

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\
 Data File : VN052841.D
 Acq On : 12 Dec 2018 21:33
 Operator : MD\SY
 Sample : PB115564ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115564ZHE#05

Quant Time: Dec 13 04:14:32 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1154598	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1817397	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1634904	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	681963	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	613577	49.98	ug/l	0.00
Spiked Amount			Recovery	=	99.96%	
35) Dibromofluoromethane	7.59	113	522628	51.52	ug/l	0.00
Spiked Amount			Recovery	=	103.04%	
50) Toluene-d8	10.09	98	2226831	50.63	ug/l	0.00
Spiked Amount			Recovery	=	101.26%	
62) 4-Bromofluorobenzene	12.40	95	735097	49.32	ug/l	0.00
Spiked Amount			Recovery	=	98.64%	

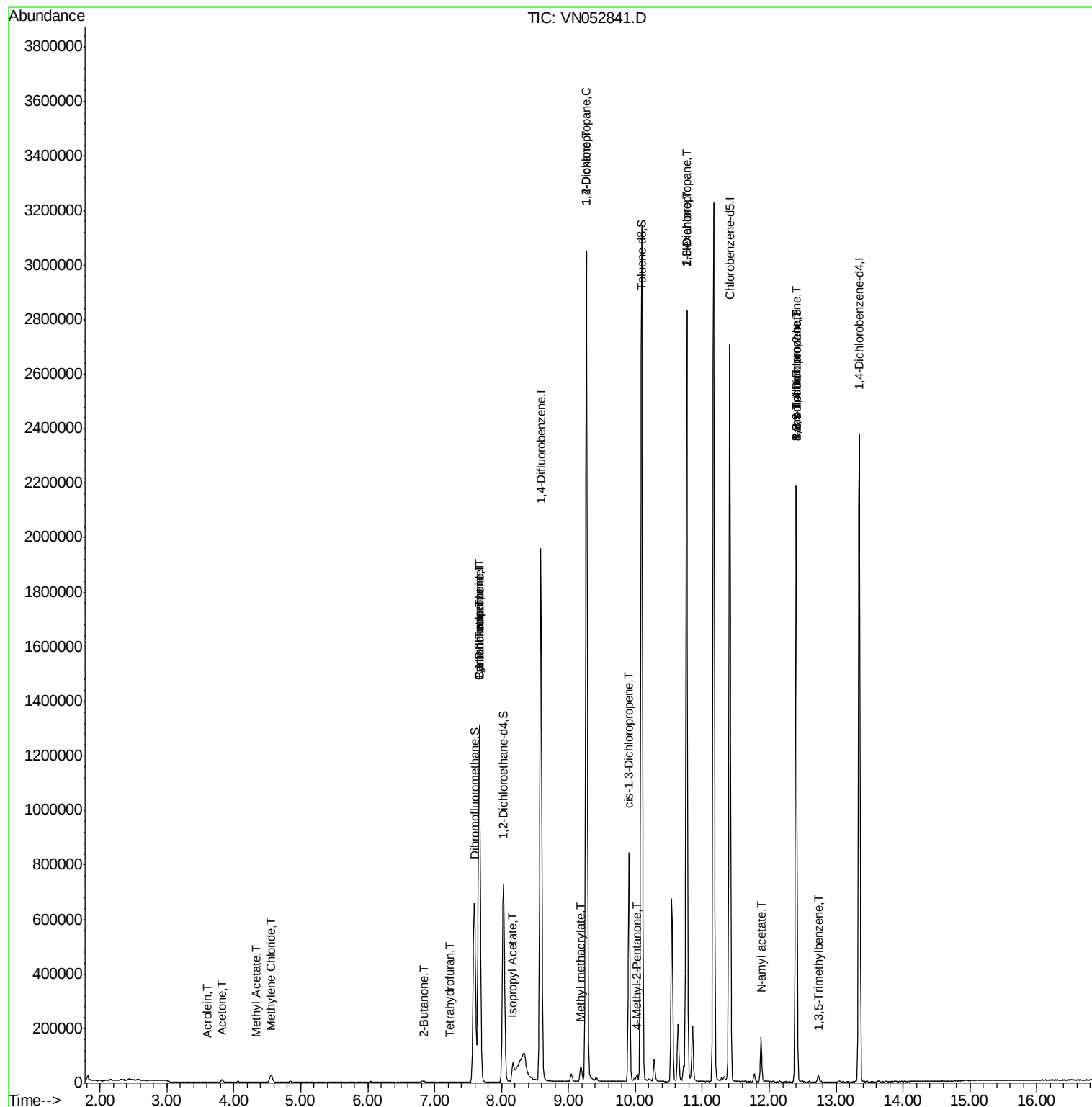
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	264	0.409	ug/l #	76
16) Acetone	3.82	43	15413	5.590	ug/l	94
18) Methyl Acetate	4.33	43	5395	0.533	ug/l #	58
20) Methylene Chloride	4.56	84	21245	1.712	ug/l	97
25) 2-Butanone	6.84	43	1522	0.356	ug/l	94
29) Tetrahydrofuran	7.22	42	1359	0.465	ug/l #	55
31) Cyclohexane	7.67	56	19934	0.383	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	78134	4.669	ug/l #	49
38) Carbon Tetrachloride	7.67	117	101434	6.585	ug/l #	15
43) Isopropyl Acetate	8.17	43	94535	4.586	ug/l #	75
45) 1,2-Dichloropropane	9.27	63	3961	0.301	ug/l #	44
48) Methyl methacrylate	9.18	41	19309	2.136	ug/l #	12
49) 1,4-Dioxane	9.27	88	264	2.573	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	22256	2.355	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	154244	8.130	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	28967	1.555	ug/l #	42
59) 2-Hexanone	10.77	43	401487	61.981	ug/l #	50
71) Bromoform	12.40	173	4935	0.616	ug/l #	1
74) N-amyl acetate	11.88	43	50705	3.627	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	351693	34.954	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	12494	0.304	ug/l	92
81) trans-1,4-Dichloro-2-buten	12.40	75	351693	112.289	ug/l #	12

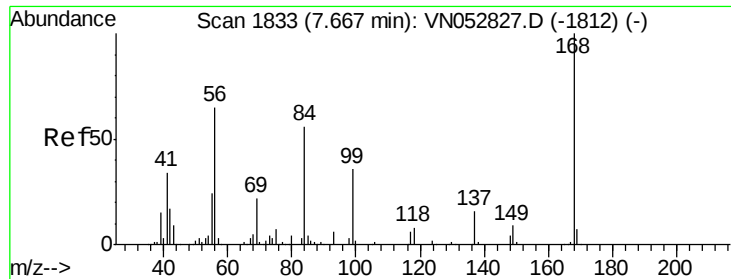
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121218\
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Quant Time: Dec 13 04:14:32 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
Quant Title : SW846 8260
QLast Update : Thu Dec 13 01:08:35 2018
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: VN052841.D

Acq: 12 Dec 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

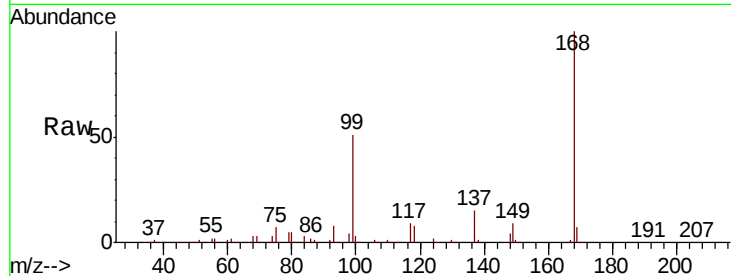
PB115564ZHE#05

Tot Ion:168 Resp: 1154598

Ion Ratio Lower Upper

168 100

99 51.3 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052827.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052827.D (-1812) (-)

7.67

500000

400000

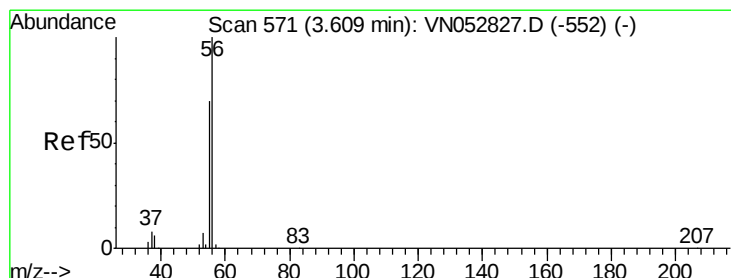
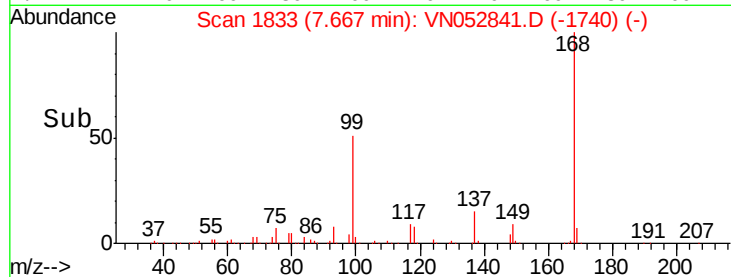
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.409 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN052841.D

