

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091818\
 Data File : VN051288.D
 Acq On : 18 Sep 2018 10:46
 Operator : MD\SY
 Sample : VN0918WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 18 14:30:44 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 18 06:04:06 2018
 Response via : Initial Calibration

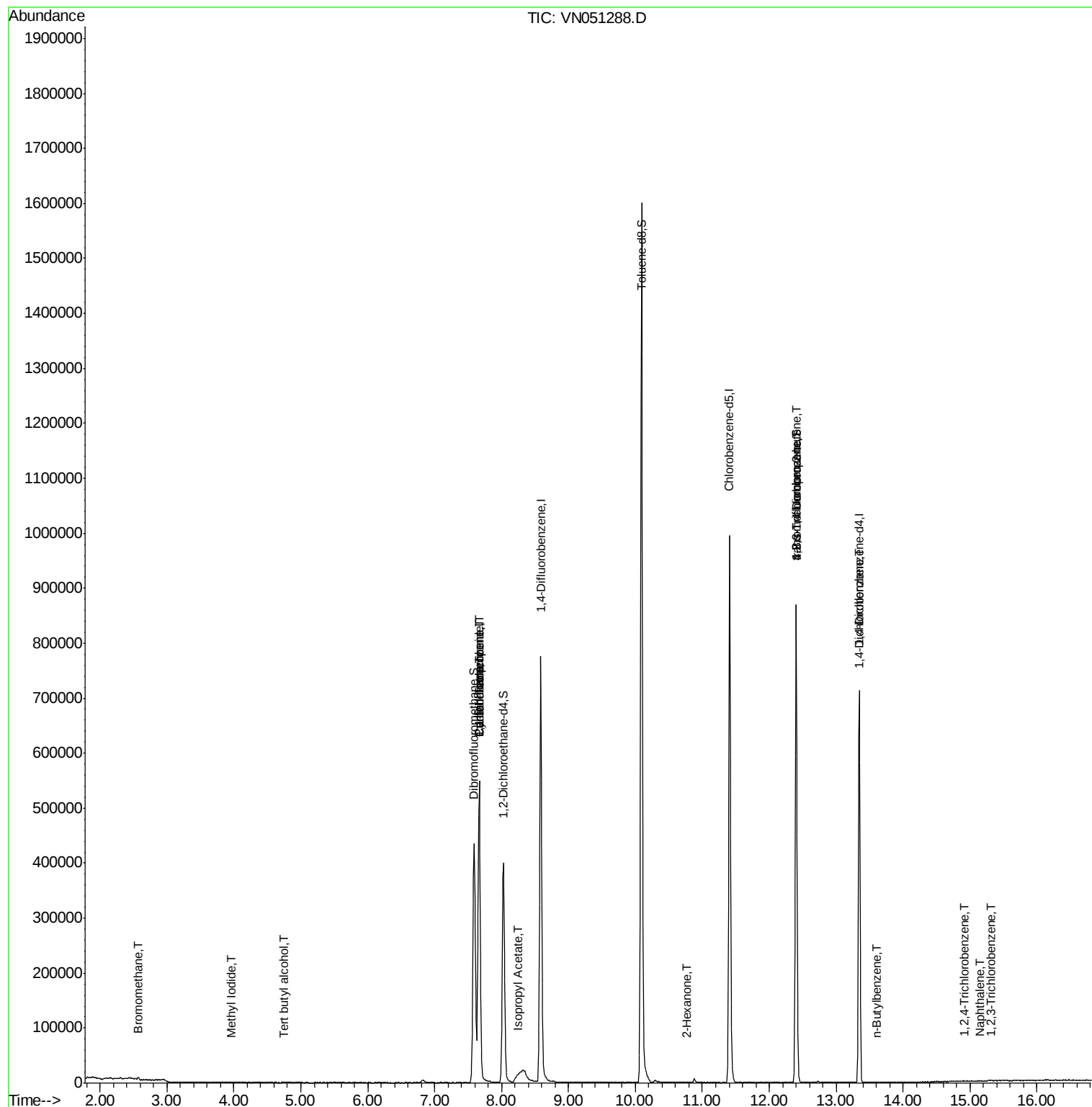
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	491776	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	744342	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	648760	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	212838	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	349716	65.43	ug/l	0.00
Spiked Amount	50.000		Recovery	=	130.86%	
35) Dibromofluoromethane	7.59	113	342637	59.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	118.48%	
50) Toluene-d8	10.09	98	1215475	56.85	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.70%	
62) 4-Bromofluorobenzene	12.40	95	316579	46.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.10%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.06	50	1502	Below Cal		95
5) Bromomethane	2.58	94	2023	1.054 ug/l		98
10) Methyl Iodide	3.96	142	409	6.175 ug/l #		43
11) Tert butyl alcohol	4.75	59	185	0.629 ug/l #		73
16) Acetone	3.82	43	528	Below Cal	#	40
17) Carbon Disulfide	4.06	76	1443	Below Cal	#	75
18) Methyl Acetate	4.33	43	972	Below Cal	#	63
31) Cyclohexane	7.67	56	7656	0.821 ug/l #		1
36) 1,1-Dichloropropene	7.66	75	30576	3.795 ug/l #		48
38) Carbon Tetrachloride	7.66	117	42021	5.001 ug/l #		16
43) Isopropyl Acetate	8.23	43	9865	1.376 ug/l #		58
59) 2-Hexanone	10.76	43	626	0.257 ug/l #		22
76) 1,2,3-Trichloropropane	12.40	75	145468	50.000 ug/l #		100
77) Bromobenzene	12.53	156	62	Below Cal	#	1
81) trans-1,4-Dichloro-2-buten	12.40	75	145468	151.800 ug/l #		15
88) 1,4-Dichlorobenzene	13.36	146	462	0.472 ug/l #		1
89) n-Butylbenzene	13.61	91	165	2.032 ug/l #		34
91) 1,2-Dichlorobenzene	13.65	146	175	Below Cal	#	25
93) 1,2,4-Trichlorobenzene	14.92	180	110	5.060 ug/l #		1
95) Naphthalene	15.13	128	488	5.989 ug/l #		69
96) 1,2,3-Trichlorobenzene	15.31	180	63	3.880 ug/l #		30

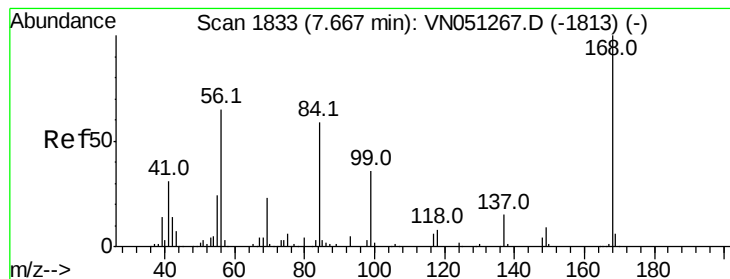
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

Instrument :

MSVOA_N

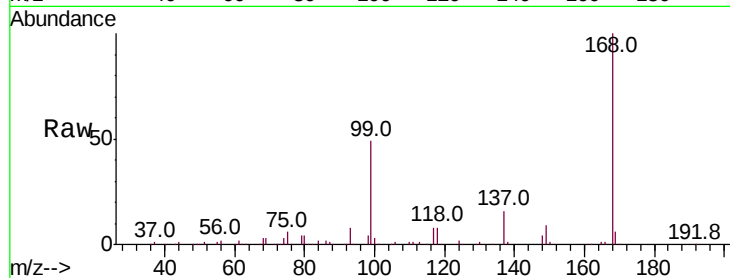
ClientSampled :

Tot Ion:168 Resp: 491776

Ion Ratio Lower Upper

168 100

99 48.5 38.2 57.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

200000

150000

100000

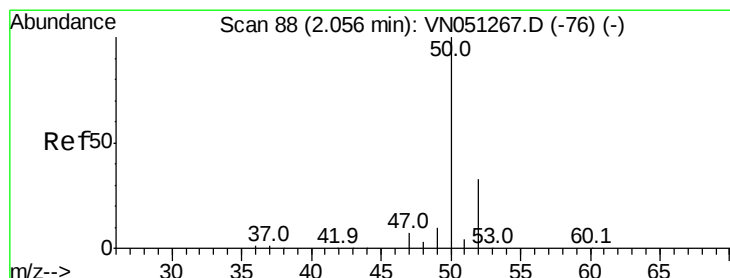
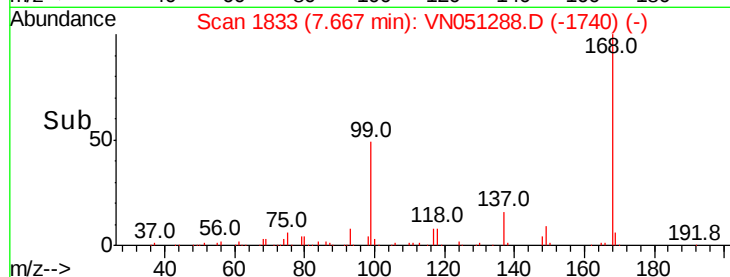
50000

0

7.60

7.70

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051288.D

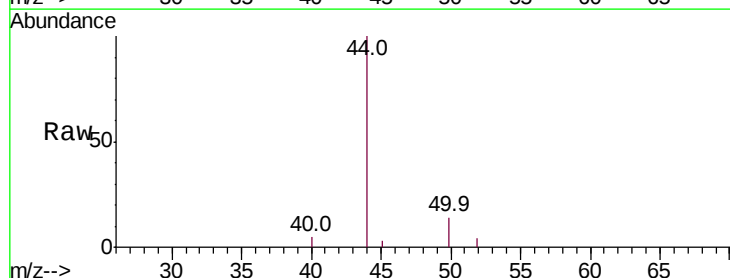
Acq: 18 Sep 2018 10:46

Tgt Ion: 50 Resp: 1502

Ion Ratio Lower Upper

50 100

52 30.5 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

1000

800

600

400

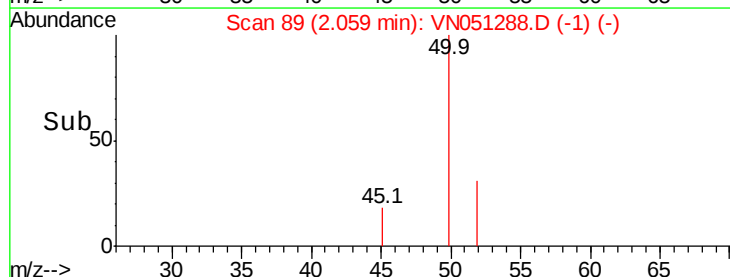
200

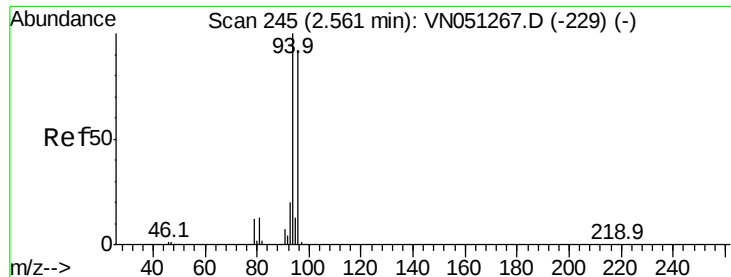
0

2.05

2.10

Time-->





#5

Bromomethane

Concen: 1.054 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.02 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

