

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092218\
 Data File : VN051366.D
 Acq On : 21 Sep 2018 13:55
 Operator : MD\SY
 Sample : VN0922WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Quant Time: Sep 21 23:00:13 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092018W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 21 04:23:57 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	810244	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1169632	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1005326	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	369666	50.00	ug/l	0.00

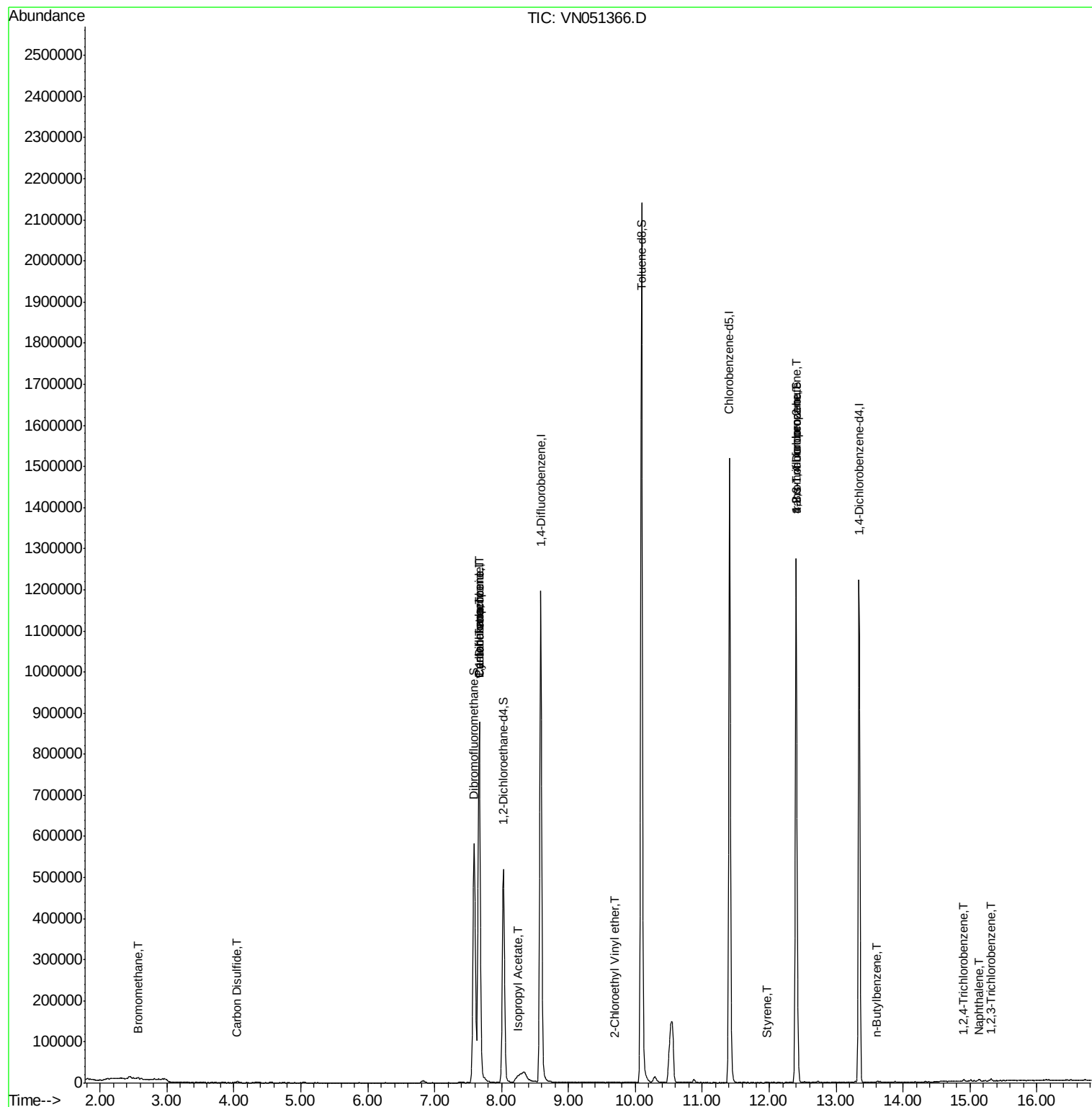
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	444457	50.61	ug/l	0.00
Spiked Amount						
			Recovery	=	101.22%	
35) Dibromofluoromethane	7.59	113	447878	47.38	ug/l	0.00
Spiked Amount						
			Recovery	=	94.76%	
50) Toluene-d8	10.09	98	1608824	44.28	ug/l	0.00
Spiked Amount						
			Recovery	=	88.56%	
62) 4-Bromofluorobenzene	12.40	95	431995	36.54	ug/l	0.00
Spiked Amount						
			Recovery	=	73.08%	

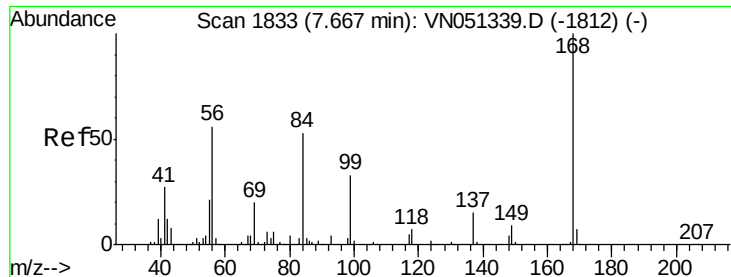
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1102	Below Cal	#	79
5) Bromomethane	2.57	94	1431	0.215	ug/l	95
16) Acetone	3.81	43	294	Below Cal	#	39
17) Carbon Disulfide	4.05	76	5643	0.247	ug/l #	76
18) Methyl Acetate	4.34	43	2830	Below Cal	#	74
31) Cyclohexane	7.67	56	12093	0.485	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47840	3.999	ug/l #	48
38) Carbon Tetrachloride	7.66	117	67900	5.246	ug/l #	17
43) Isopropyl Acetate	8.24	43	12934	1.247	ug/l #	57
58) 2-Chloroethyl Vinyl ether	9.70	63	96	8.573	ug/l #	45
70) Styrene	11.97	104	696	0.921	ug/l #	79
75) 1,1,2,2-Tetrachloroethane	12.50	83	301	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	200613	40.582	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	200613	121.671	ug/l #	14
89) n-Butylbenzene	13.61	91	785	1.467	ug/l #	60
93) 1,2,4-Trichlorobenzene	14.91	180	1732	4.325	ug/l #	92
95) Naphthalene	15.13	128	4101	5.613	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.31	180	2450	3.588	ug/l	97

(#) = 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# 1833

Delta R.T. 0.00 min

Lab File: VN051366.D

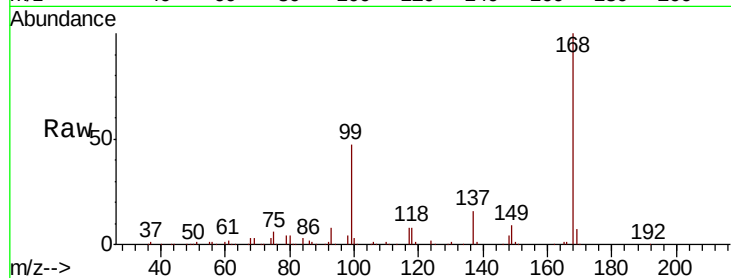
Acq: 21 Sep 2018 13:55

Tot Ion:168 Resp: 810244

Ion Ratio Lower Upper

168 100

99 47.2 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): VN051339.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN051339.D (-1812) (-)

7.67

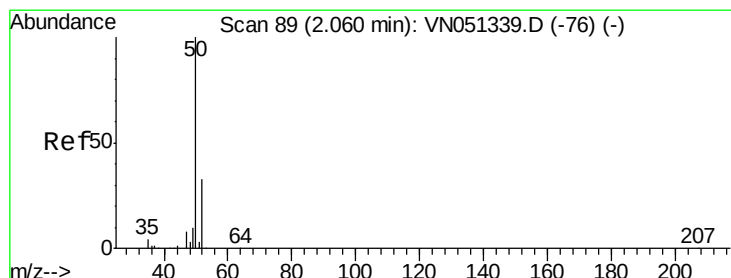
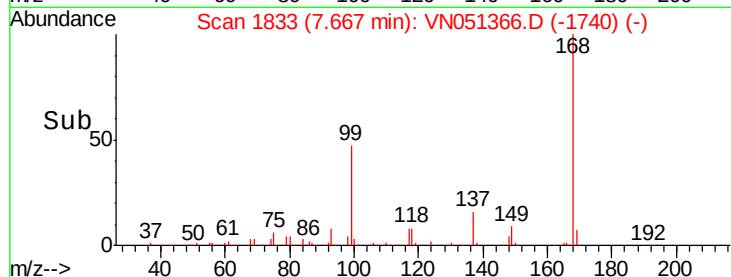
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051366.D

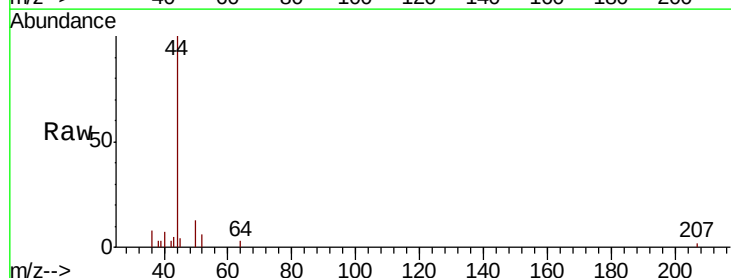
Acq: 21 Sep 2018 13:55

Tgt Ion: 50 Resp: 1102

Ion Ratio Lower Upper

50 100

52 45.2 26.7 40.1#



Abundance Ion 49.90 (49.60 to 50.60): VN051339.D (-76) (-)