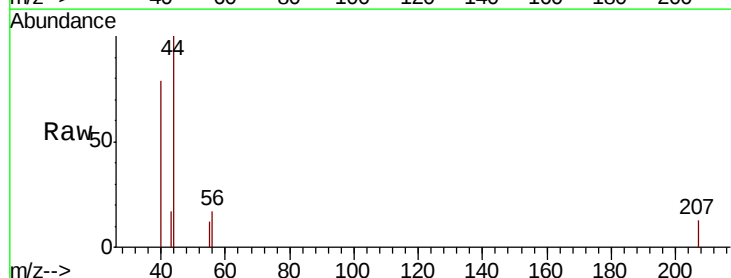
Acq: 12 Dec 2018 21:33

Tgt Ion: 56 Resp: 264

Ion Ratio Lower Upper

56 100

55 51.1 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN052827.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN052827.D (-552) (-)

3.60

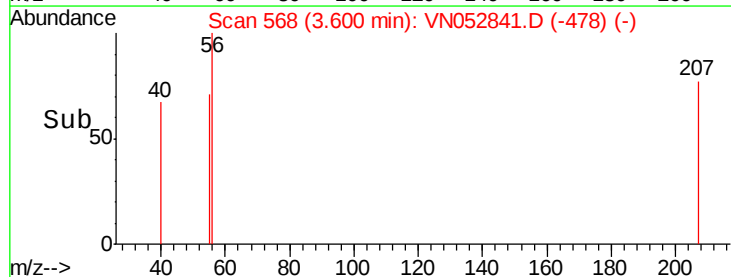
300

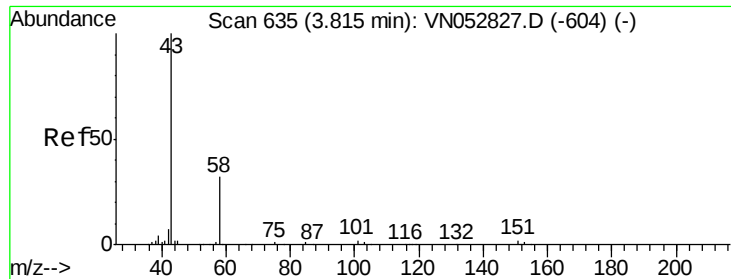
200

100

0

Time-->





#16

Acetone

Concen: 5.590 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

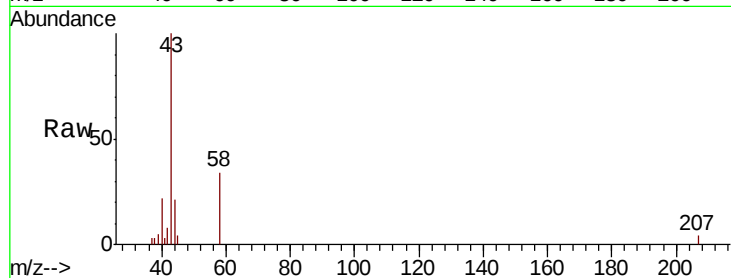
PB115564ZHE#05

Tot Ion: 43 Resp: 15413

Ion Ratio Lower Upper

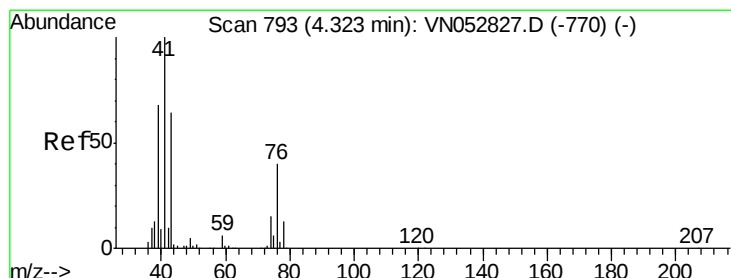
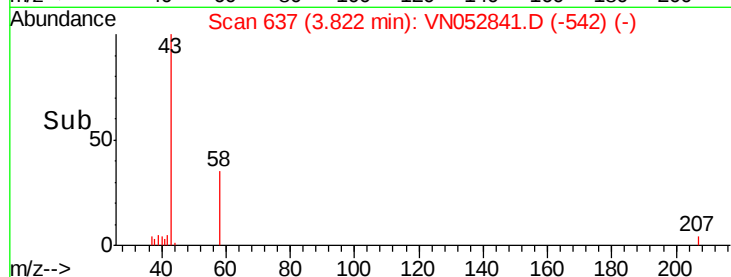
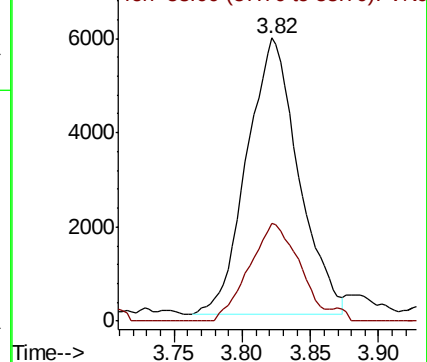
43 100

58 35.2 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.533 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN052841.D

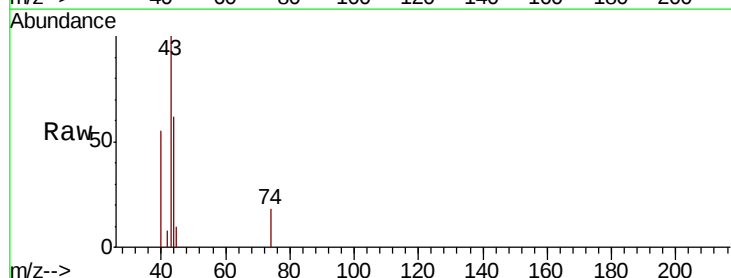
Acq: 12 Dec 2018 21:33

Tgt Ion: 43 Resp: 5395

Ion Ratio Lower Upper

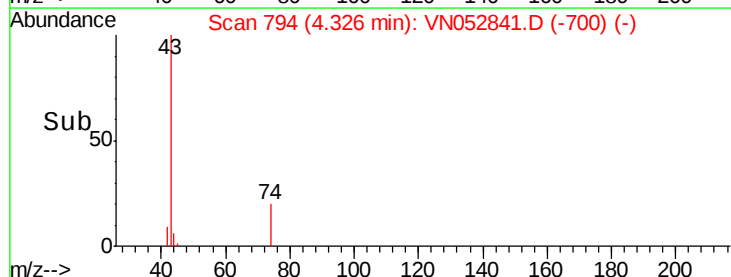
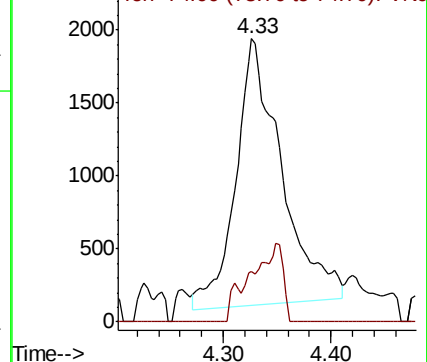
43 100

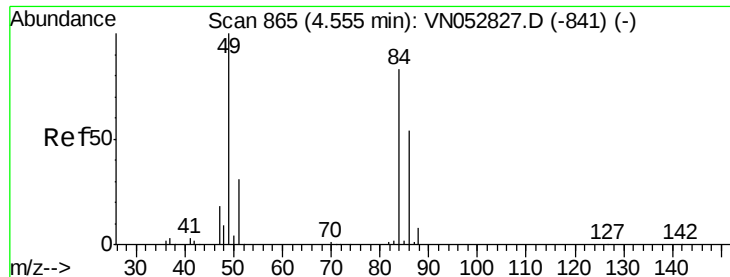
74 3.2 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 1.712 ug/l

RT: 4.56 min Scan# 866

Delta R.T. 0.00 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#05

Tot Ion: 84 Resp: 21245

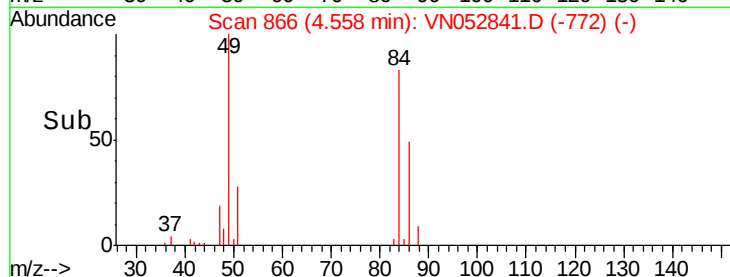
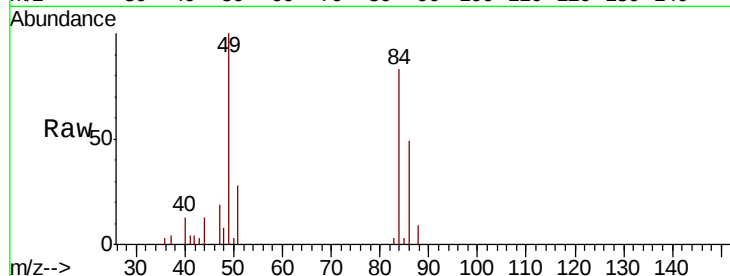
Ion Ratio Lower Upper