Instrument :

MSVOA_N

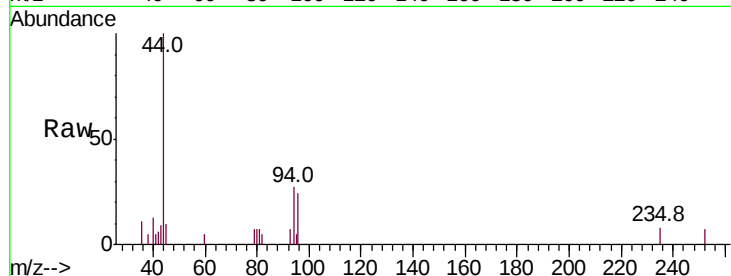
ClientSampled :

Tot Ion: 94 Resp: 2023

Ion Ratio Lower Upper

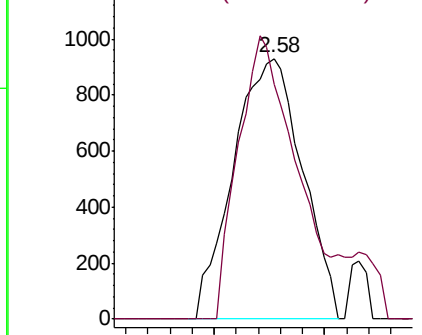
94 100

96 90.0 73.8 110.8

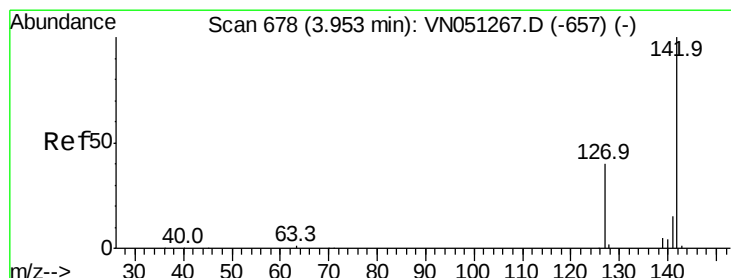
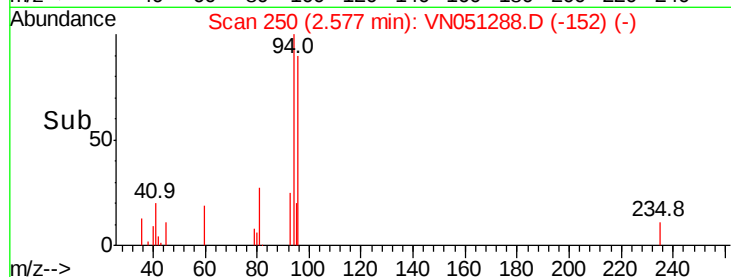


Abundance Ion 93.90 (93.60 to 94.60): VN051267.D (-229) (-)

Ion 95.90 (95.60 to 96.60): VN051267.D (-229) (-)



Time-->



#10

Methyl Iodide

Concen: 6.175 ug/l

RT: 3.96 min Scan# 680

Delta R.T. 0.01 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

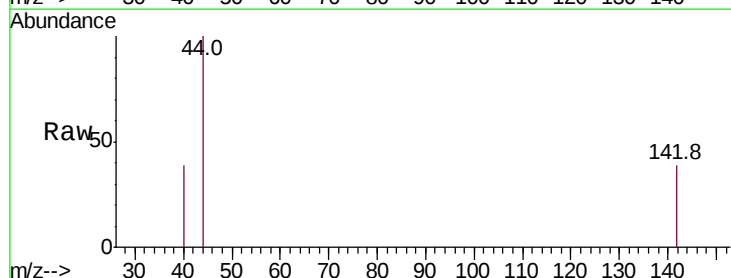
Tgt Ion: 142 Resp: 409

Ion Ratio Lower Upper

142 100

127 0.0 31.7 47.5#

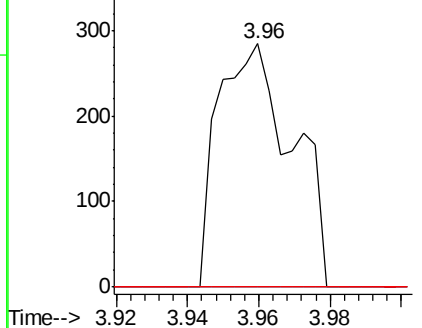
141 0.0 11.6 17.4#



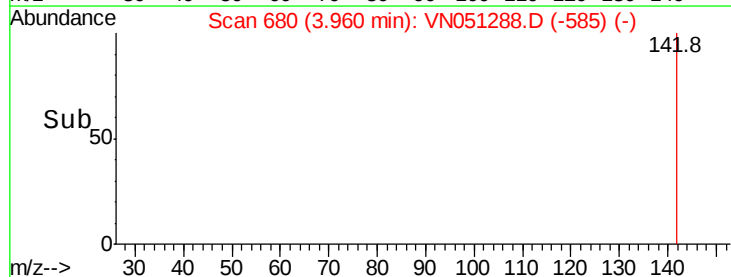
Abundance Ion 141.80 (141.50 to 142.50): VN051267.D (-657) (-)

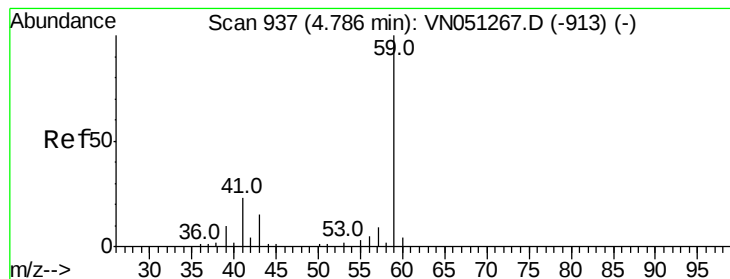
Ion 126.80 (126.50 to 127.50): VN051267.D (-657) (-)

Ion 140.80 (140.50 to 141.50): VN051267.D (-657) (-)



Time-->



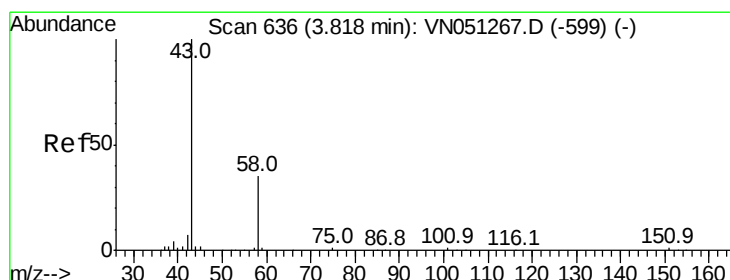
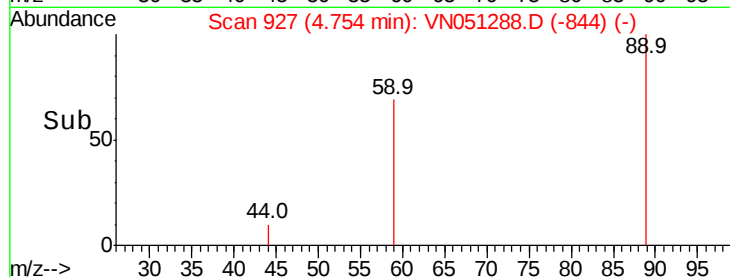
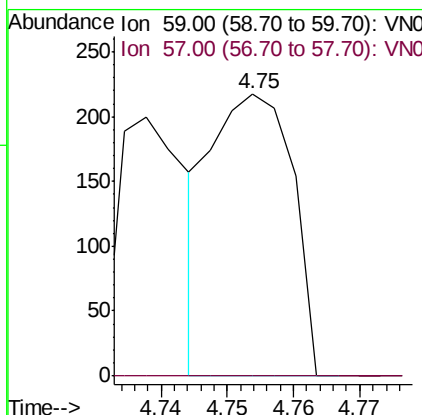
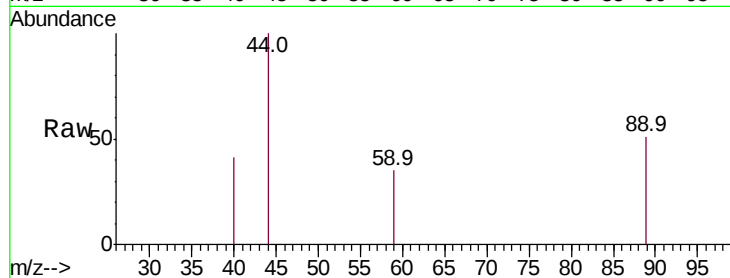


#11

Tert butyl alcohol
 Concen: 0.629 ug/l
 RT: 4.75 min Scan# 927
 Delta R.T. -0.03 min
 Lab File: VN051288.D
 Acq: 18 Sep 2018 10:46

Instrument :
 MSVOA_N
 ClientSampleId :

