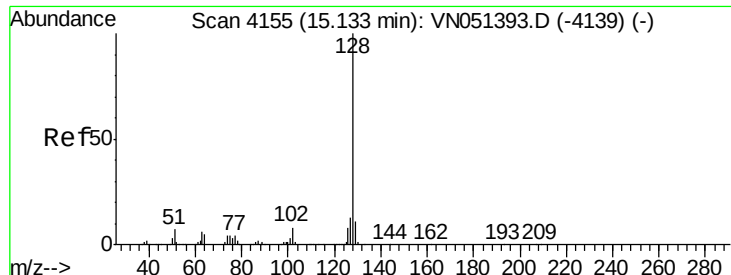


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 8.101 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051547.D

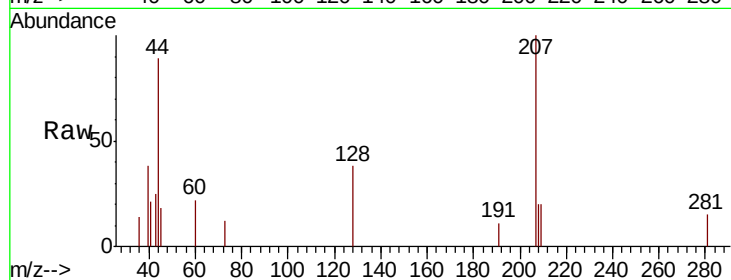
Acq: 26 Sep 2018 20:22

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#04



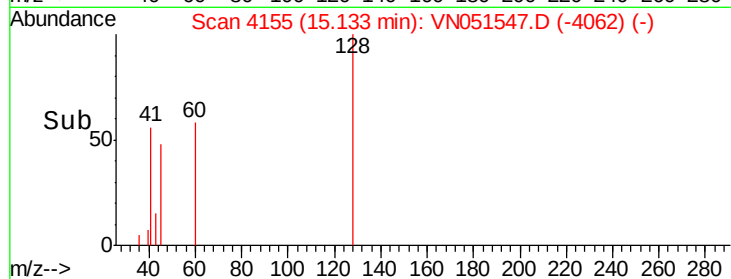
Tot Ion:128 Resp: 791

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.6 12.8#



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