84 100

49 120.7 96.8 145.2

51 34.3 29.9 44.9

86 59.5 51.8 77.6

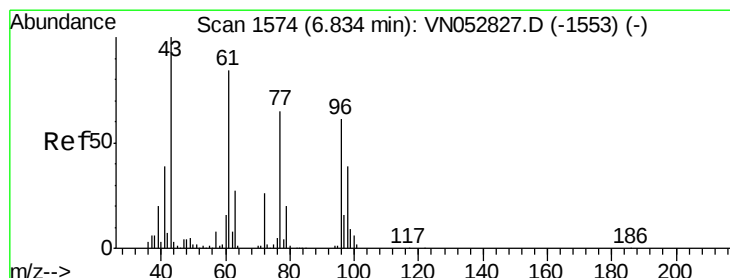
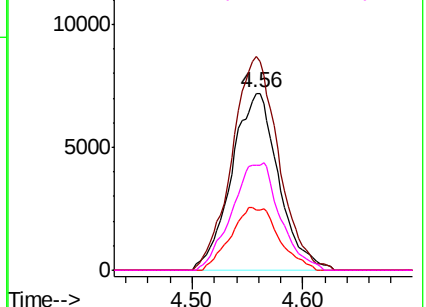


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 0.356 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VN052841.D

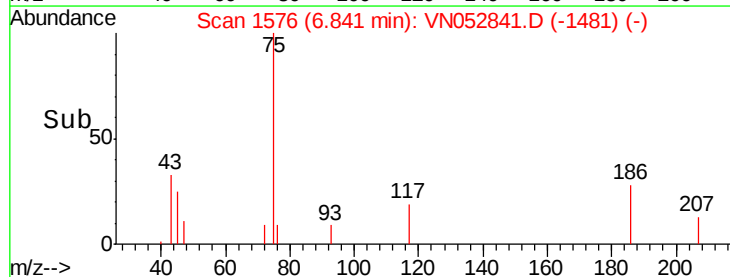
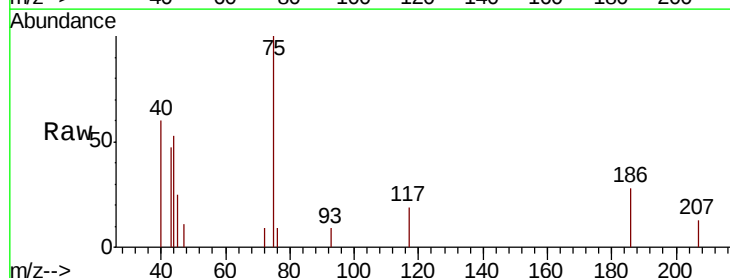
Acq: 12 Dec 2018 21:33

Tgt Ion: 43 Resp: 1522

Ion Ratio Lower Upper

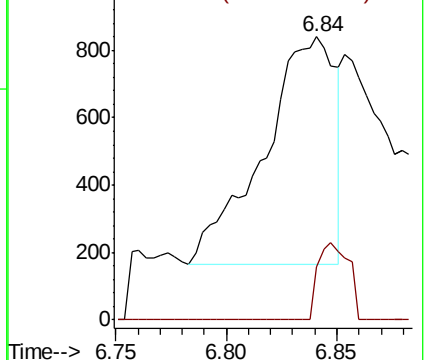
43 100

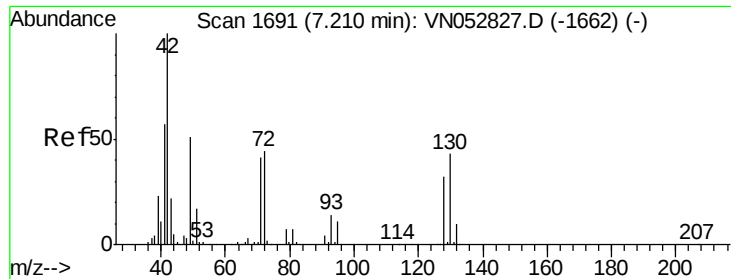
72 23.4 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO

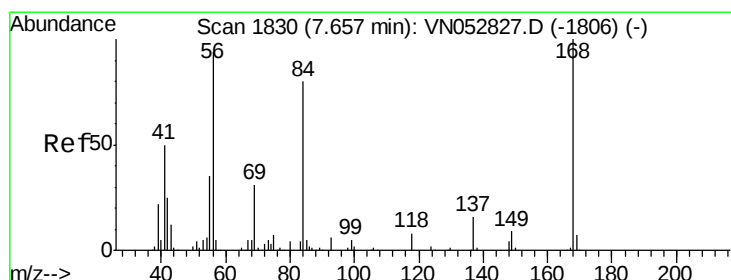
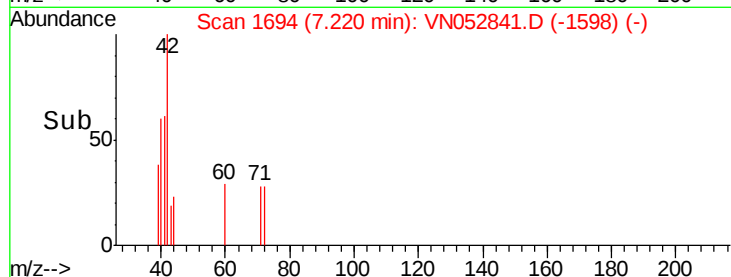
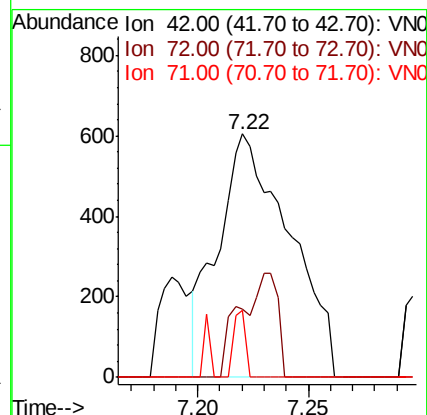
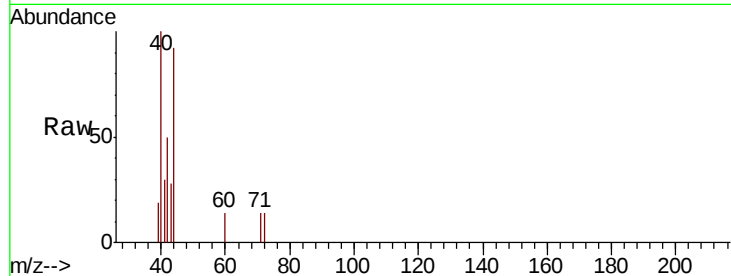




#29
Tetrahydrofuran
Concen: 0.465 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.01 min
Lab File: VN052841.D
Acq: 12 Dec 2018 21:33

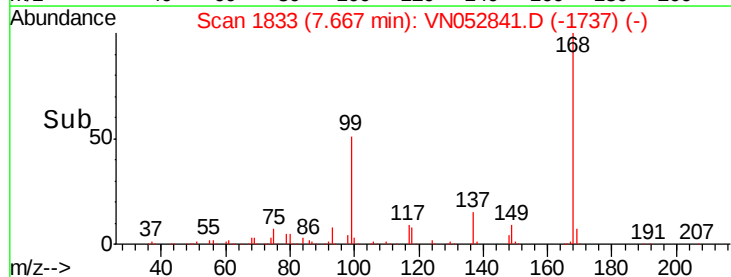
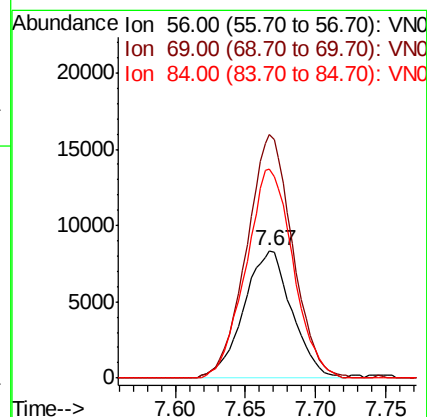
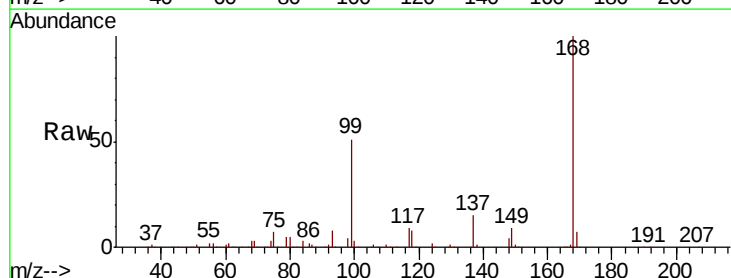
Instrument :
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ClientSampleId :
PB115564ZHE#05

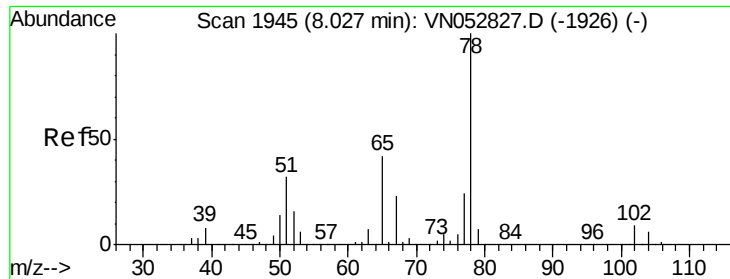
Tot Ion: 42 Resp: 1359
Ion Ratio Lower Upper
42 100
72 22.2 34.7 52.1#
71 4.6 32.3 48.5#



#31
Cyclohexane
Concen: 0.383 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052841.D
Acq: 12 Dec 2018 21:33

Tgt Ion: 56 Resp: 19934
Ion Ratio Lower Upper
56 100
69 190.9 26.6 39.8#
84 164.3 68.4 102.6#