Ion 51.90 (51.60 to 52.60): VN051339.D (-76) (-)

2.06

800

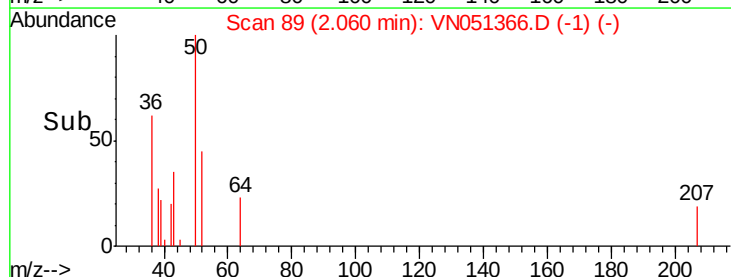
600

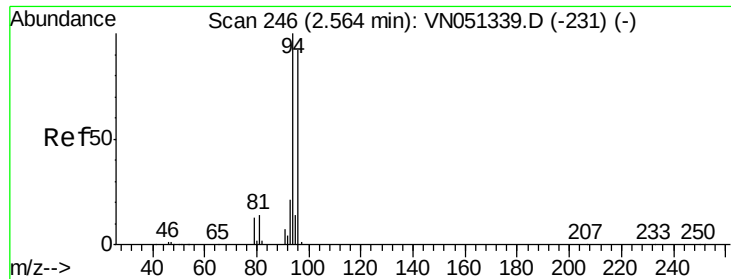
400

200

0

Time-->





#5

Bromomethane

Concen: 0.215 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051366.D

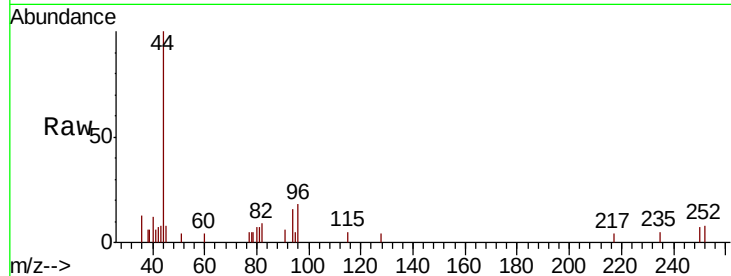
Acq: 21 Sep 2018 13:55

Tot Ion: 94 Resp: 1431

Ion Ratio Lower Upper

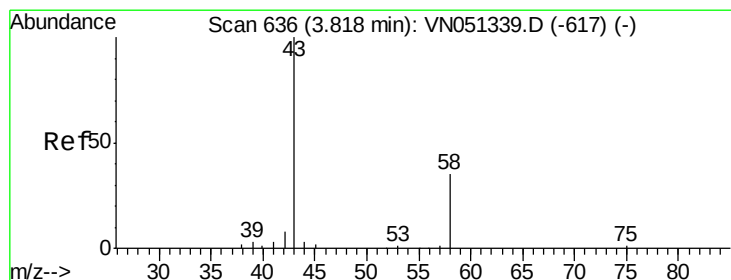
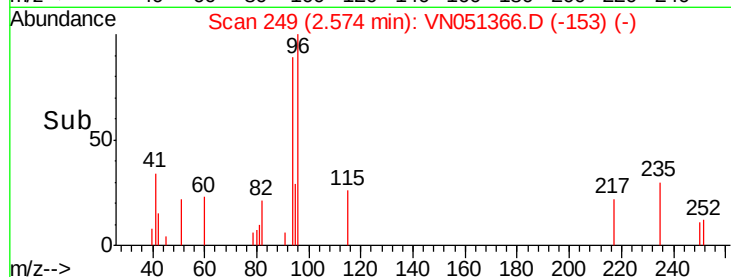
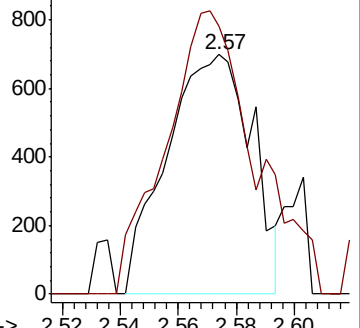
94 100

96 87.4 73.8 110.8



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#16

Acetone

Concen: Below Cal

RT: 3.81 min Scan# 634

Delta R.T. -0.01 min

Lab File: VN051366.D

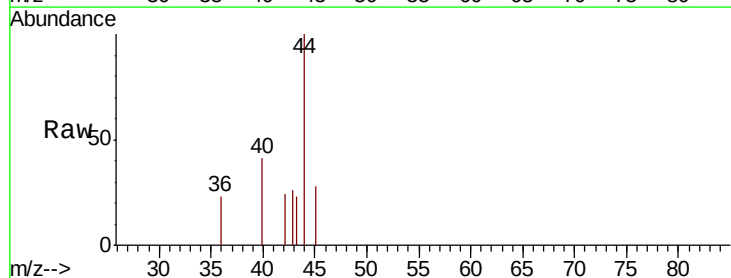
Acq: 21 Sep 2018 13:55

Tgt Ion: 43 Resp: 294

Ion Ratio Lower Upper

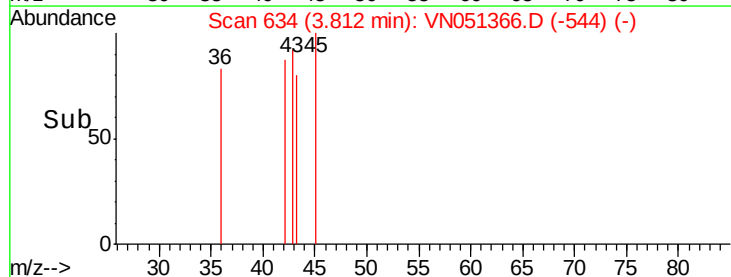
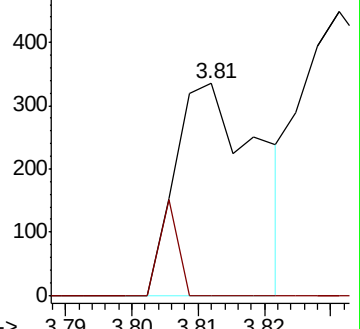
43 100

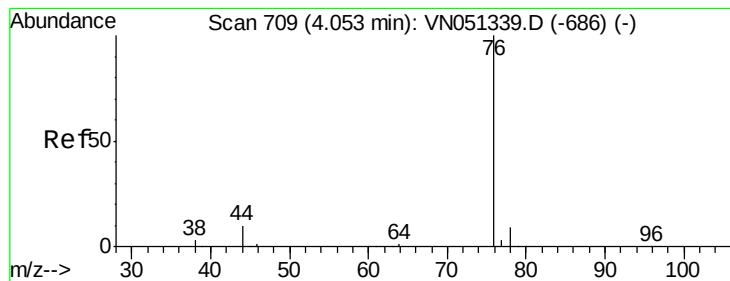
58 0.0 28.3 42.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.247 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.00 min

Lab File: VN051366.D

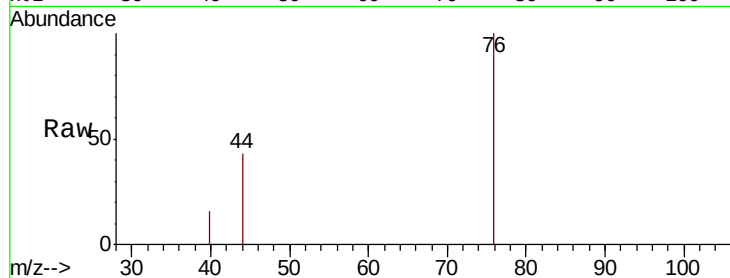
Acq: 21 Sep 2018 13:55

Tot Ion: 76 Resp: 5643

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.05

2500

2000

1500

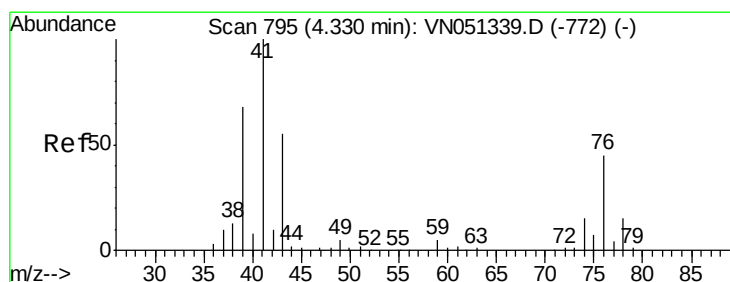
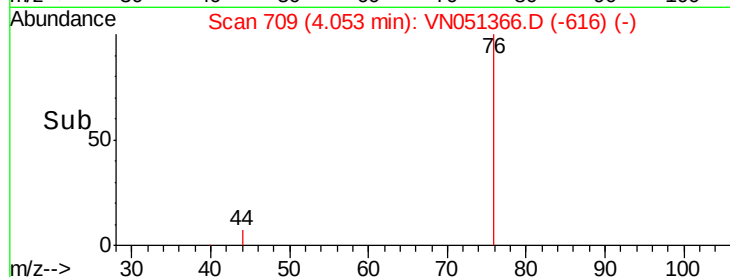
1000