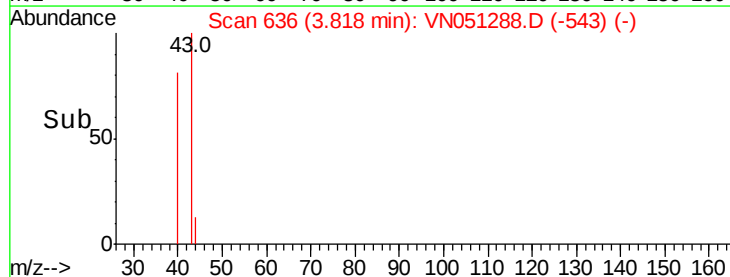
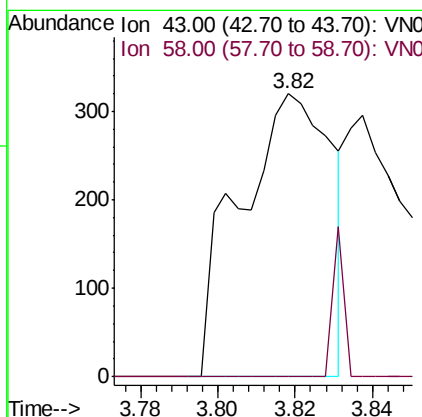
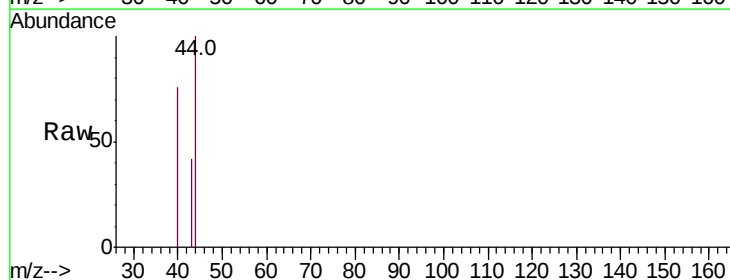
Tot Ion: 59 Resp: 185
 Ion Ratio Lower Upper
 59 100
 57 0.0 7.9 11.9#

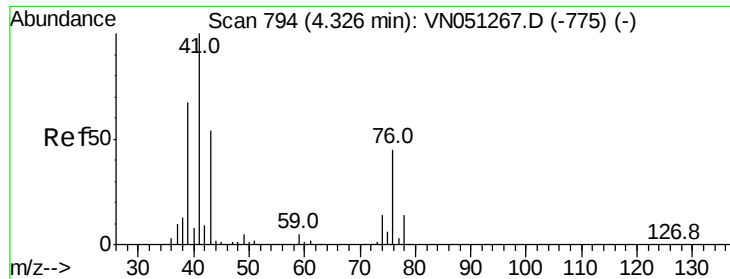


#16

Acetone
 Concen: Below Cal
 RT: 3.82 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: VN051288.D
 Acq: 18 Sep 2018 10:46

Tgt Ion: 43 Resp: 528
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.2 42.2#

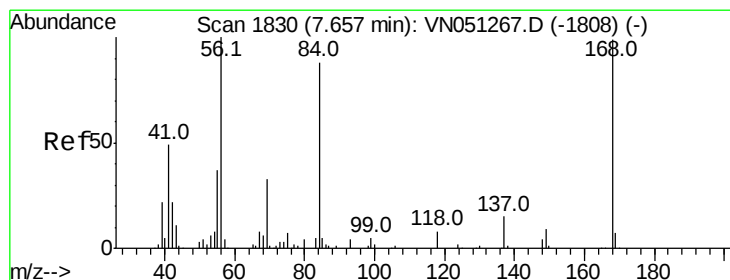
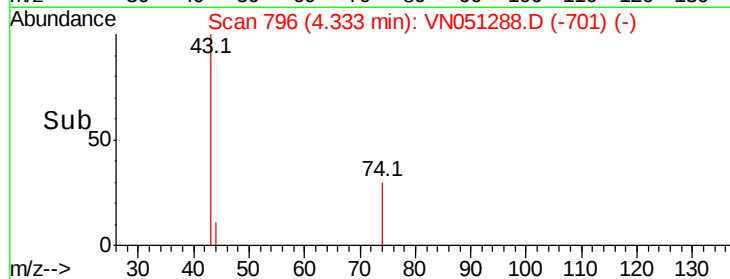
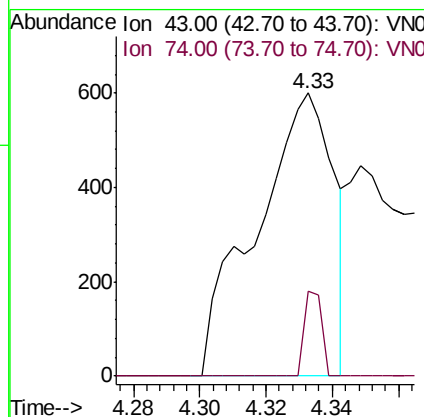
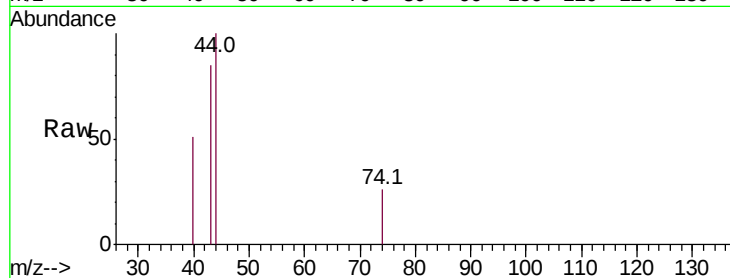




#18
Methvl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051288.D
Acq: 18 Sep 2018 10:46

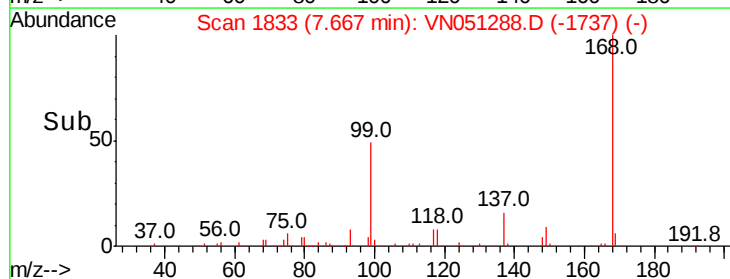
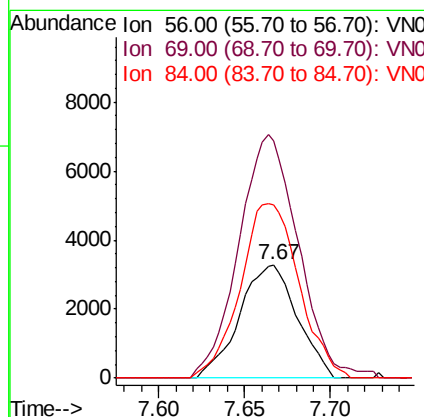
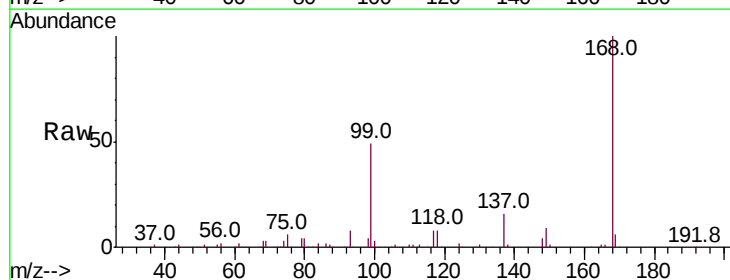
Instrument :
MSVOA_N
ClientSampleId :

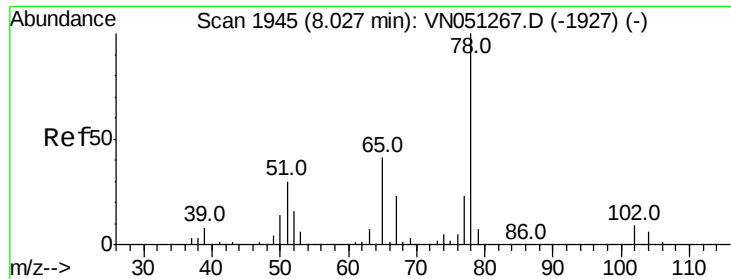
Tot Ion: 43 Resp: 972
Ion Ratio Lower Upper
43 100
74 7.0 20.8 31.2#



#31
Cyclohexane
Concen: 0.821 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN051288.D
Acq: 18 Sep 2018 10:46

Tgt Ion: 56 Resp: 7656
Ion Ratio Lower Upper
56 100
69 208.8 26.2 39.2#
84 152.3 70.6 106.0#

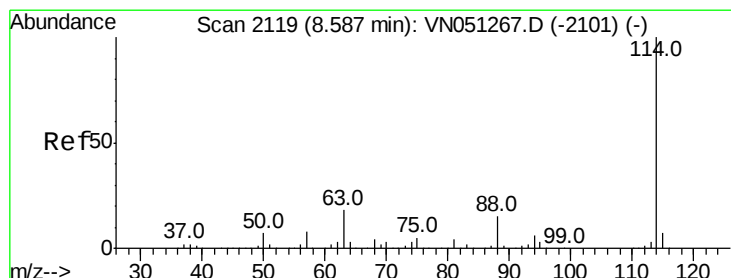
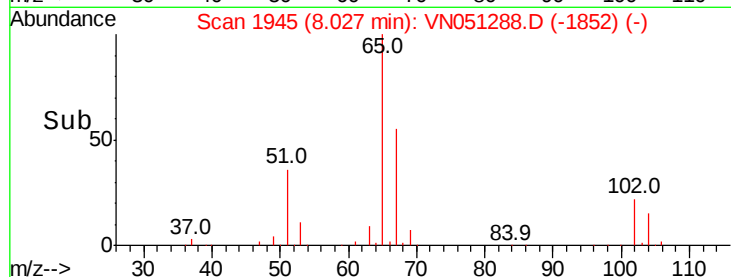
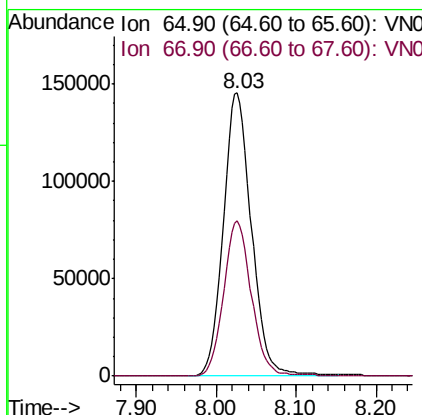
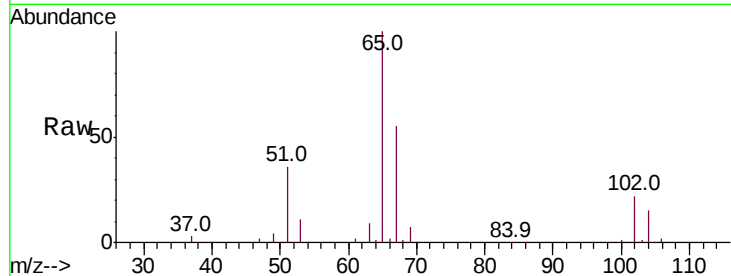