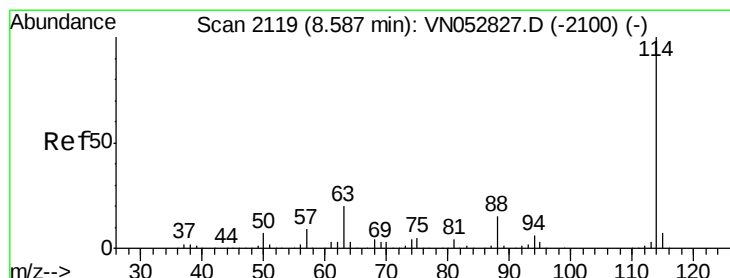
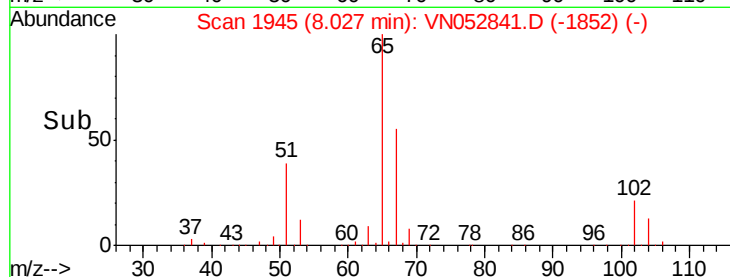
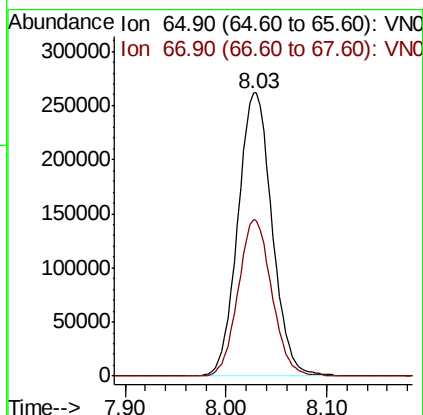
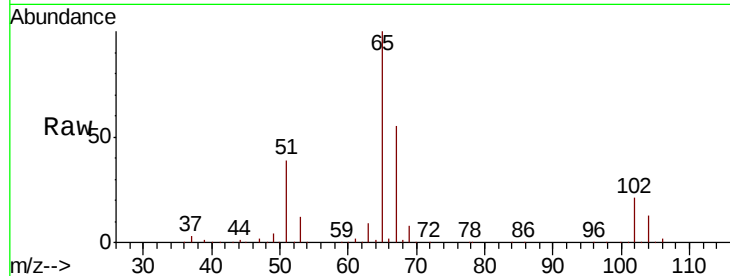




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052841.D
 Acq: 12 Dec 2018 21:33

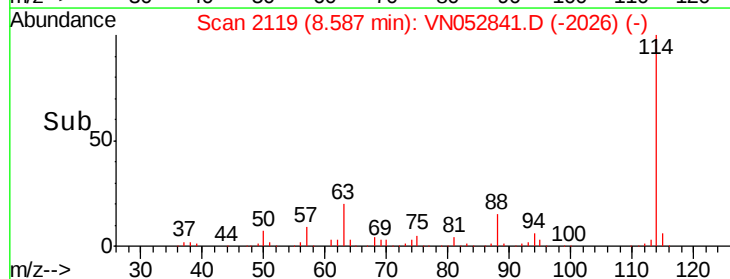
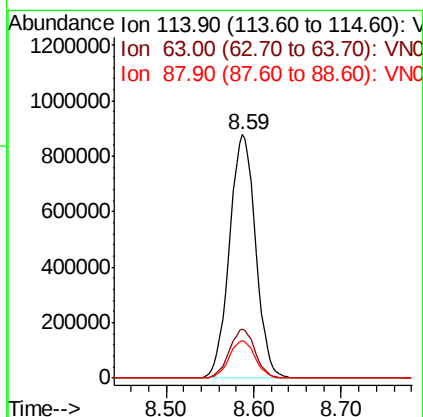
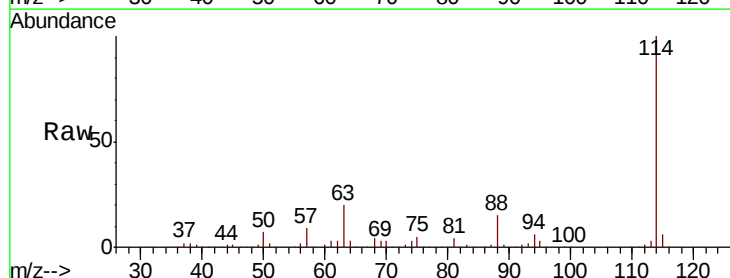
Instrument :
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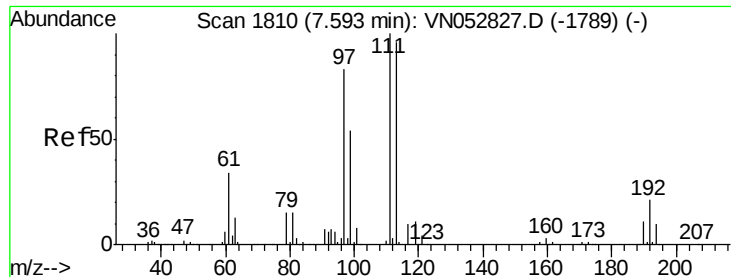
Tot Ion: 65 Resp: 613577
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052841.D
 Acq: 12 Dec 2018 21:33

Tgt Ion: 114 Resp: 1817397
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 39.8
 88 15.4 0.0 31.0

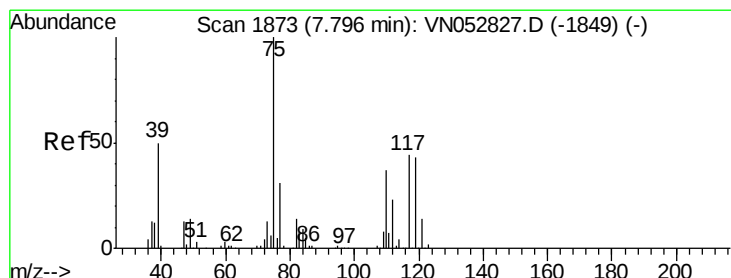
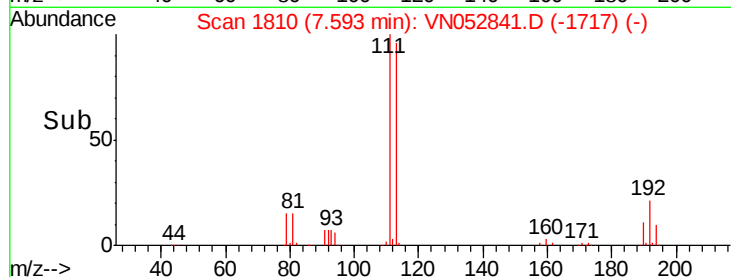
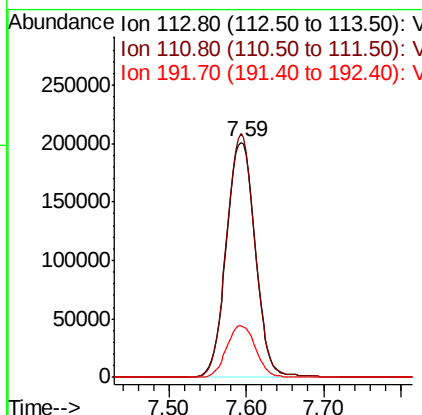
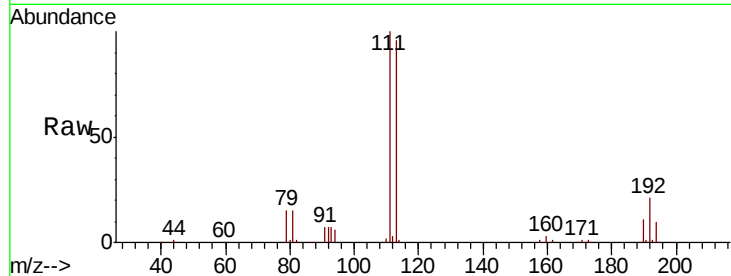




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052841.D
 Acq: 12 Dec 2018 21:33

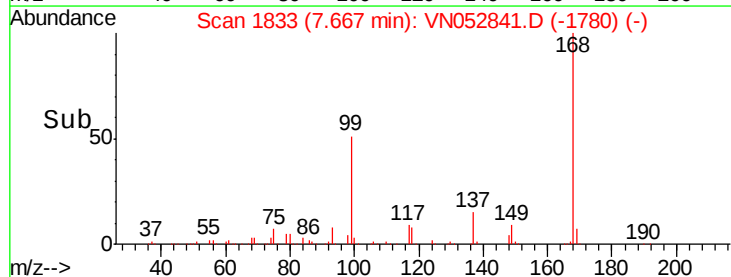
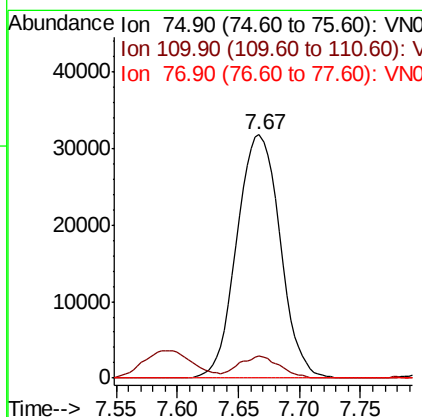
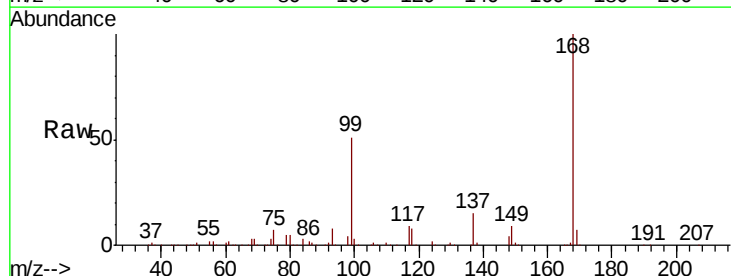
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115564ZHE#05