500

0

4.00 4.05 4.10 4.15

Time-->



#18

Methyl Acetate

Concen: Below Cal

RT: 4.34 min Scan# 798

Delta R.T. 0.01 min

Lab File: VN051366.D

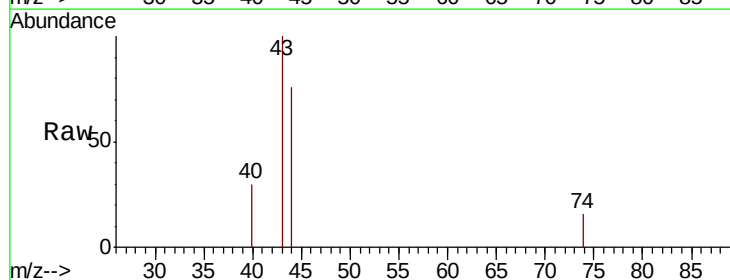
Acq: 21 Sep 2018 13:55

Tgt Ion: 43 Resp: 2830

Ion Ratio Lower Upper

43 100

74 13.8 21.7 32.5#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.34

1200

1000

800

600

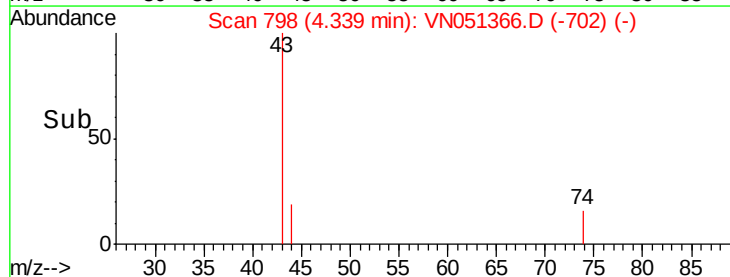
400

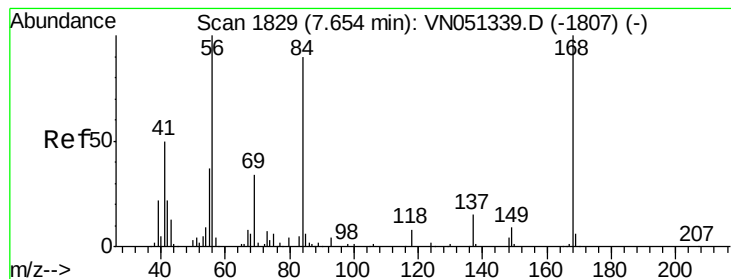
200

0

4.30 4.35 4.40

Time-->





#31

Cyclohexane

Concen: 0.485 ug/l

RT: 7.67 min Scan# 1833

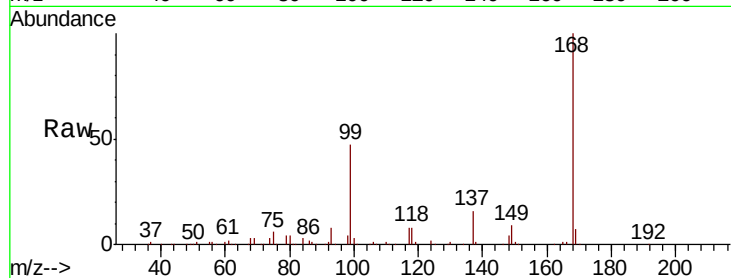
Delta R.T. 0.01 min

Lab File: VN051366.D

Acq: 21 Sep 2018 13:55

Tot Ion: 56 Resp: 12093

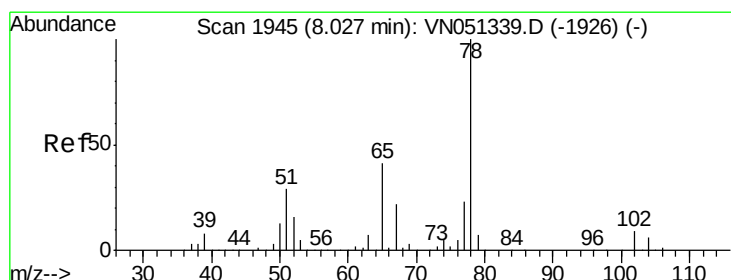
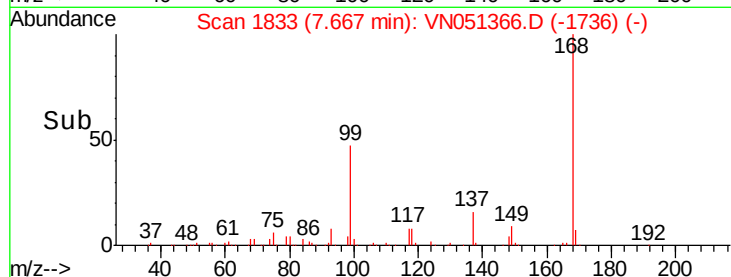
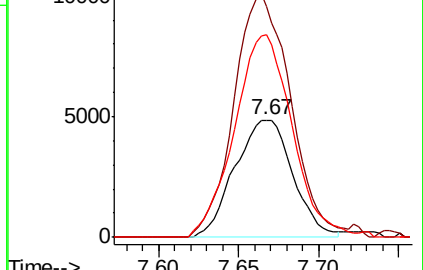
Ion	Ratio	Lower	Upper
56	100		
69	196.7	27.3	40.9#
84	172.5	72.2	108.2#



Abundance Ion 56.00 (55.70 to 56.70): VN051339.D (-1807) (-)

Ion 69.00 (68.70 to 69.70): VN051339.D (-1807) (-)

Ion 84.00 (83.70 to 84.70): VN051339.D (-1807) (-)



#33

1,2-Dichloroethane-d4

Concen: 50.611 ug/l

RT: 8.03 min Scan# 1945

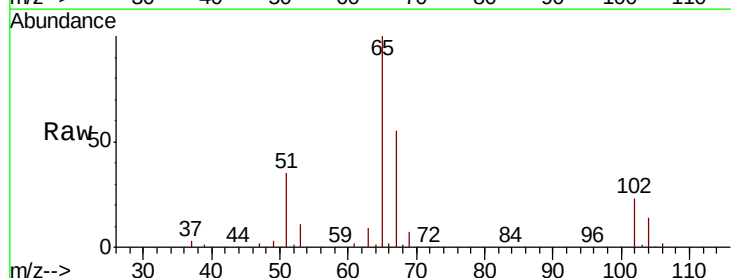
Delta R.T. 0.00 min

Lab File: VN051366.D

Acq: 21 Sep 2018 13:55

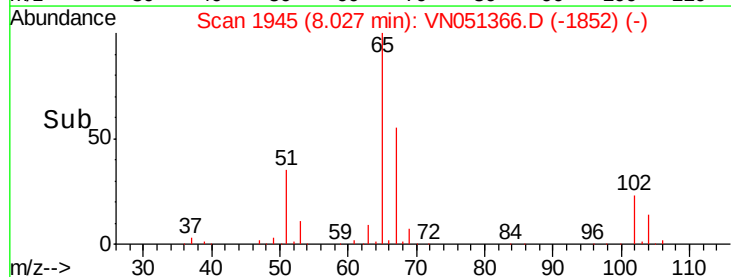
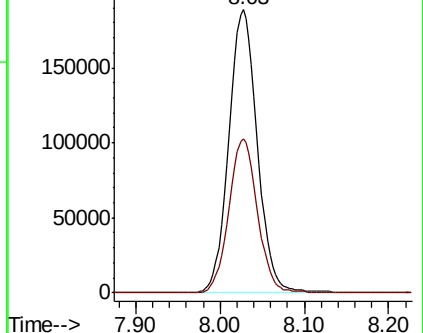
Tgt Ion: 65 Resp: 444457

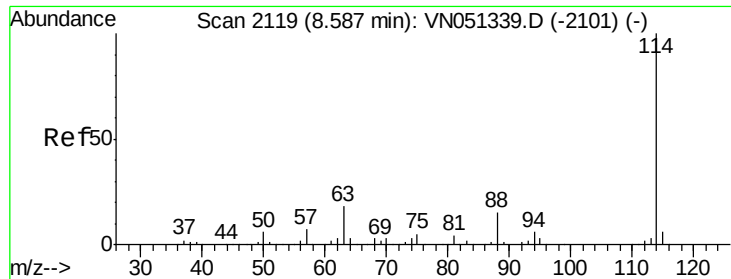
Ion	Ratio	Lower	Upper
65	100		
67	54.4	0.0	108.8



Abundance Ion 64.90 (64.60 to 65.60): VN051339.D (-1926) (-)

Ion 66.90 (66.60 to 67.60): VN051339.D (-1926) (-)