#33
 1,2-Dichloroethane-d4
 Concen: 65.434 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051288.D
 Acq: 18 Sep 2018 10:46

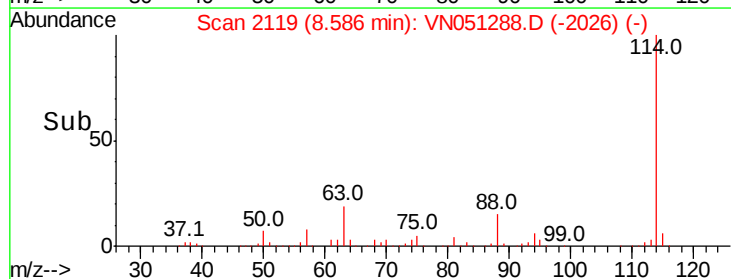
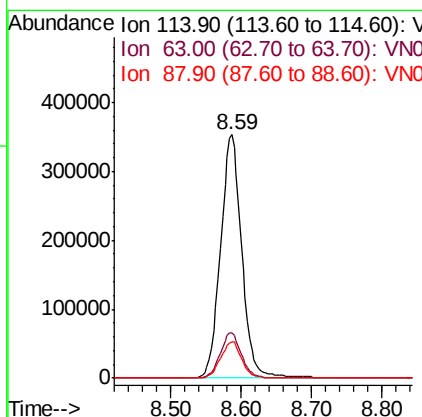
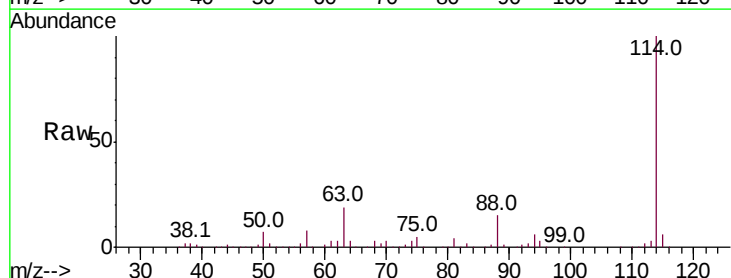
Instrument :
 MSVOA_N
 ClientSampleId :

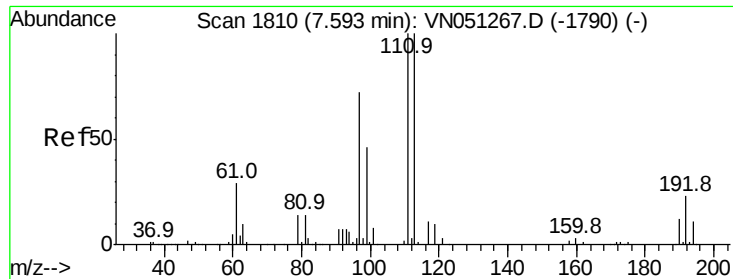
Tot Ion: 65 Resp: 349716
 Ion Ratio Lower Upper
 65 100
 67 54.1 0.0 111.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051288.D
 Acq: 18 Sep 2018 10:46

Tgt Ion:114 Resp: 744342
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 36.8
 88 15.1 0.0 30.8

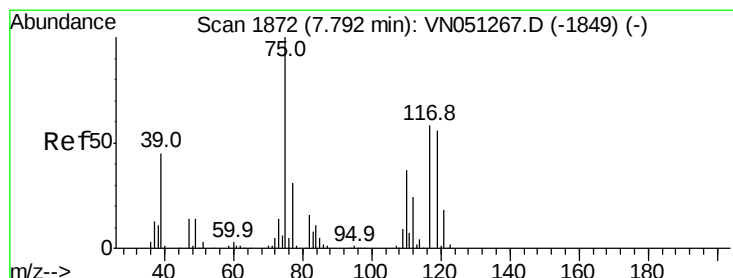
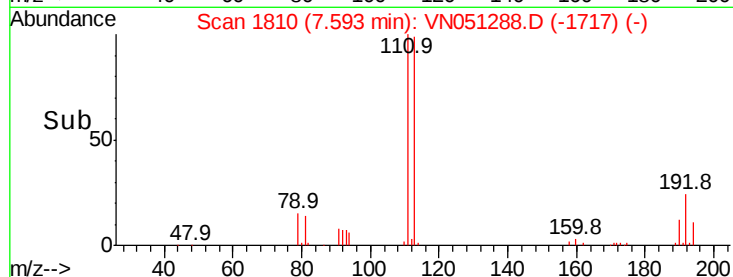
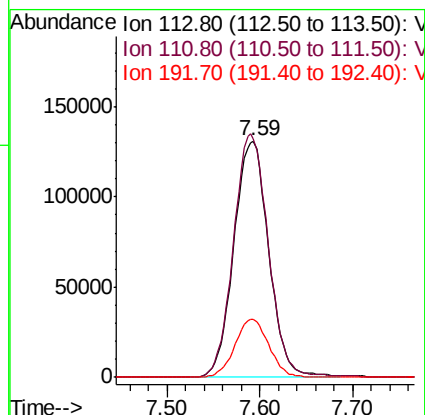
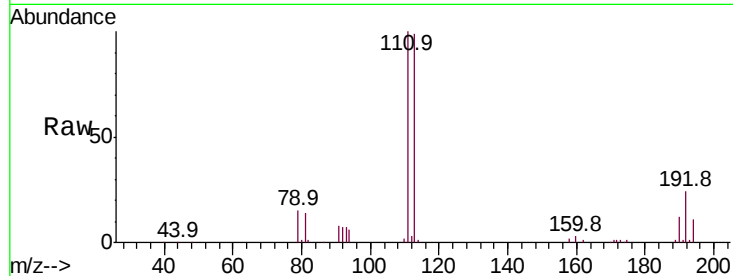




#35
Dibromofluoromethane
Concen: 59.237 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. -0.00 min
Lab File: VN051288.D
Acq: 18 Sep 2018 10:46

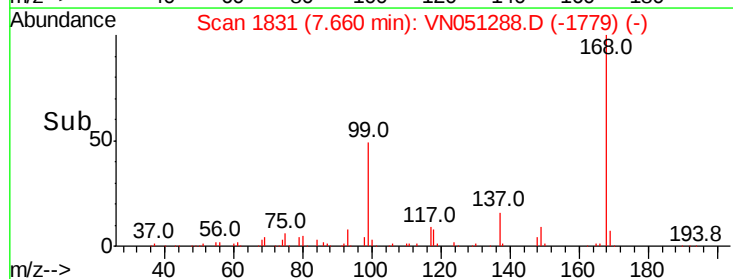
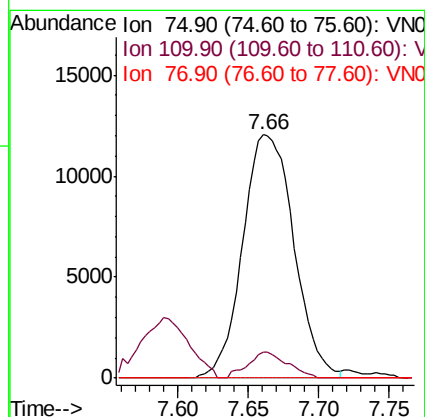
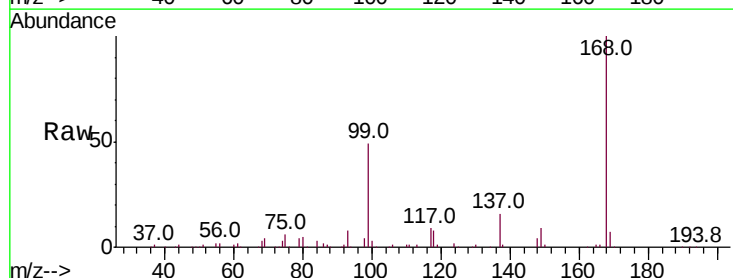
Instrument :
MSVOA_N
ClientSampleId :

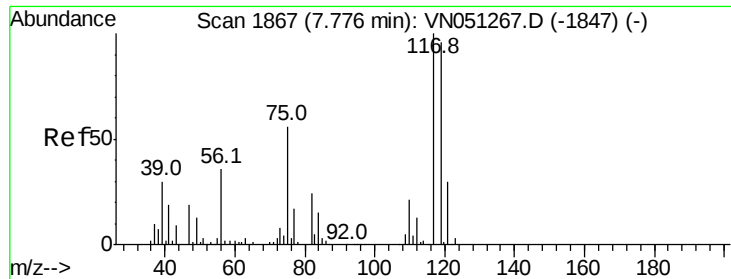
Tot Ion:113 Resp: 342637
Ion Ratio Lower Upper
113 100
111 102.7 82.2 123.4
192 23.8 19.0 28.6



#36
1,1-Dichloropropene
Concen: 3.795 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. -0.13 min
Lab File: VN051288.D
Acq: 18 Sep 2018 10:46

Tgt Ion: 75 Resp: 30576
Ion Ratio Lower Upper
75 100
110 8.3 18.6 56.0#
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 5.001 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