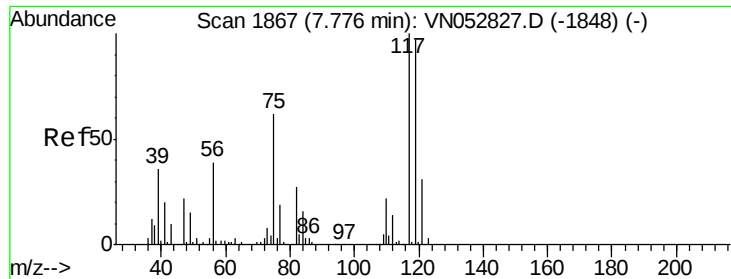
Tot Ion:113 Resp: 522628
 Ion Ratio Lower Upper
 113 100
 111 101.2 83.0 124.4
 192 22.0 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 4.669 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052841.D
 Acq: 12 Dec 2018 21:33

Tgt Ion: 75 Resp: 78134
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.2 54.6#
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.585 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#05

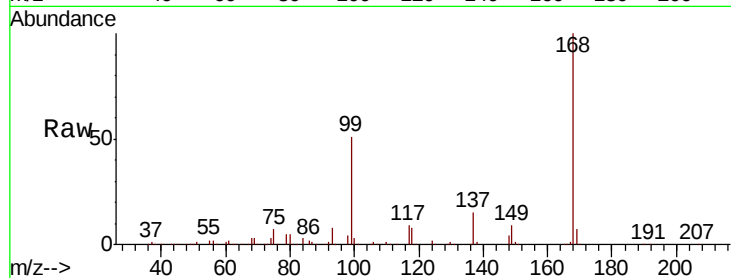
Tot Ion:117 Resp: 101434

Ion Ratio Lower Upper

117 100

119 4.5 77.1 115.7#

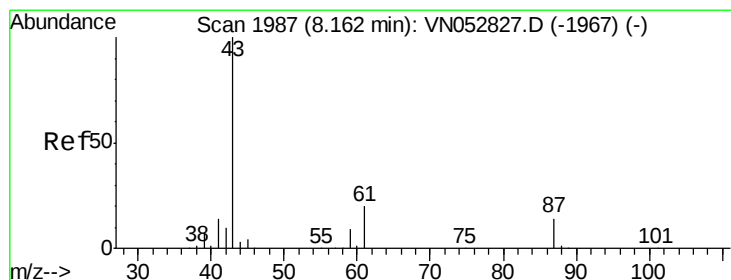
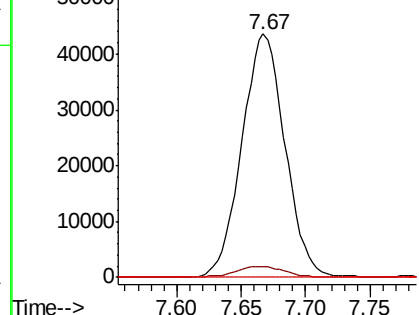
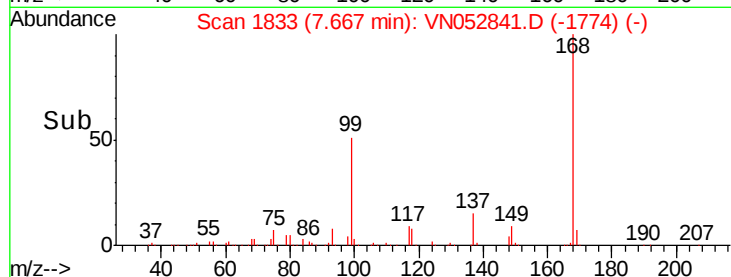
121 0.0 24.9 37.3#



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: 4.586 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

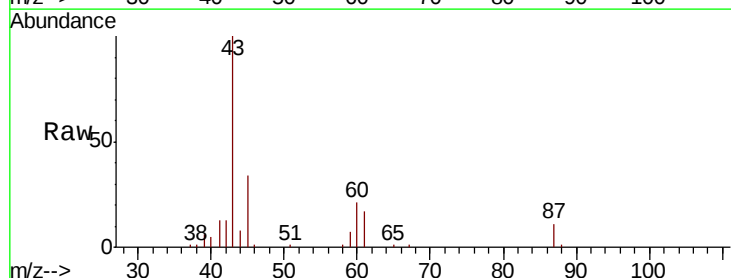
Tgt Ion: 43 Resp: 94535

Ion Ratio Lower Upper

43 100

61 12.5 22.9 34.3#

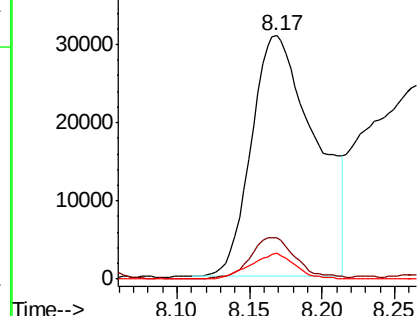
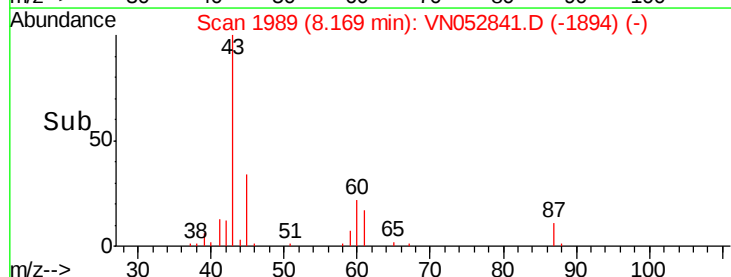
87 7.4 10.6 15.8#

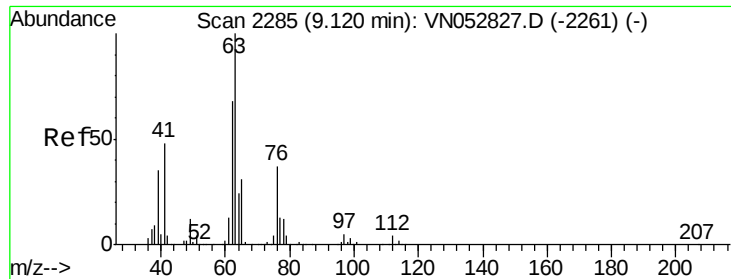


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.301 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

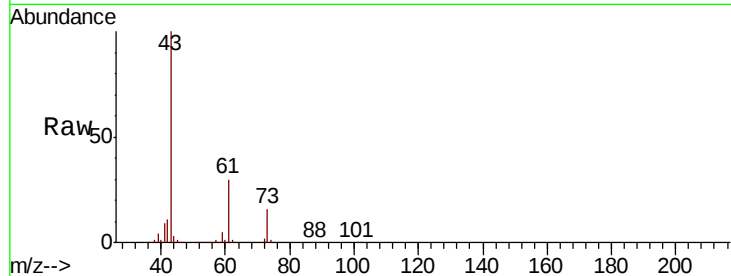
PB115564ZHE#05

Tot Ion: 63 Resp: 3961

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC

9.27

2500

2000

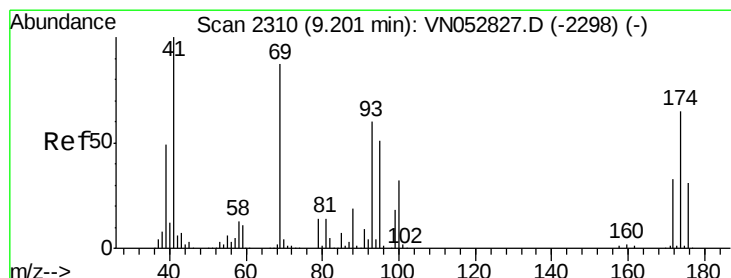
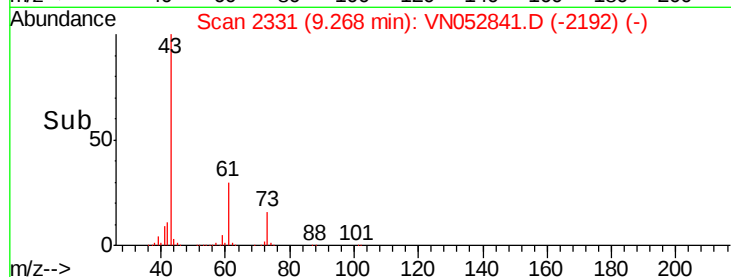
1500