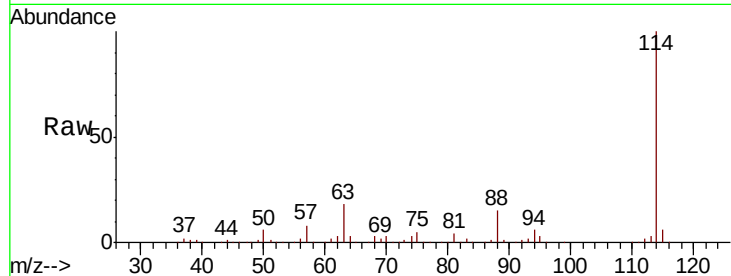




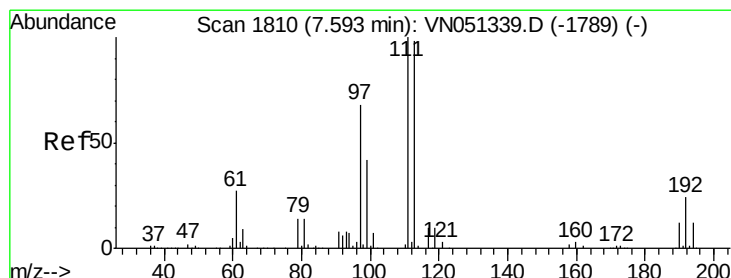
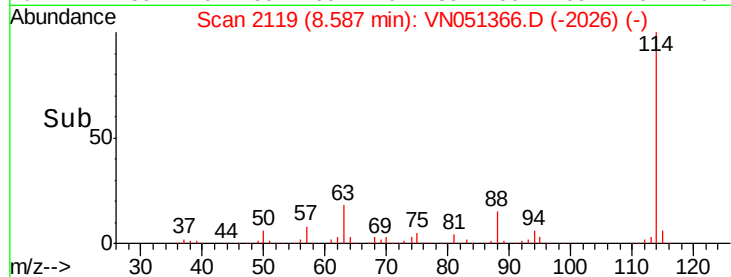
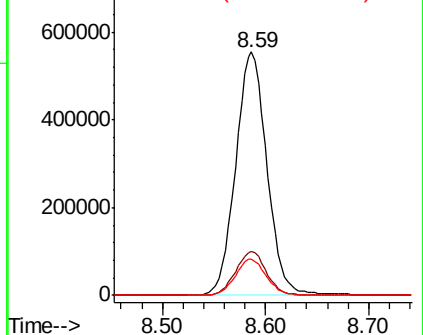
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051366.D
 Acq: 21 Sep 2018 13:55

Tot Ion:114 Resp: 1169632

Ion	Ratio	Lower	Upper
114	100		
63	17.9	0.0	36.6
88	14.7	0.0	29.8



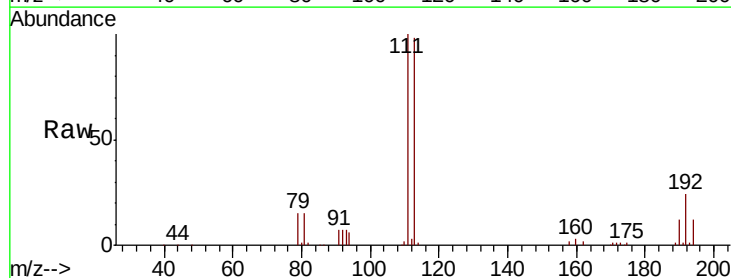
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



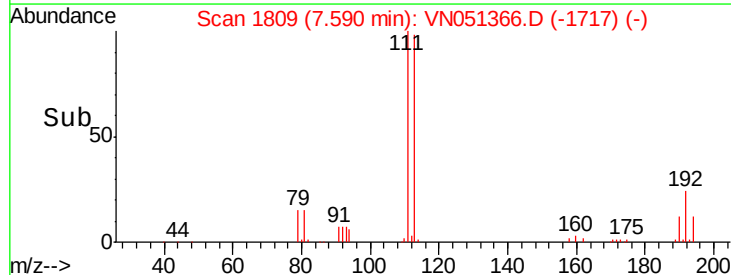
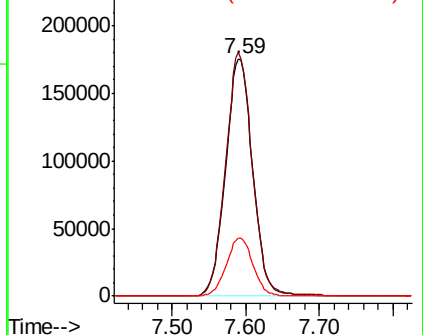
#35
 Dibromofluoromethane
 Concen: 47.384 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN051366.D
 Acq: 21 Sep 2018 13:55

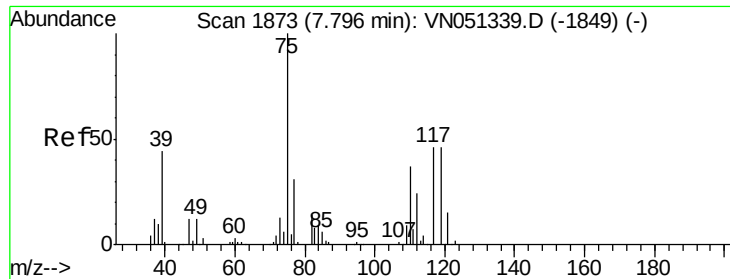
Tgt Ion:113 Resp: 447878

Ion	Ratio	Lower	Upper
113	100		
111	101.0	81.9	122.9
192	24.1	19.8	29.6



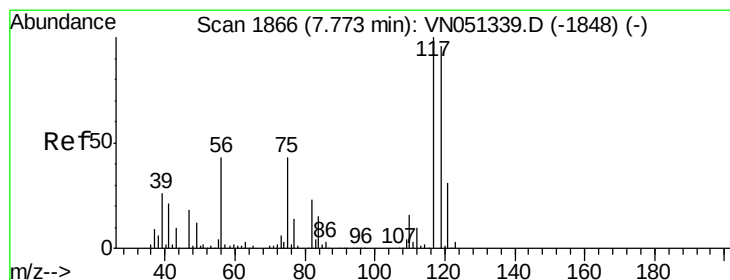
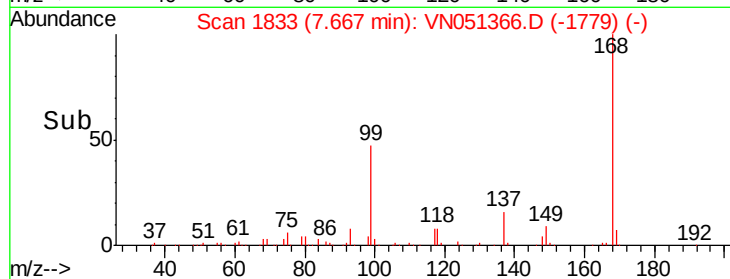
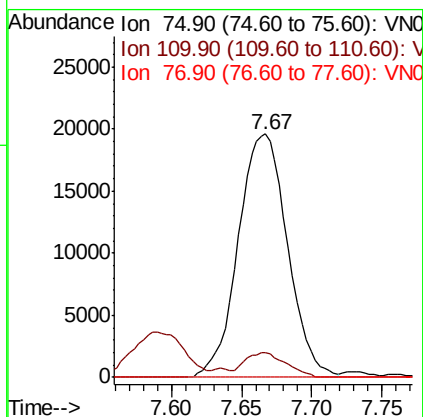
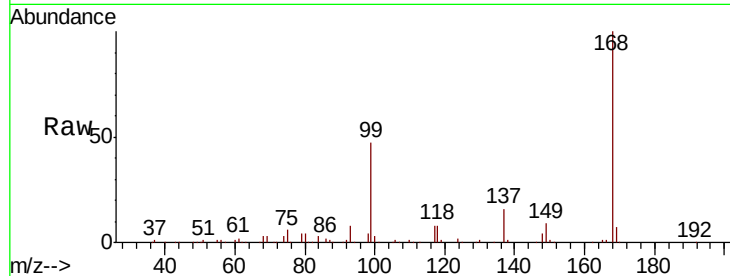
Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





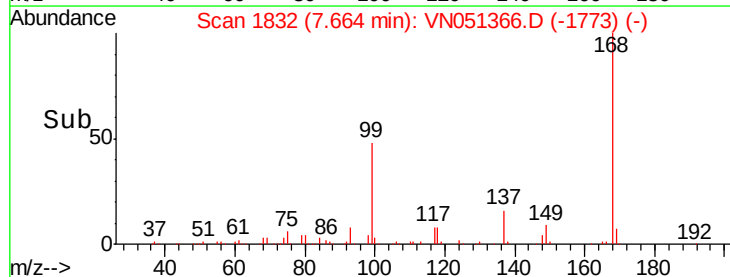
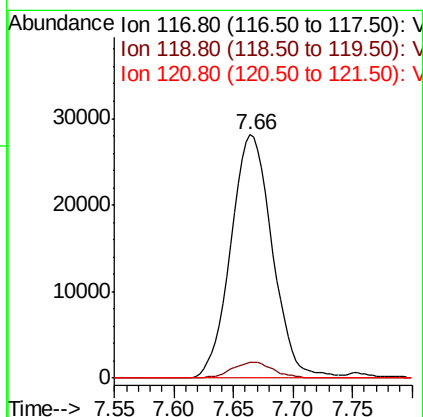
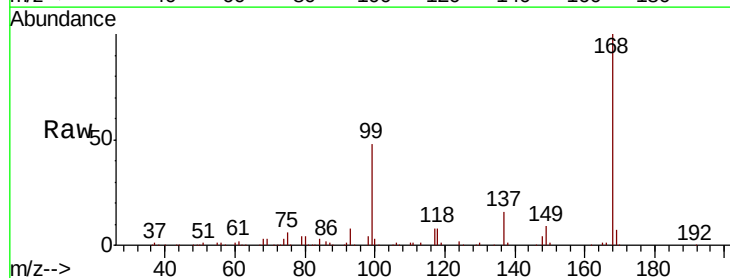
#36
 1,1-Dichloropropene
 Concen: 3.999 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051366.D
 Acq: 21 Sep 2018 13:55