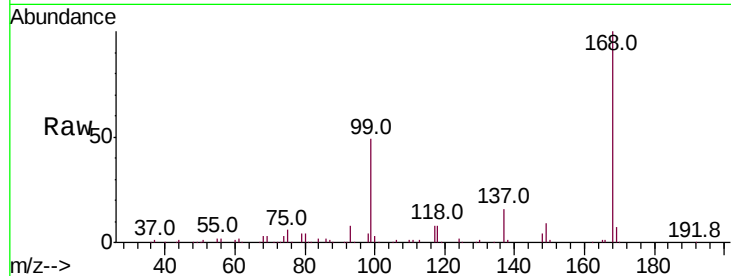
Tot Ion:117 Resp: 42021

Ion Ratio Lower Upper

117 100

119 5.8 76.8 115.2#

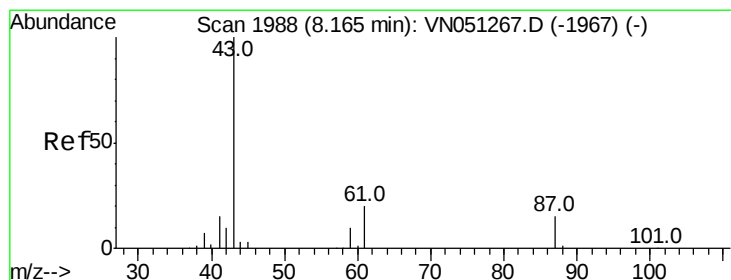
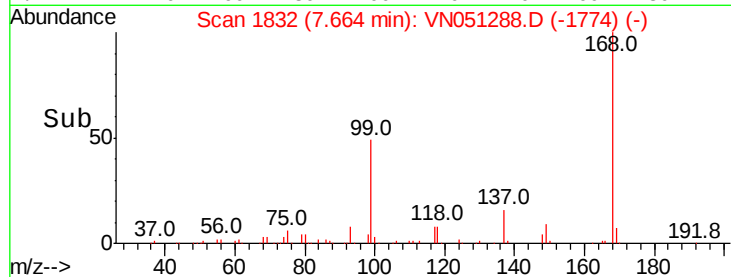
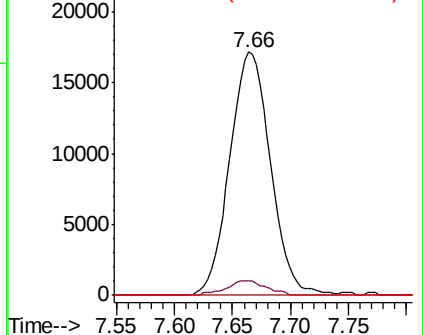
121 0.0 24.2 36.2#



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



#43

Isopropyl Acetate

Concen: 1.376 ug/l

RT: 8.23 min Scan# 2009

Delta R.T. 0.07 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

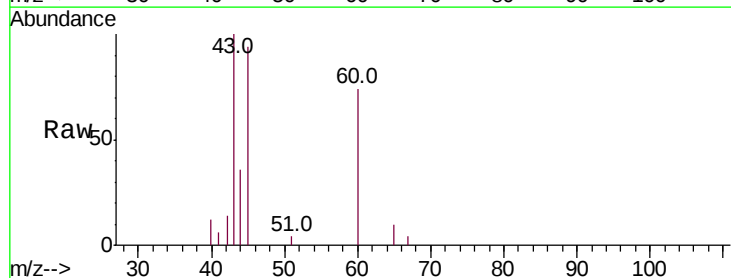
Tgt Ion: 43 Resp: 9865

Ion Ratio Lower Upper

43 100

61 0.0 17.4 26.2#

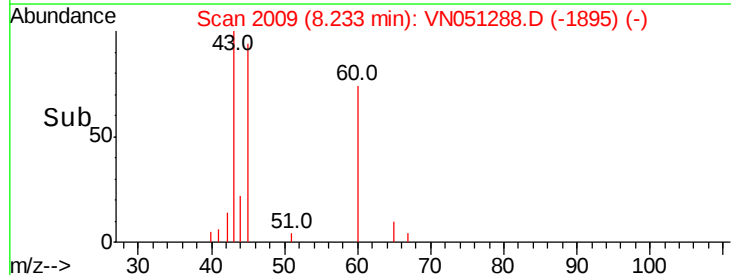
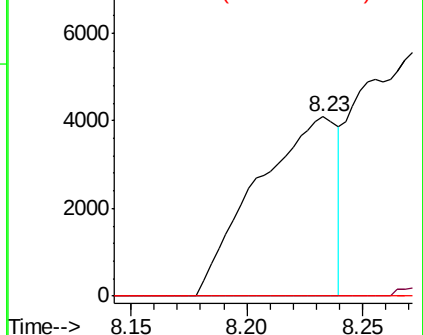
87 0.0 12.2 18.4#

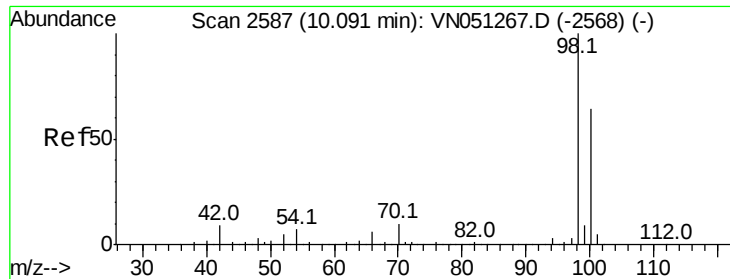


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 56.851 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

Instrument :

MSVOA_N

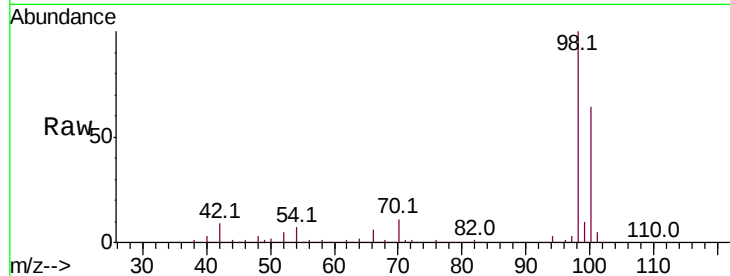
ClientSampleId :

Tot Ion: 98 Resp: 1215475

Ion Ratio Lower Upper

98 100

100 63.9 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN051267.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN051267.D (-2568) (-)

10.09

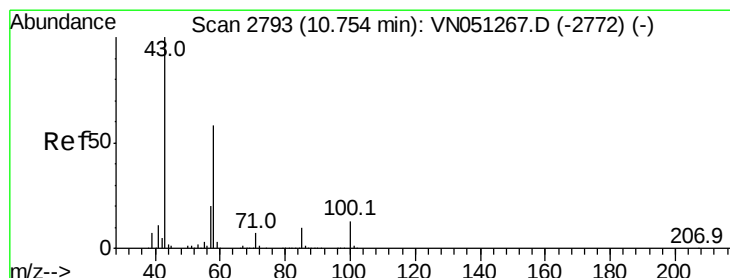
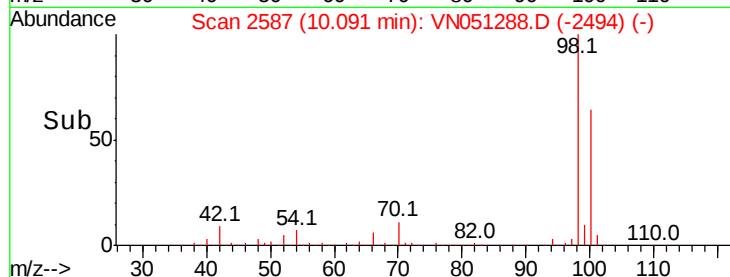
600000

400000

200000

0

Time-->



#59

2-Hexanone

Concen: 0.257 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN051288.D

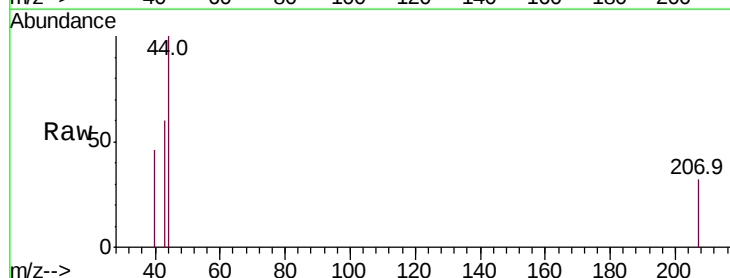
Acq: 18 Sep 2018 10:46

Tgt Ion: 43 Resp: 626

Ion Ratio Lower Upper

43 100

58 0.0 28.9 86.8#



Abundance Ion 43.00 (42.70 to 43.70): VN051267.D (-2772) (-)

Ion 58.00 (57.70 to 58.70): VN051267.D (-2772) (-)