1000

500

0

Time--> 9.20 9.25 9.30



#48

Methyl methacrylate

Concen: 2.136 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

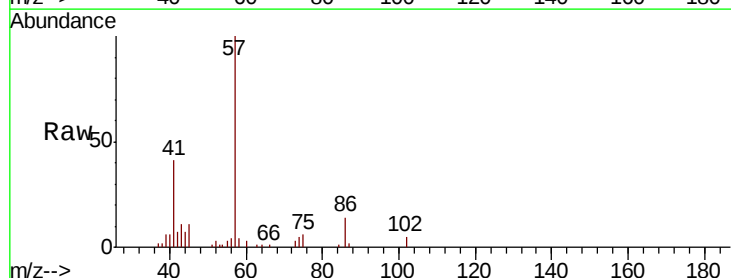
Tgt Ion: 41 Resp: 19309

Ion Ratio Lower Upper

41 100

69 0.0 72.2 108.2#

39 0.0 41.9 62.9#



Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC

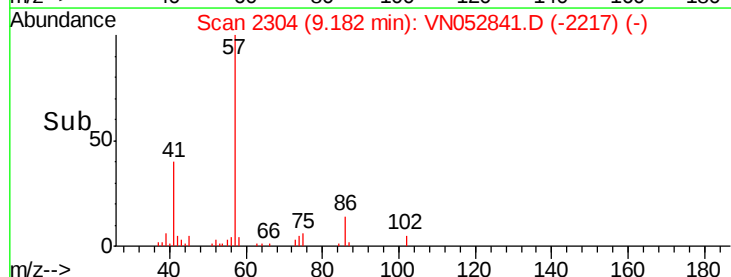
150000

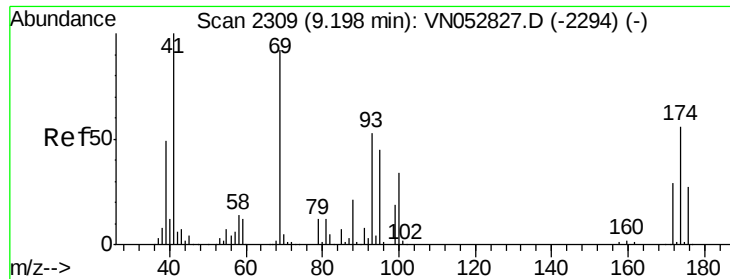
100000

50000

0

Time--> 9.10 9.15 9.20 9.25





#49

1,4-Dioxane

Concen: 2.573 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#05

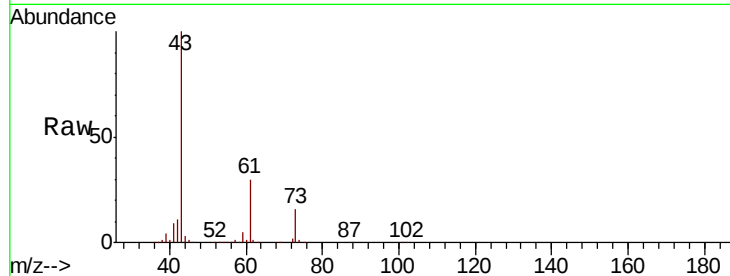
Tot Ion: 88 Resp: 264

Ion Ratio Lower Upper

88 100

43 1146490.2 26.6 40.0#

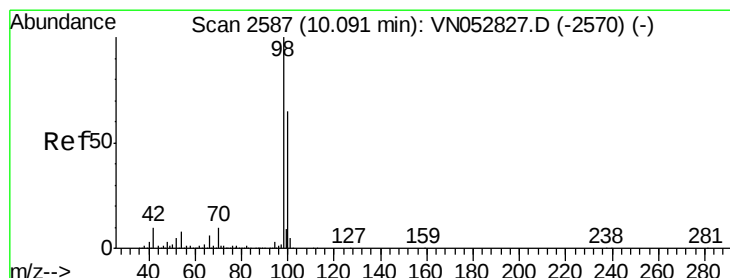
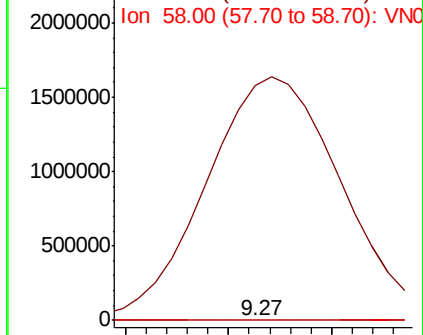
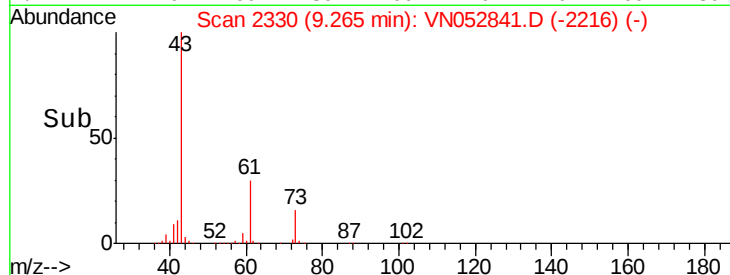
58 4839.0 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 2.573 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052841.D

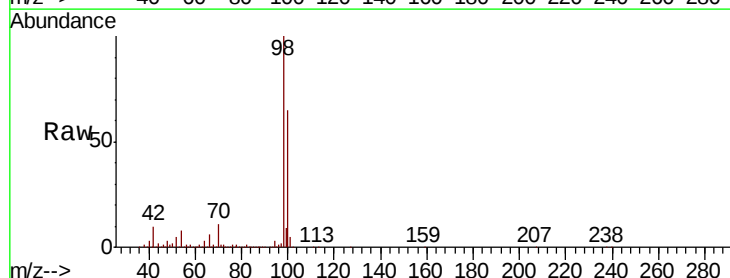
Acq: 12 Dec 2018 21:33

Tgt Ion: 98 Resp: 2226831

Ion Ratio Lower Upper

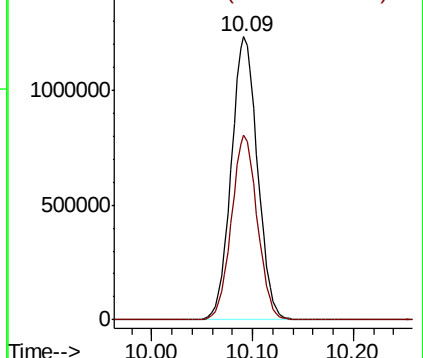
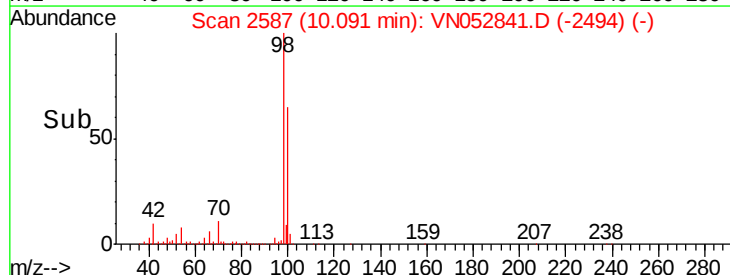
98 100

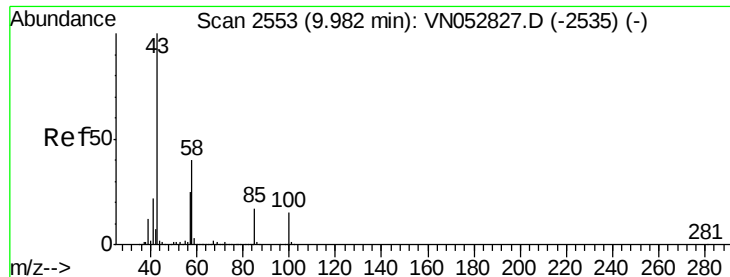
100 64.3 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 2.355 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.05 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

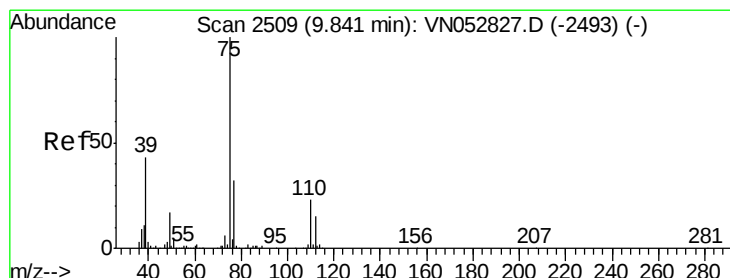
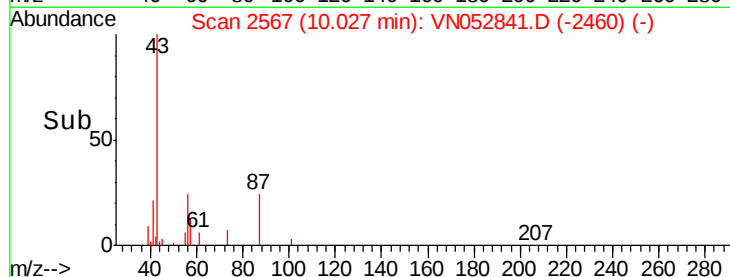
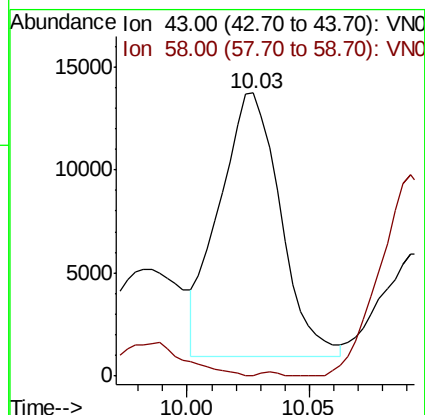
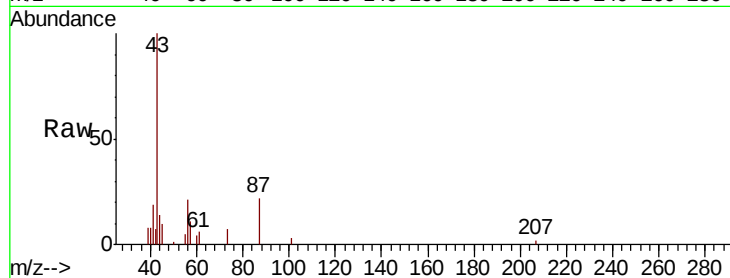
PB115564ZHE#05