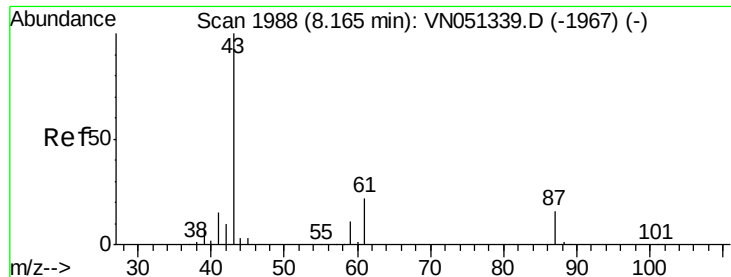
Tot Ion	75	110	77	Resp	Lower	Upper
75	100					
110	8.6	18.9				56.5#
77	0.0	25.4				38.2#



#38
 Carbon Tetrachloride
 Concen: 5.246 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN051366.D
 Acq: 21 Sep 2018 13:55

Tgt Ion	117	119	121	Resp	Lower	Upper
117	100					
119	6.4	77.0				115.4#
121	0.0	25.0				37.4#





#43

Isopropyl Acetate

Concen: 1.247 ug/l

RT: 8.24 min Scan# 2011

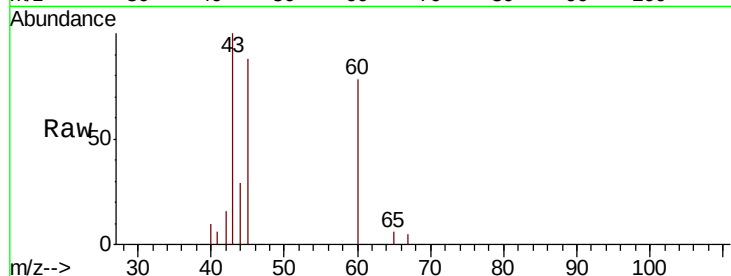
Delta R.T. 0.07 min

Lab File: VN051366.D

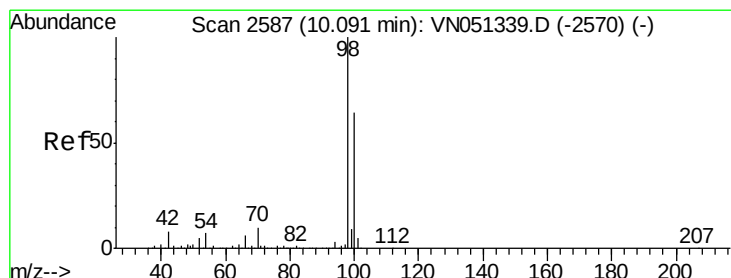
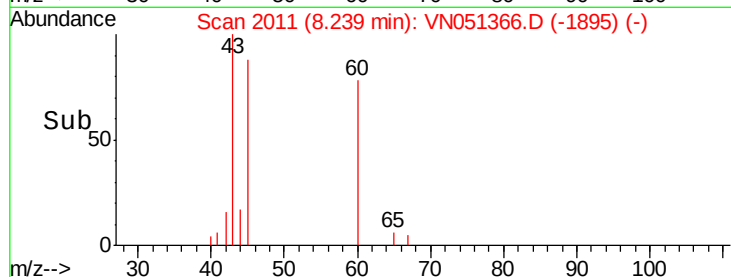
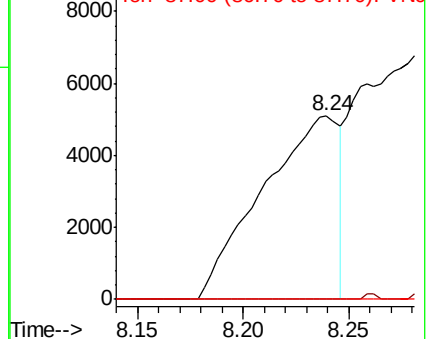
Acq: 21 Sep 2018 13:55

Tot Ion: 43 Resp: 12934

Ion	Ratio	Lower	Upper
43	100		
61	0.0	18.1	27.1#
87	0.0	12.8	19.2#



Abundance Ion 43.00 (42.70 to 43.70): VN051339.D (-1967) (-)



#50

Toluene-d8

Concen: 44.275 ug/l

RT: 10.09 min Scan# 2587

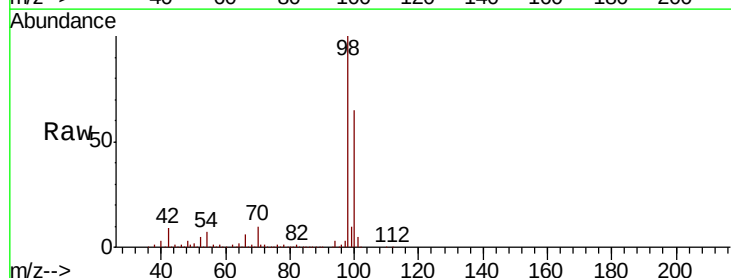
Delta R.T. 0.00 min

Lab File: VN051366.D

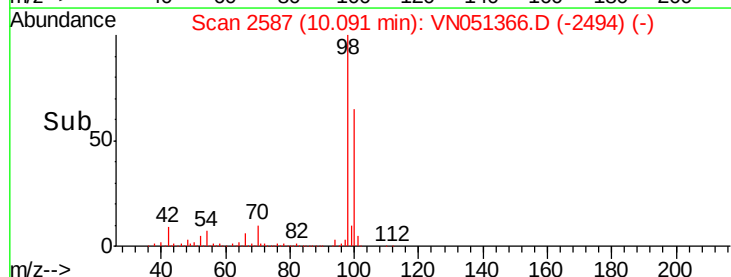
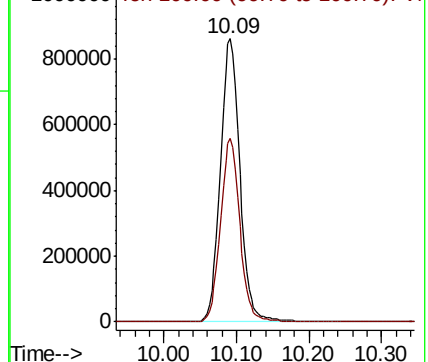
Acq: 21 Sep 2018 13:55

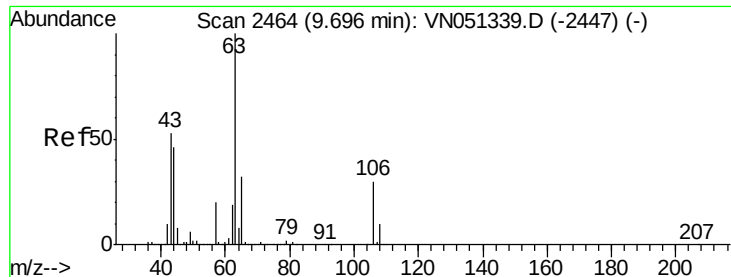
Tgt Ion: 98 Resp: 1608824

Ion	Ratio	Lower	Upper
98	100		
100	64.0	51.3	76.9



Abundance Ion 98.00 (97.70 to 98.70): VN051339.D (-2570) (-)





#58

2-Chloroethyl Vinyl ether

Concen: 8.573 ug/l

RT: 9.70 min Scan# 2465

Delta R.T. 0.00 min

Lab File: VN051366.D

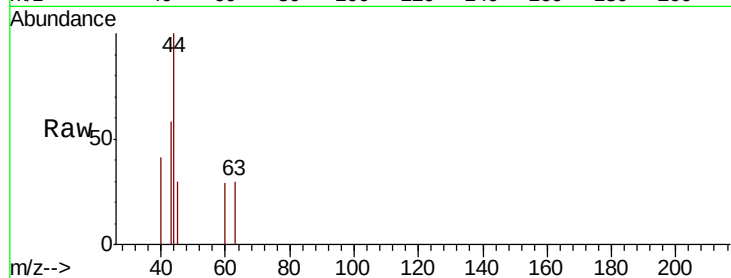
Acq: 21 Sep 2018 13:55

Tot Ion: 63 Resp: 96

Ion Ratio Lower Upper

63 100

106 0.0 23.7 35.5#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

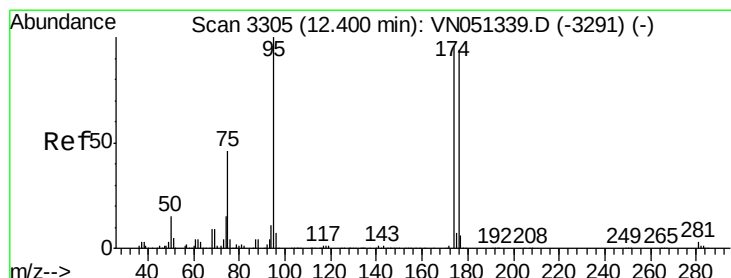
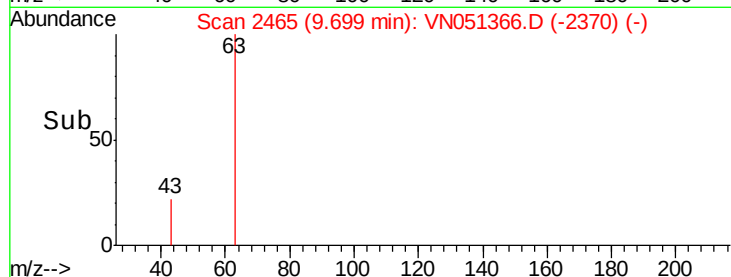
150