10.76

400

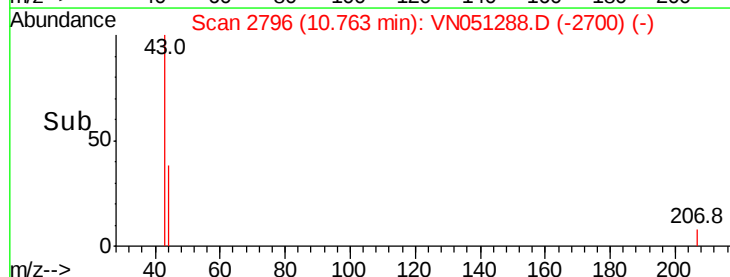
300

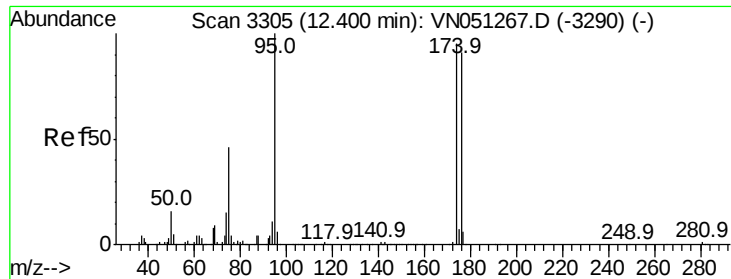
200

100

0

Time-->

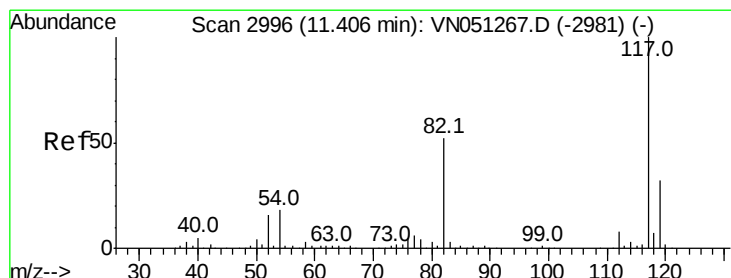
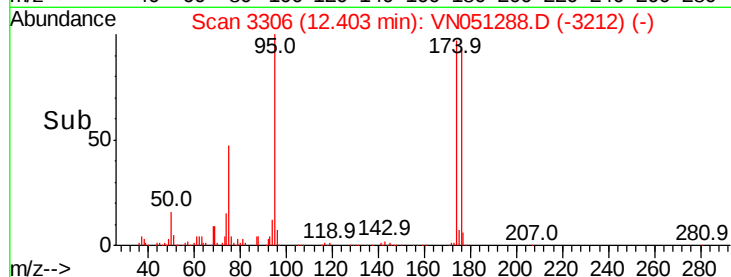
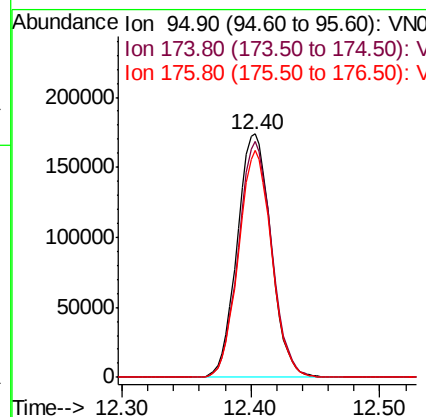
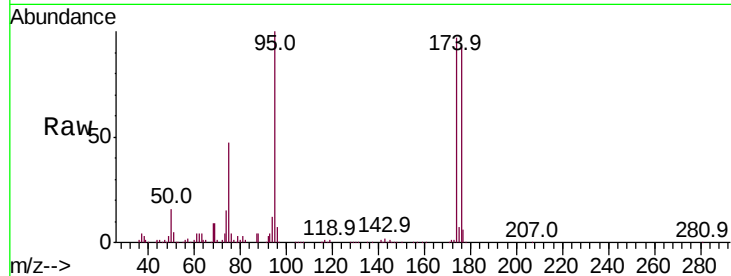




#62
4-Bromofluorobenzene
Concen: 46.553 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051288.D
Acq: 18 Sep 2018 10:46

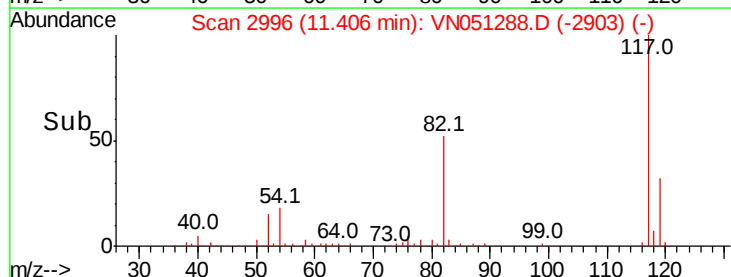
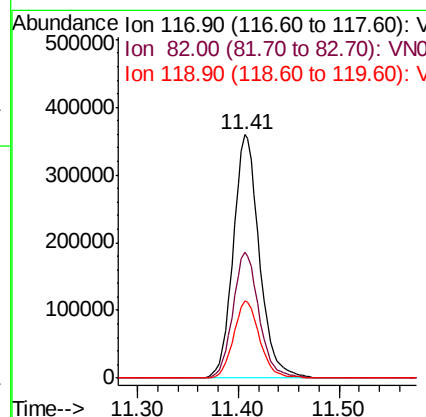
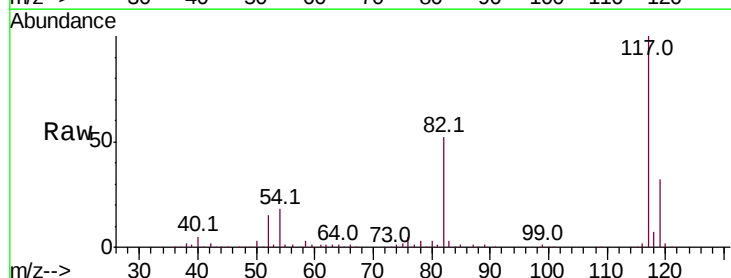
Instrument :
MSVOA_N
ClientSampleId :

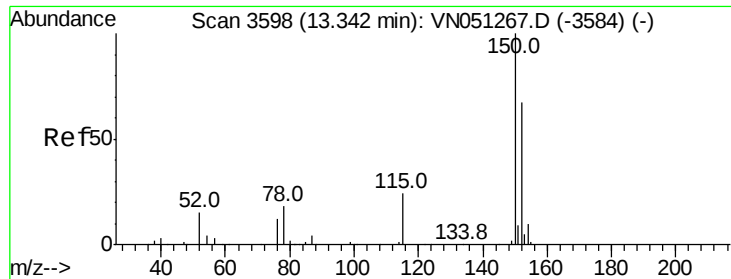
Tot Ion: 95 Resp: 316579
Ion Ratio Lower Upper
95 100
174 95.5 0.0 189.6
176 91.4 0.0 182.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051288.D
Acq: 18 Sep 2018 10:46

Tgt Ion: 117 Resp: 648760
Ion Ratio Lower Upper
117 100
82 51.5 41.8 62.8
119 31.5 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

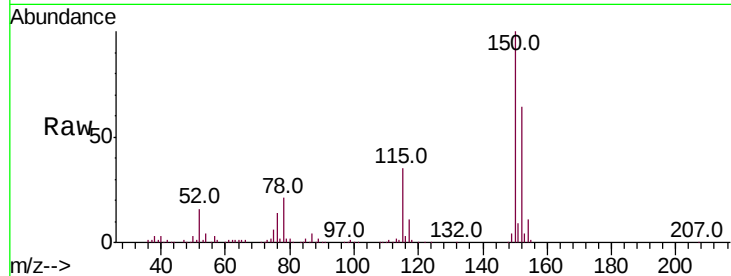
Tot Ion:152 Resp: 212838

Ion Ratio Lower Upper

152 100

115 55.1 27.1 81.2

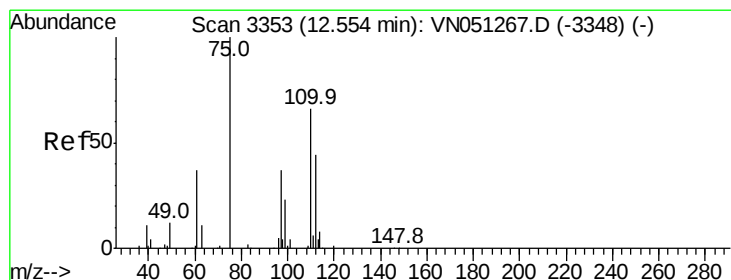
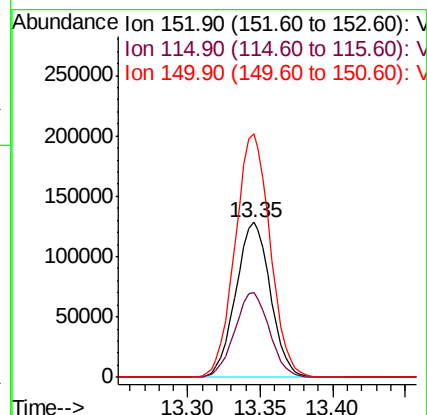
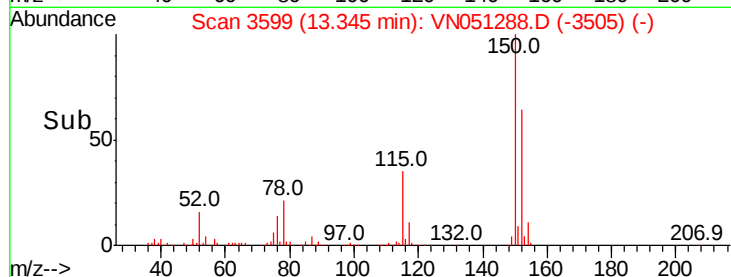
150 158.7 0.0 349.0



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: 50.000 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051288.D

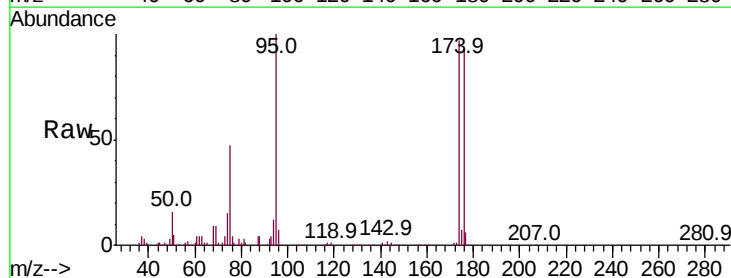
Acq: 18 Sep 2018 10:46

Tgt Ion: 75 Resp: 145468

Ion Ratio Lower Upper

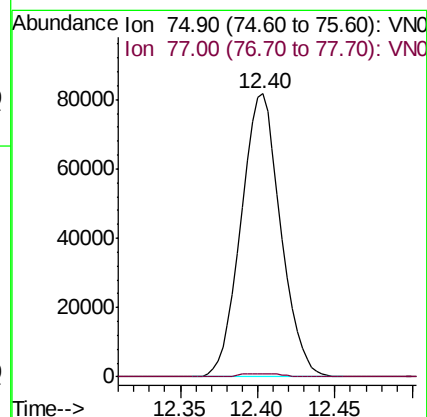
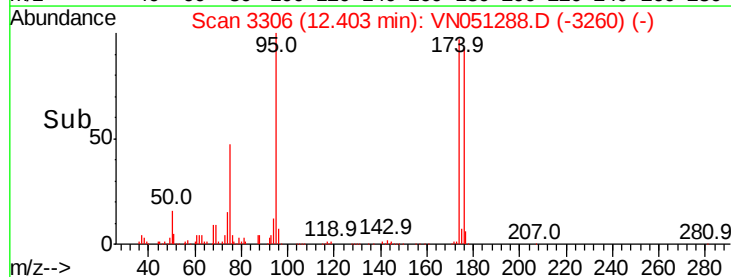
75 100