Tot Ion: 43 Resp: 22256

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 8.130 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

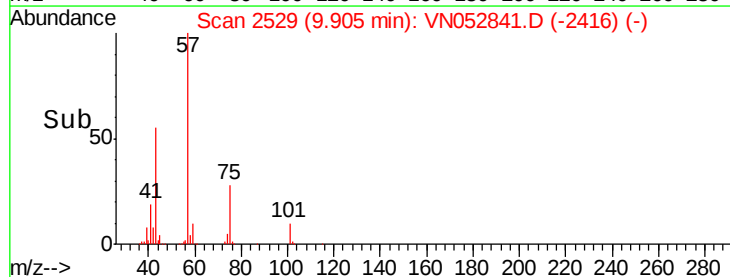
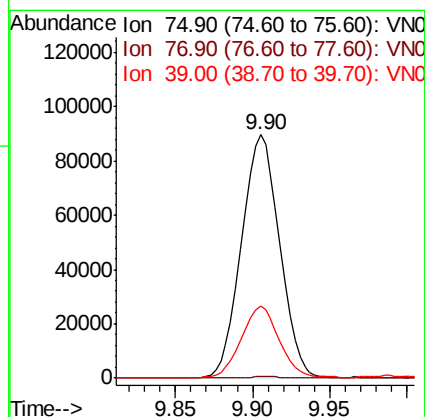
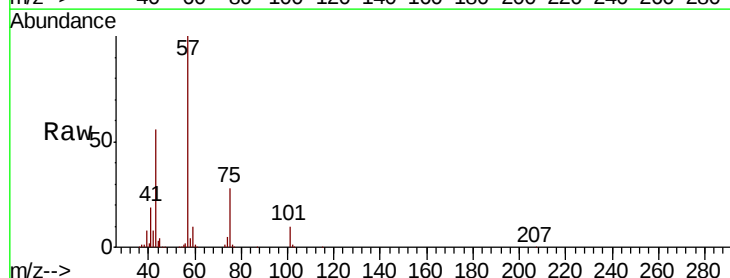
Tgt Ion: 75 Resp: 154244

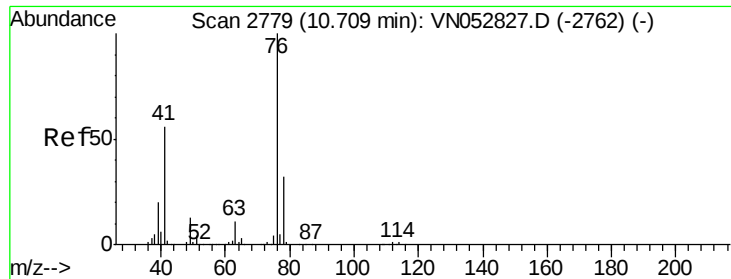
Ion Ratio Lower Upper

75 100

77 0.5 25.8 38.8#

39 29.4 34.8 52.2#

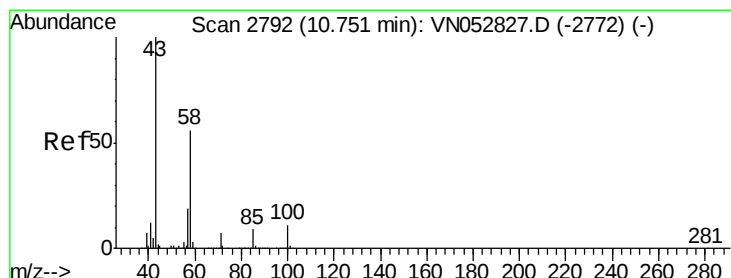
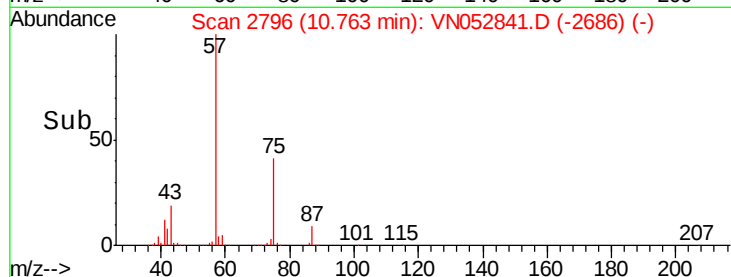
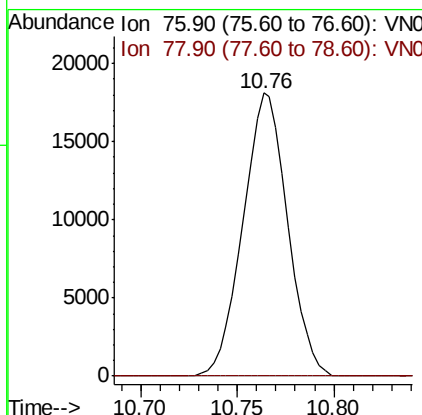
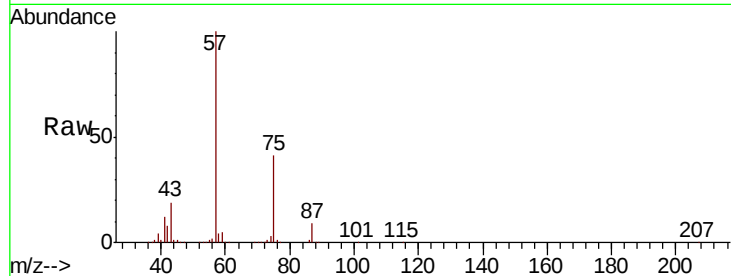




#57
 1,3-Dichloropropane
 Concen: 1.555 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN052841.D
 Acq: 12 Dec 2018 21:33

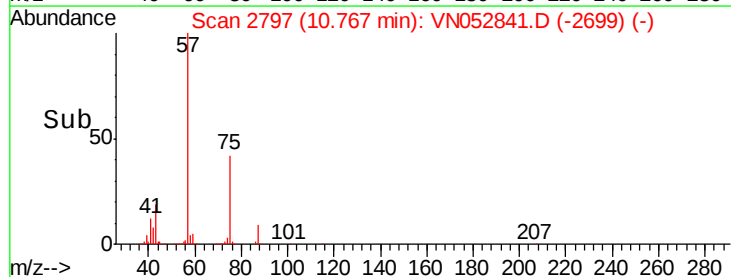
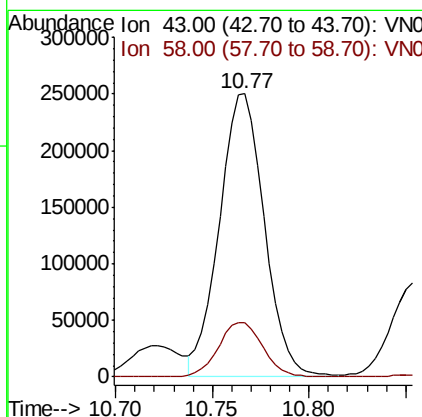
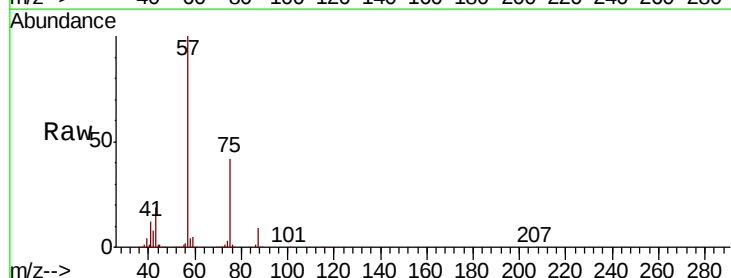
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115564ZHE#05

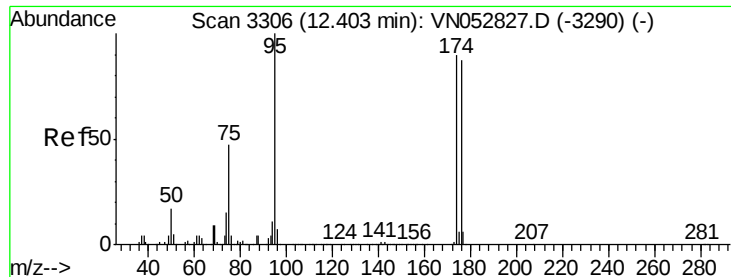
Tot Ion: 76 Resp: 28967
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 61.981 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.02 min
 Lab File: VN052841.D
 Acq: 12 Dec 2018 21:33

Tgt Ion: 43 Resp: 401487
 Ion Ratio Lower Upper
 43 100
 58 19.3 28.1 84.3#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#05