100

50

0

Time--> 9.68 9.69 9.70 9.71



#62

4-Bromofluorobenzene

Concen: 36.543 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051366.D

Acq: 21 Sep 2018 13:55

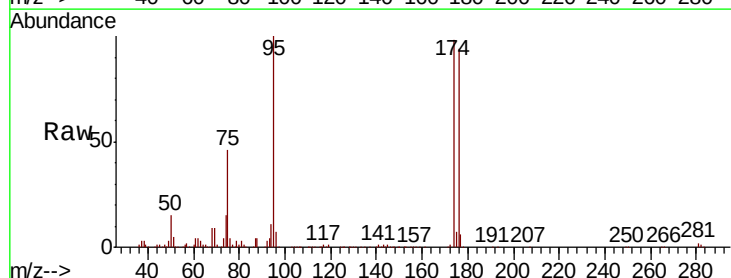
Tgt Ion: 95 Resp: 431995

Ion Ratio Lower Upper

95 100

174 99.8 0.0 194.6

176 95.8 0.0 189.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

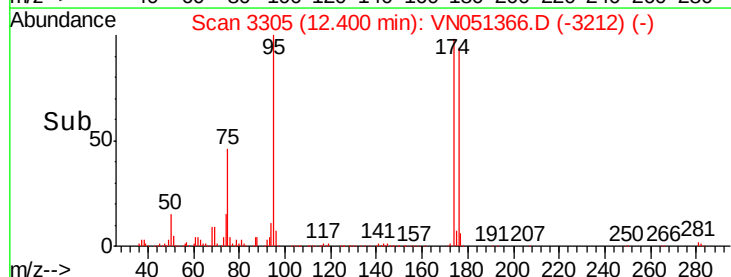
300000

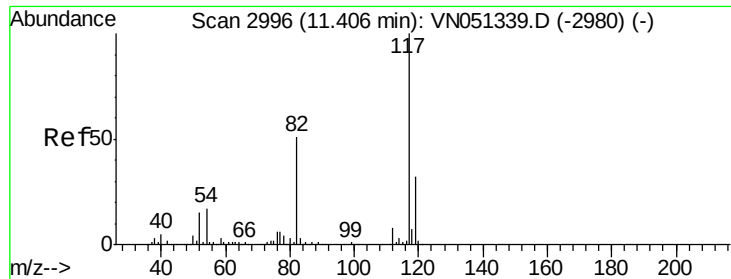
200000

100000

0

Time--> 12.30 12.40 12.50

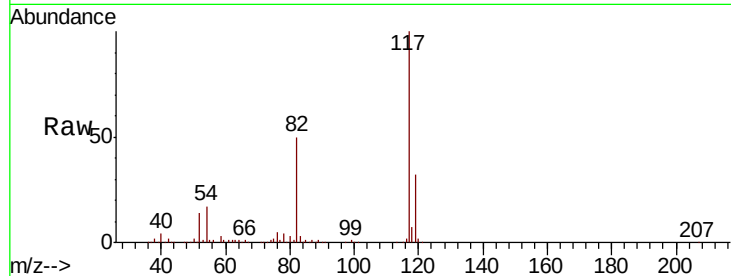




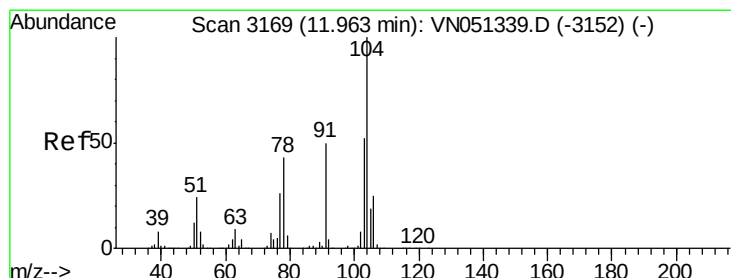
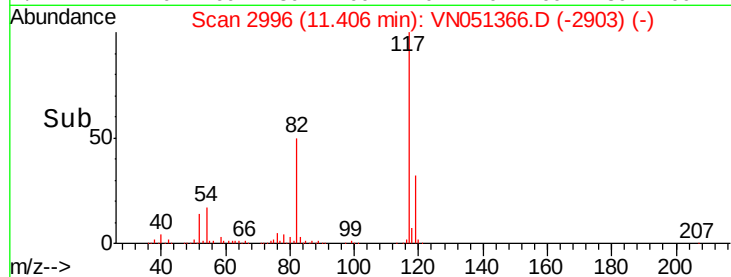
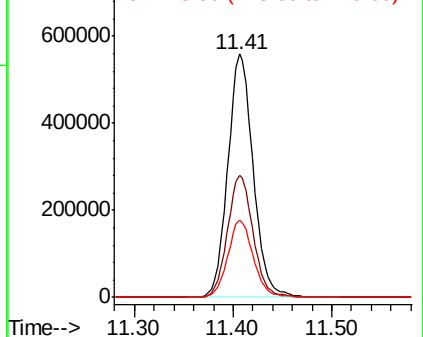
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051366.D
Acq: 21 Sep 2018 13:55

Tot Ion:117 Resp: 1005326

Ion	Ratio	Lower	Upper
117	100		
82	49.9	40.7	61.1
119	31.8	25.3	37.9



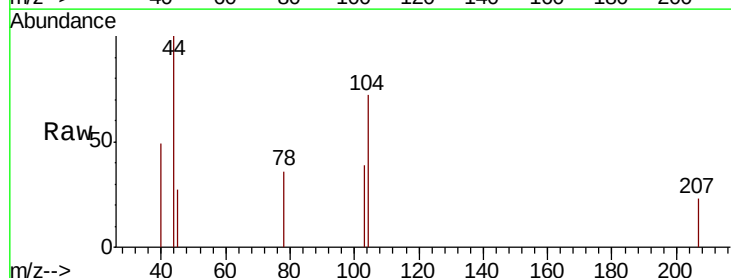
Abundance Ion 116.90 (116.60 to 117.60): V
 Ion 82.00 (81.70 to 82.70): VN0
 Ion 118.90 (118.60 to 119.60): V



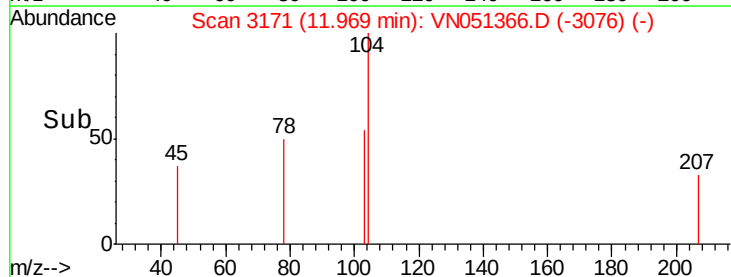
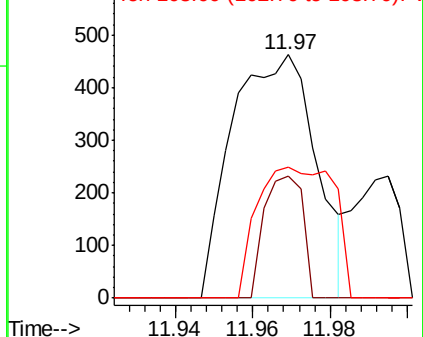
#70
Styrene
Concen: 0.921 ug/l
RT: 11.97 min Scan# 3171
Delta R.T. 0.01 min
Lab File: VN051366.D
Acq: 21 Sep 2018 13:55

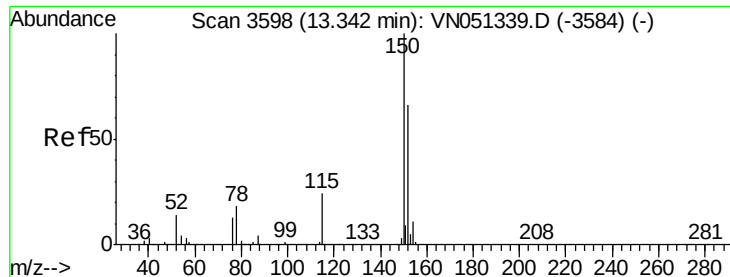
Tgt Ion:104 Resp: 696

Ion	Ratio	Lower	Upper
104	100		
78	23.1	37.8	56.6#
103	49.1	44.3	66.5



Abundance Ion 104.00 (103.70 to 104.70): V
 Ion 78.00 (77.70 to 78.70): VN0
 Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN051366.D

Acq: 21 Sep 2018 13:55

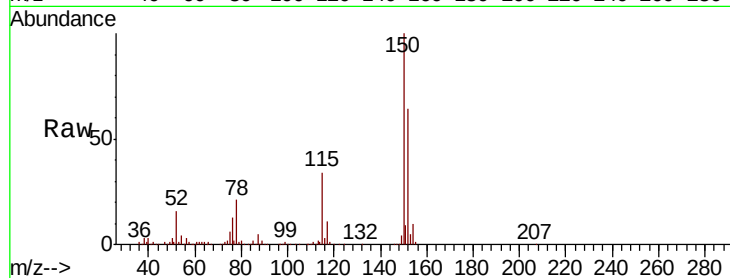
Tot Ion:152 Resp: 369666

Ion Ratio Lower Upper

152 100

115 54.0 26.9 80.7

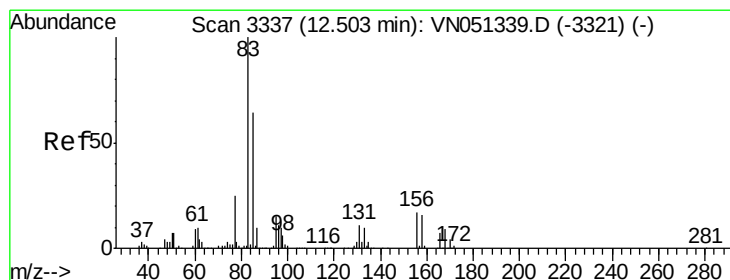
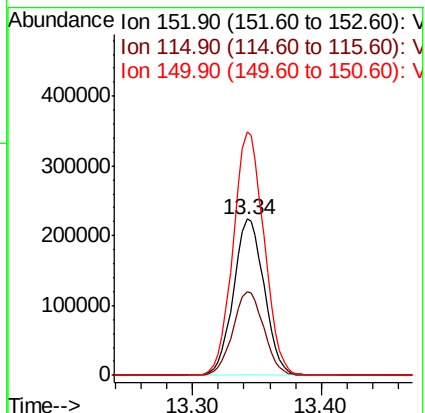
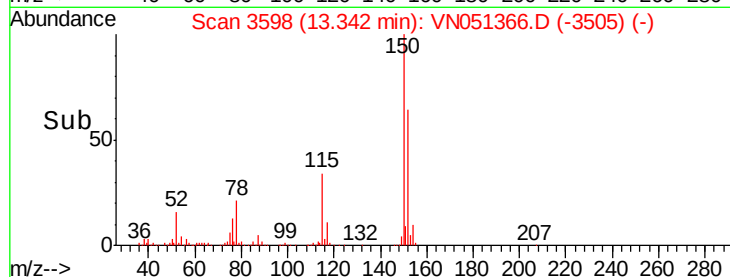
150 156.7 0.0 345.0