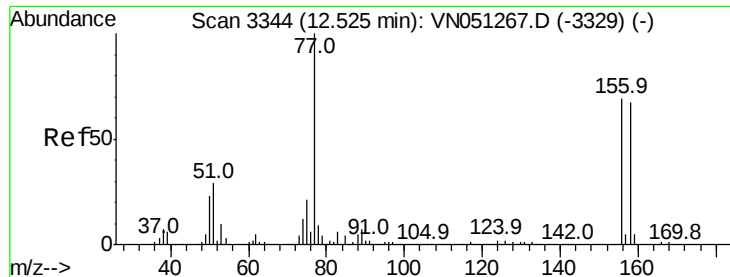
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: Below Cal

RT: 12.53 min Scan# 3347

Delta R.T. 0.01 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

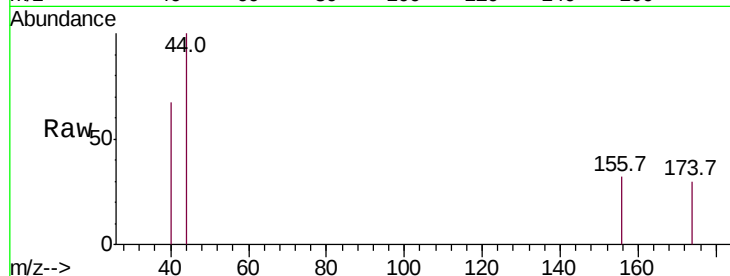
Tot Ion:156 Resp: 62

Ion Ratio Lower Upper

156 100

77 0.0 83.7 251.1#

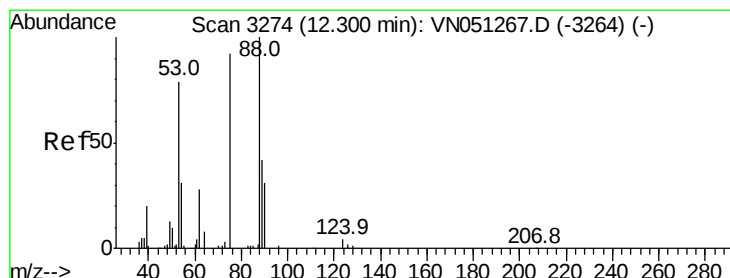
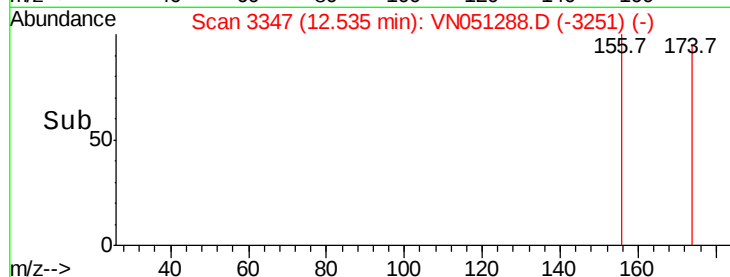
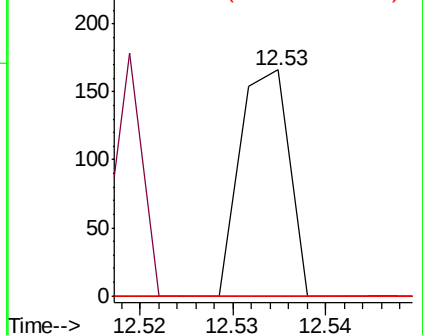
158 0.0 49.0 147.2#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VNO

Ion 157.80 (157.50 to 158.50): V



#81

trans-1,4-Dichloro-2-butene

Concen: 151.800 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

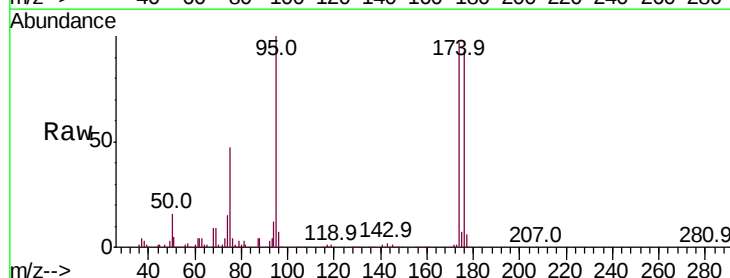
Tgt Ion: 75 Resp: 145468

Ion Ratio Lower Upper

75 100

53 0.1 67.7 101.5#

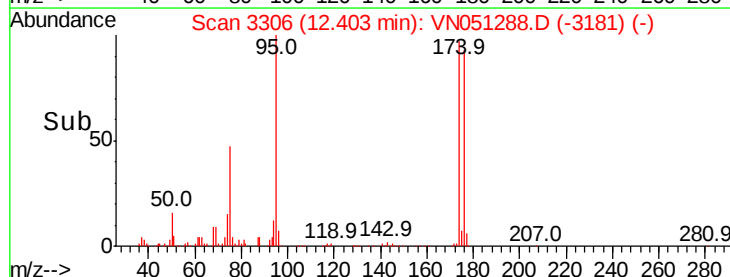
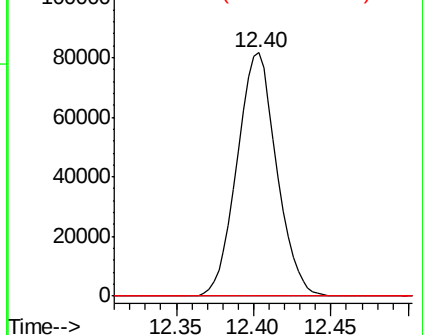
89 0.0 36.9 55.3#

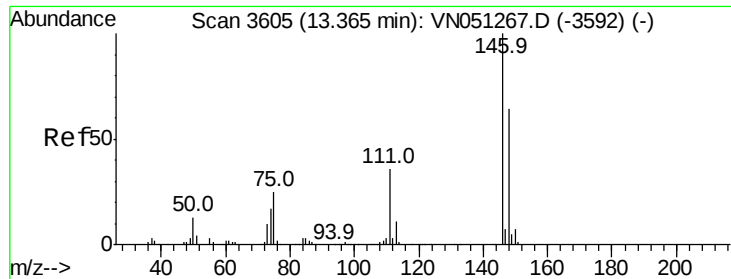


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#88

1,4-Dichlorobenzene

Concen: 0.472 ug/l

RT: 13.36 min Scan# 3603

Delta R.T. -0.01 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

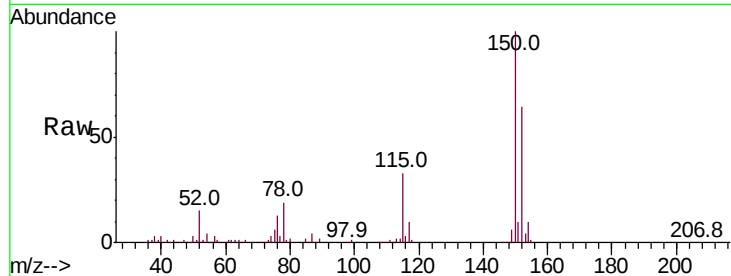
Tot Ion:146 Resp: 462

Ion Ratio Lower Upper

146 100

111 554.5 18.2 54.6#

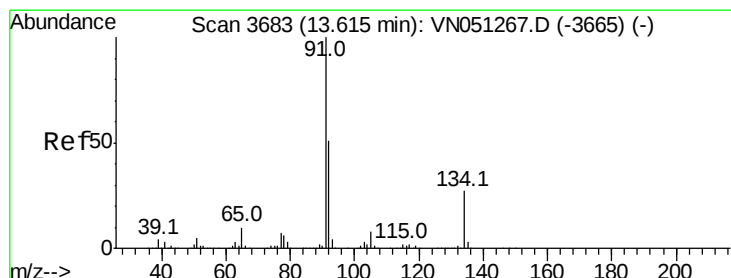
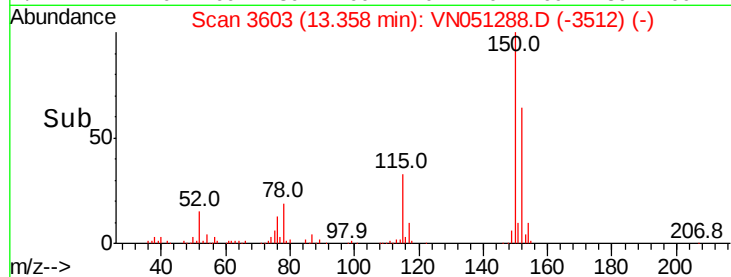
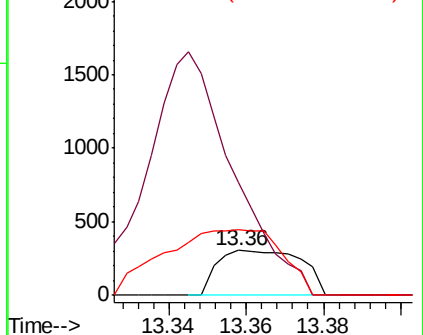
148 205.4 31.9 95.7#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#89

n-Butylbenzene

Concen: 2.032 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

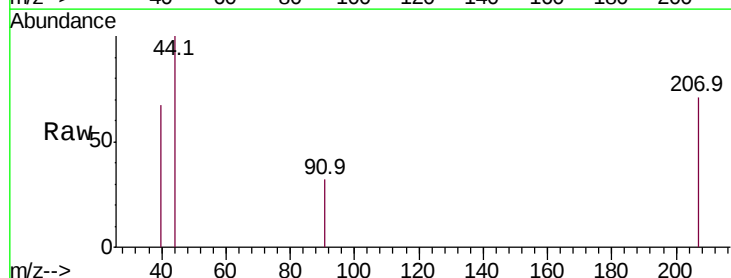
Tgt Ion: 91 Resp: 165

Ion Ratio Lower Upper

91 100

92 0.0 25.8 77.4#

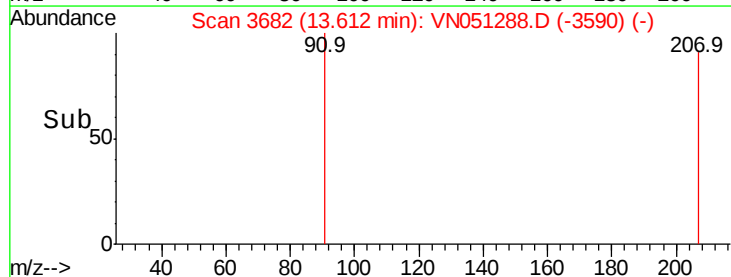
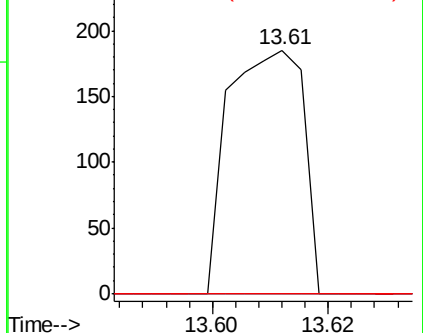
134 0.0 13.7 41.0#