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN051366.D

Acq: 21 Sep 2018 13:55

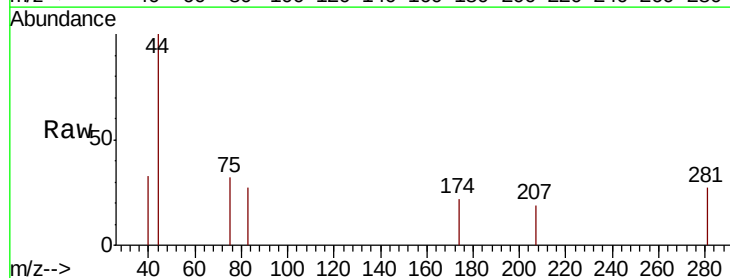
Tgt Ion: 83 Resp: 301

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.7#

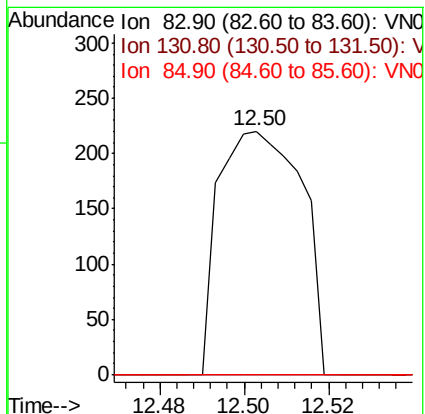
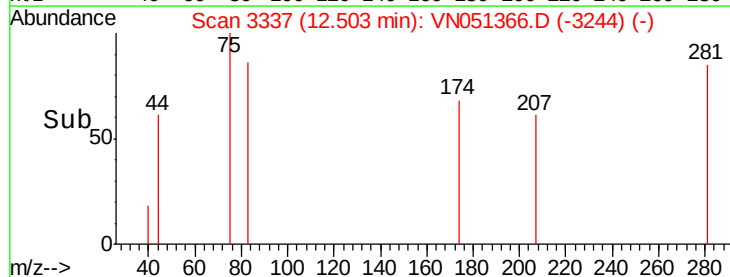
85 0.0 32.3 96.9#

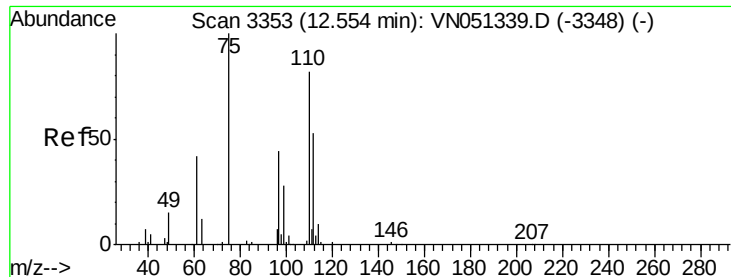


Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V





#76

1,2,3-Trichloropropane

Concen: 40.582 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051366.D

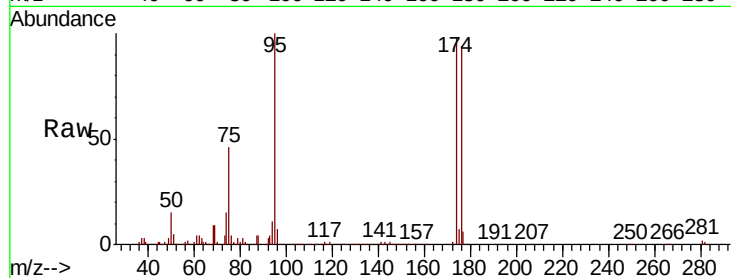
Acq: 21 Sep 2018 13:55

Tot Ion: 75 Resp: 200613

Ion Ratio Lower Upper

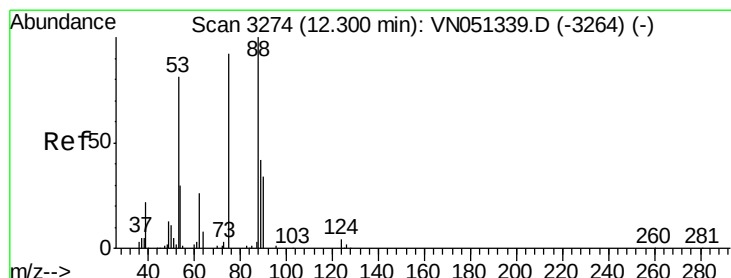
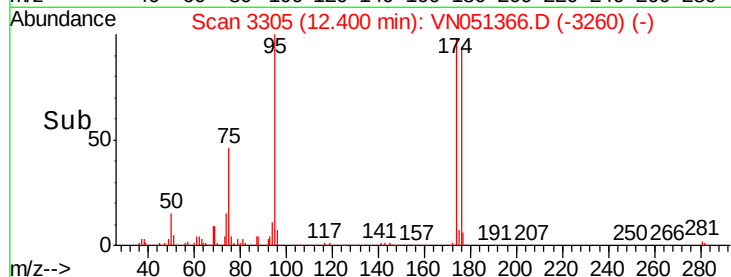
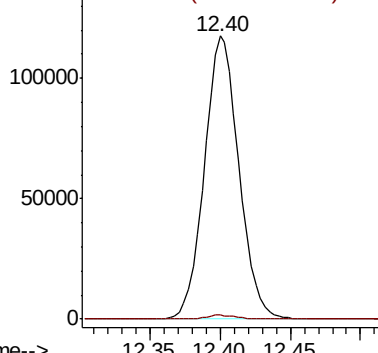
75 100

77 1.3 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: 121.671 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051366.D

Acq: 21 Sep 2018 13:55

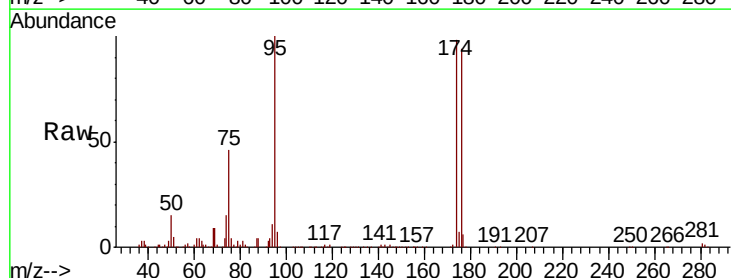
Tgt Ion: 75 Resp: 200613

Ion Ratio Lower Upper

75 100

53 0.1 69.9 104.9#

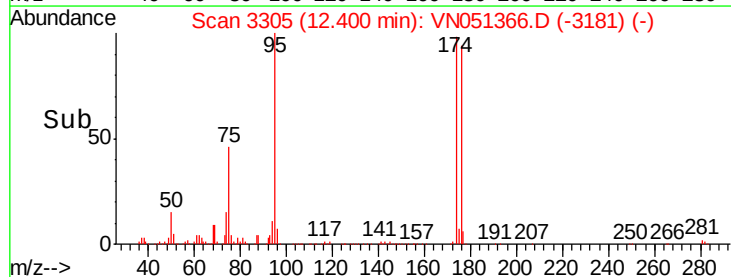
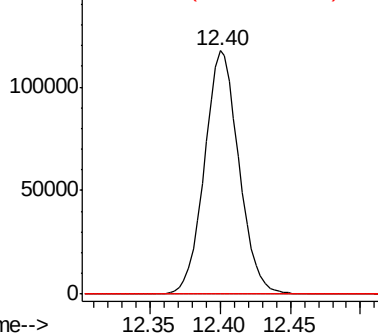
89 0.1 37.9 56.9#

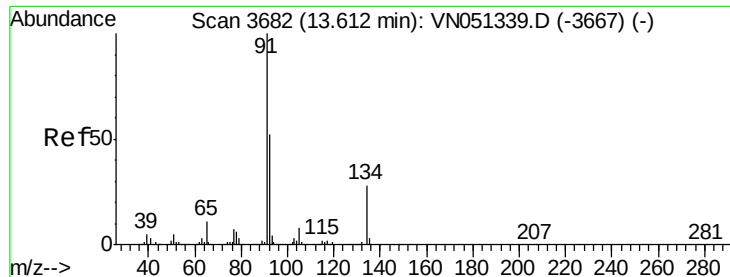


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#89

n-Butylbenzene

Concen: 1.467 ug/l

RT: 13.61 min Scan# 3681

Delta R.T. -0.00 min

Lab File: VN051366.D

Acq: 21 Sep 2018 13:55

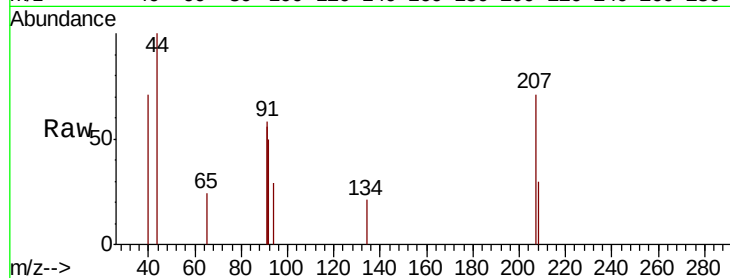
Tot Ion: 91 Resp: 785

Ion Ratio Lower Upper

91 100

92 82.0 26.0 78.0#

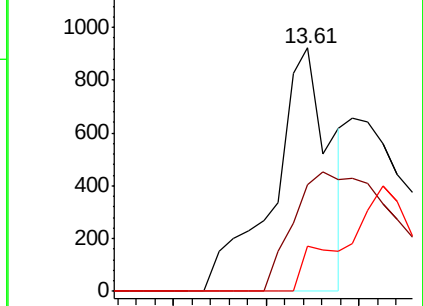
134 47.0 14.1 42.4#



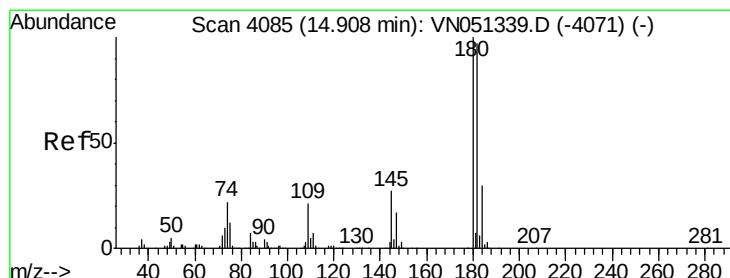
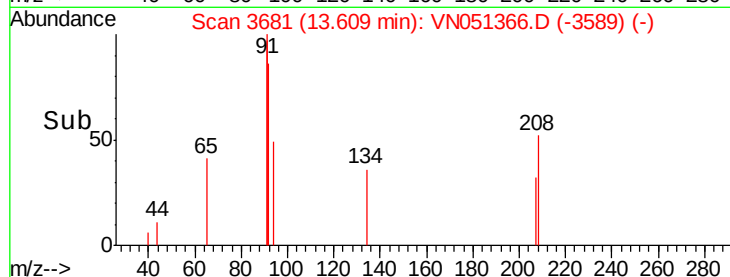
Abundance Ion 91.00 (90.70 to 91.70): VN051339.D (-3667) (-)

Ion 92.00 (91.70 to 92.70): VN051339.D (-3667) (-)

Ion 134.00 (133.70 to 134.70): VN051339.D (-3667) (-)



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 4.325 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN051366.D

Acq: 21 Sep 2018 13:55

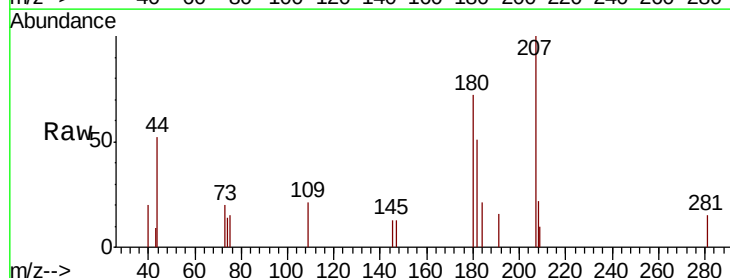
Tgt Ion: 180 Resp: 1732

Ion Ratio Lower Upper

180 100

182 98.6 48.4 145.2

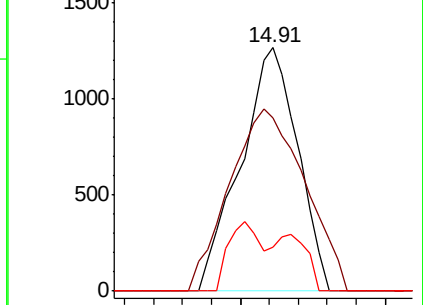
145 11.3 13.7 41.1#



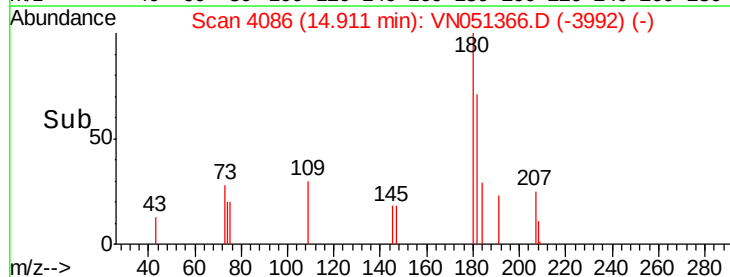
Abundance Ion 179.80 (179.50 to 180.50): VN051339.D (-4071) (-)

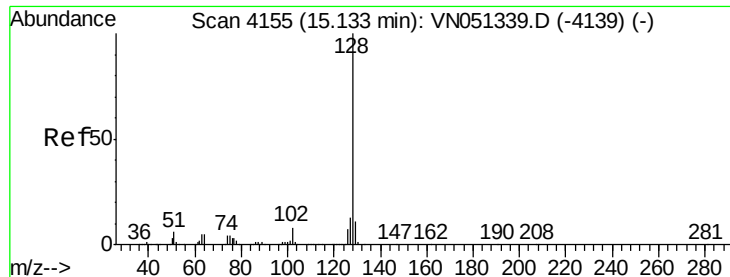
Ion 181.80 (181.50 to 182.50): VN051339.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN051339.D (-4071) (-)



Time-->





#95

Naphthalene

Concen: 5.613 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN051366.D

Acq: 21 Sep 2018 13:55

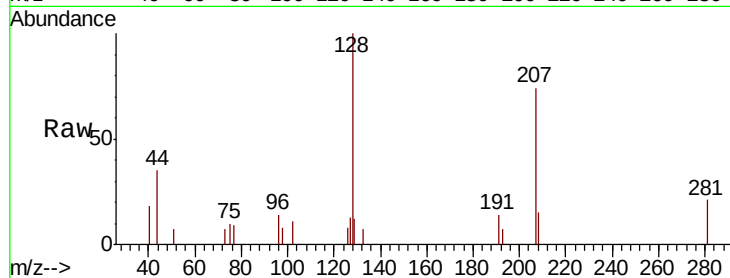
Tot Ion:128 Resp: 4101

Ion Ratio Lower Upper

128 100

127 7.9 10.3 15.5#

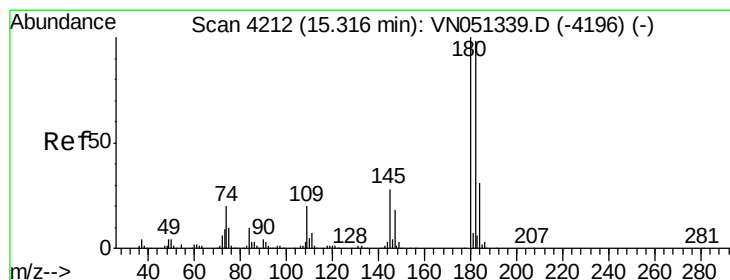
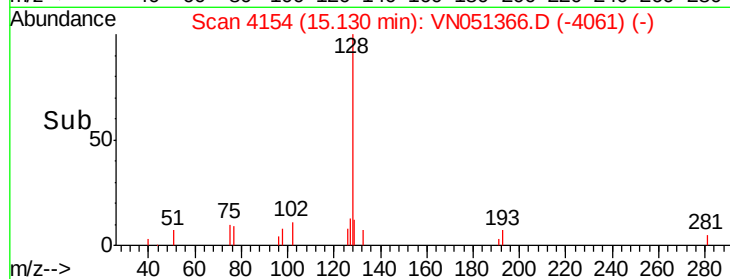
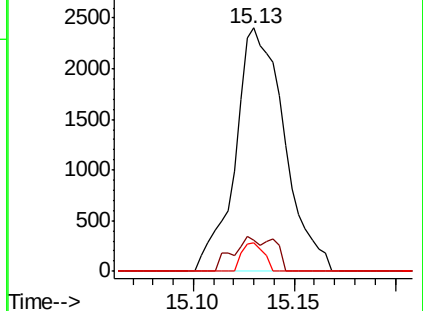
129 5.2 8.6 13.0#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 3.588 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN051366.D

Acq: 21 Sep 2018 13:55

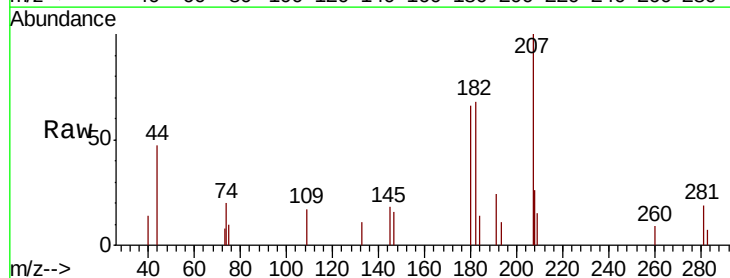
Tgt Ion:180 Resp: 2450

Ion Ratio Lower Upper

180 100

182 94.7 48.1 144.3

145 23.3 14.3 42.9



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