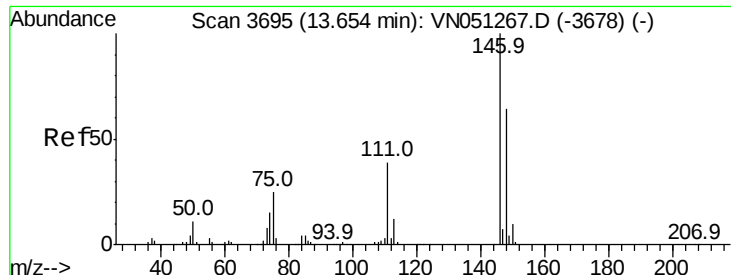


Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V

Ion 134.00 (133.70 to 134.70): V





#91

1,2-Dichlorobenzene

Concen: Below Cal

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

Instrument :

MSVOA_N

ClientSampled :

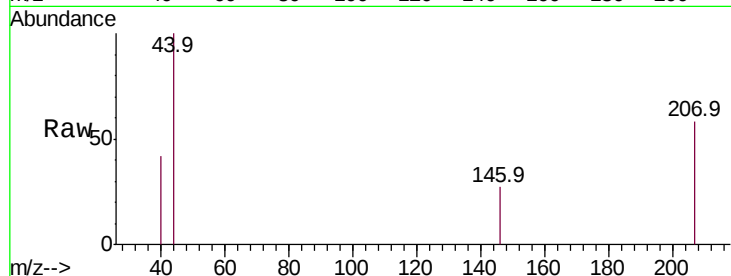
Tot Ion:146 Resp: 175

Ion Ratio Lower Upper

146 100

111 0.0 19.6 58.7#

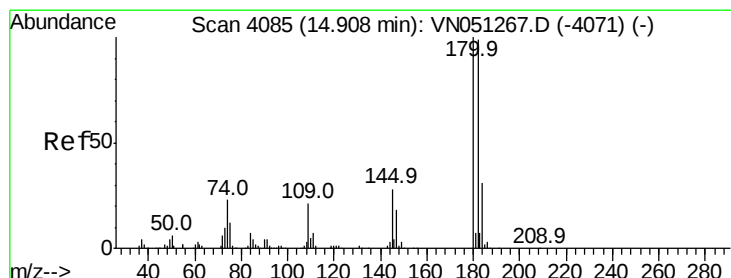
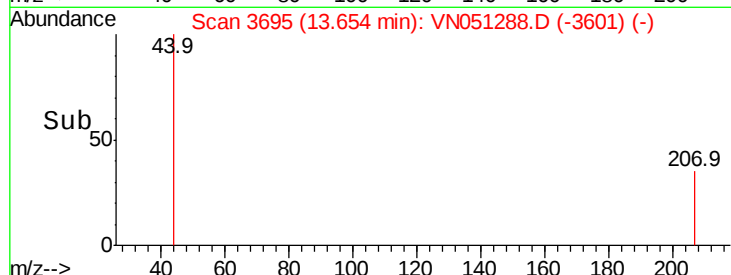
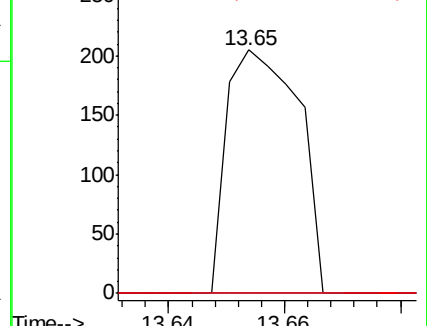
148 0.0 31.9 95.9#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#93

1,2,4-Trichlorobenzene

Concen: 5.060 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.01 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

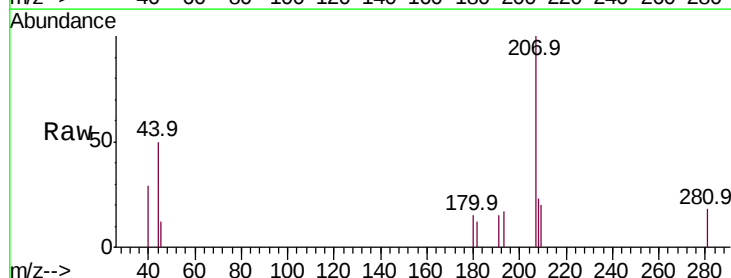
Tgt Ion:180 Resp: 110

Ion Ratio Lower Upper

180 100

182 213.6 48.5 145.6#

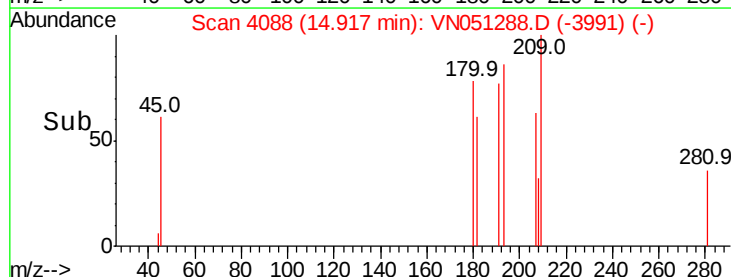
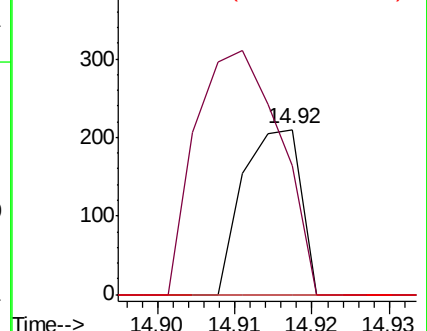
145 0.0 14.0 41.9#

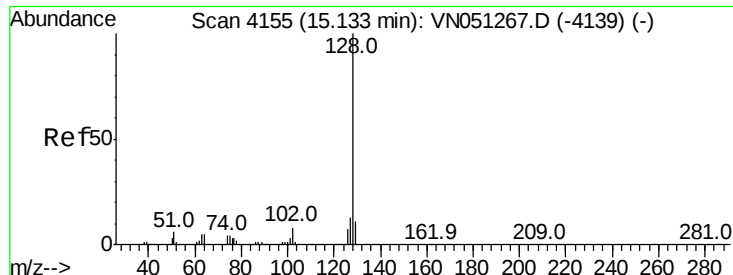


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 5.989 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

Instrument :

MSVOA_N

ClientSampleId :

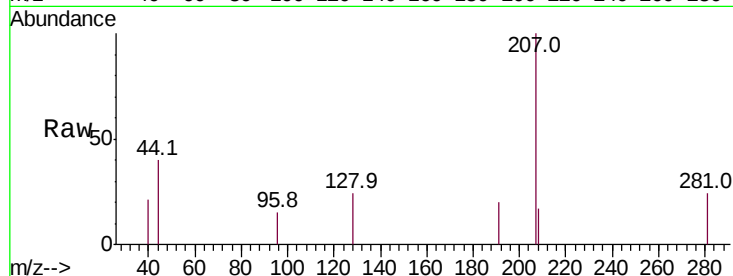
Tot Ion:128 Resp: 488

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.9 13.3#



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

15.13

400

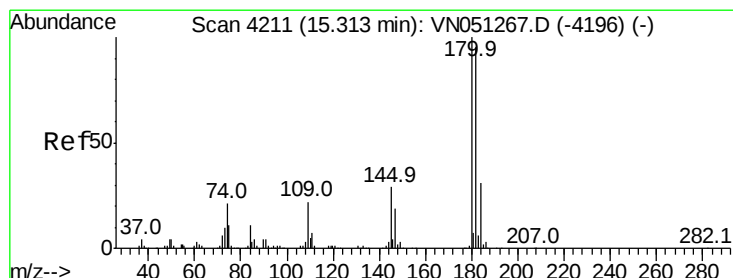
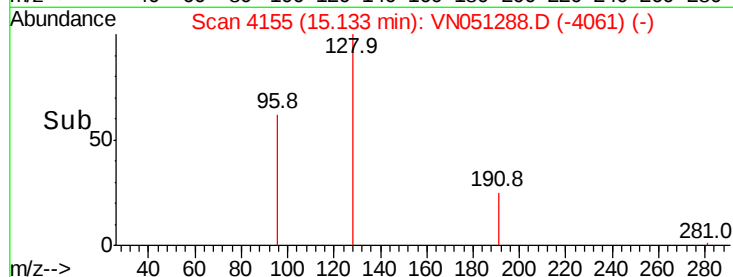
300

200

100

0

Time--> 15.10 15.12 15.14 15.16



#96

1,2,3-Trichlorobenzene

Concen: 3.880 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN051288.D

Acq: 18 Sep 2018 10:46

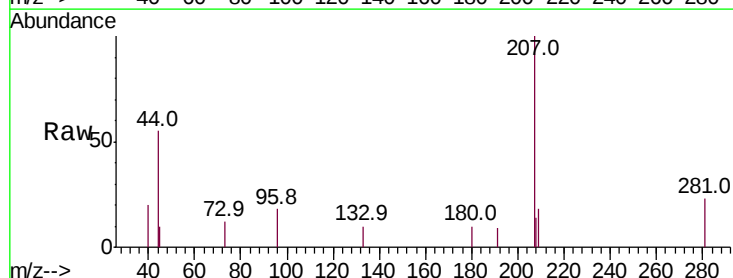
Tgt Ion:180 Resp: 63

Ion Ratio Lower Upper

180 100

182 168.3 47.5 142.6#

145 0.0 14.8 44.4#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

15.31

250

200

150

100

50

0

Time--> 15.30 15.31 15.32