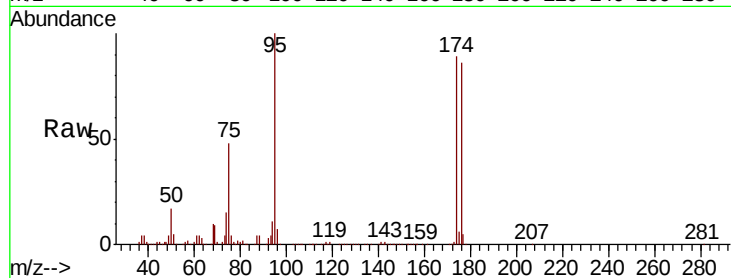
Tot Ion: 95 Resp: 735097

Ion Ratio Lower Upper

95 100

174 89.6 0.0 178.8

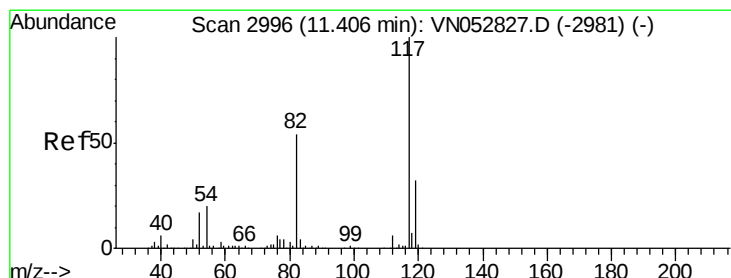
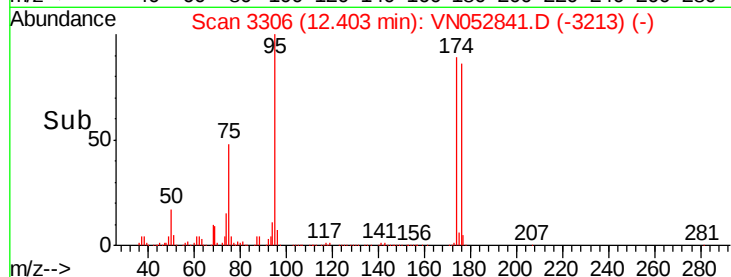
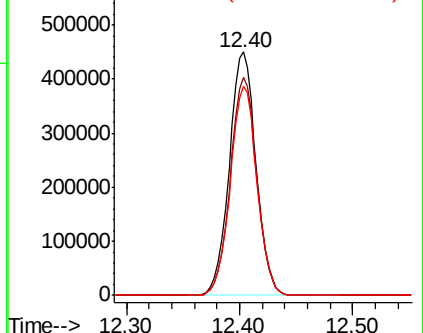
176 86.1 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052827.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN052827.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN052827.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

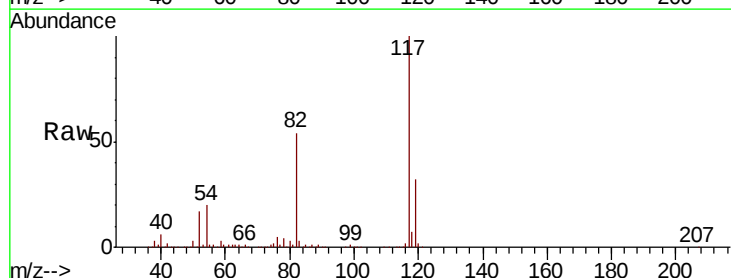
Tgt Ion: 117 Resp: 1634904

Ion Ratio Lower Upper

117 100

82 53.9 42.8 64.2

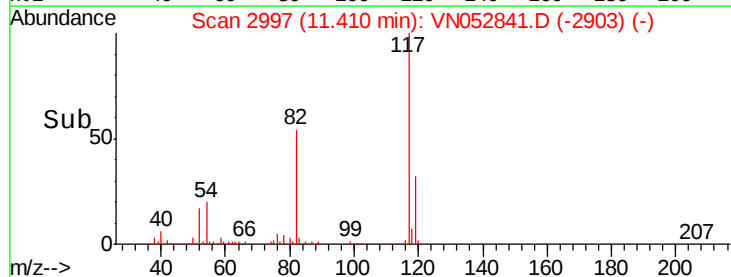
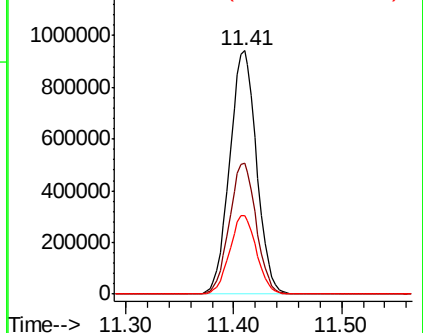
119 32.4 25.5 38.3

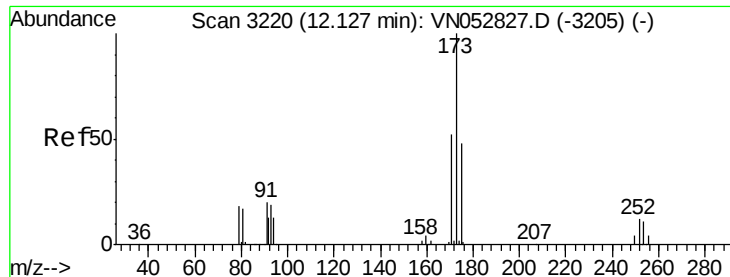


Abundance Ion 116.90 (116.60 to 117.60): VN052827.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052827.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052827.D (-2981) (-)





#71

Bromoform

Concen: 0.616 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#05

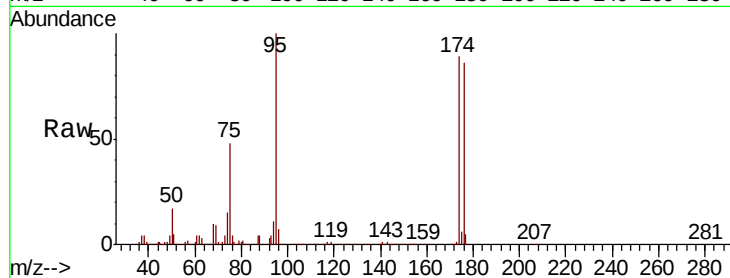
Tot Ion:173 Resp: 4935

Ion Ratio Lower Upper

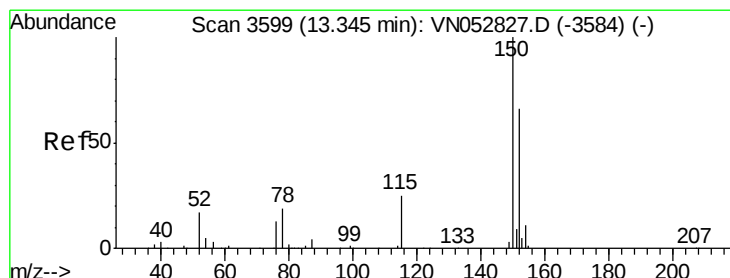
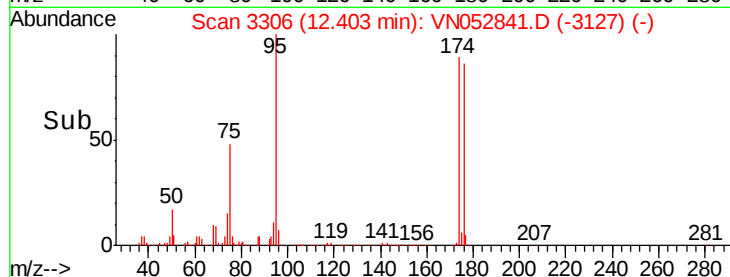
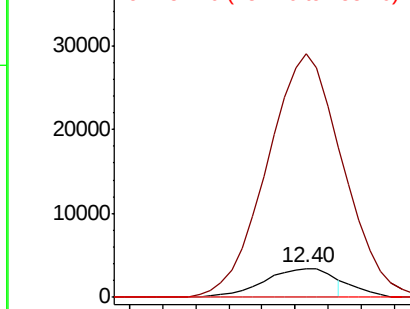
173 100

175 795.0 24.3 72.9#

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: VN052841.D

Acq: 12 Dec 2018 21:33

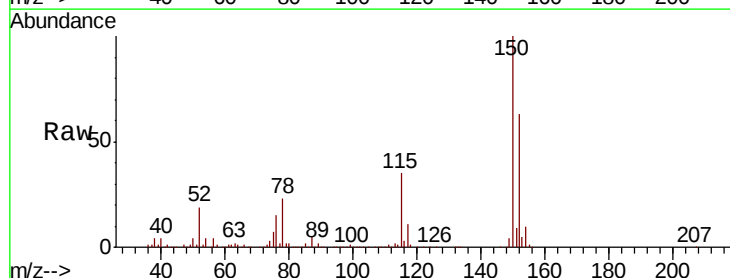
Tgt Ion:152 Resp: 681963

Ion Ratio Lower Upper

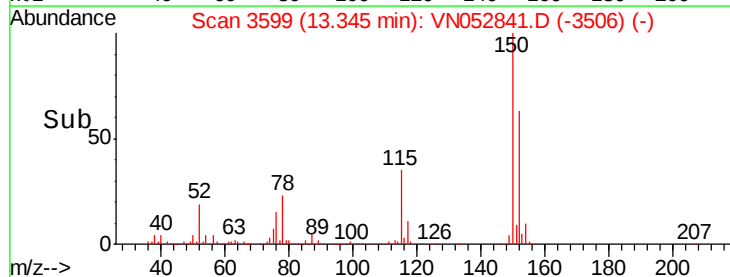
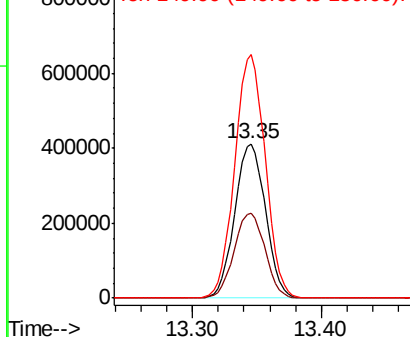
152 100

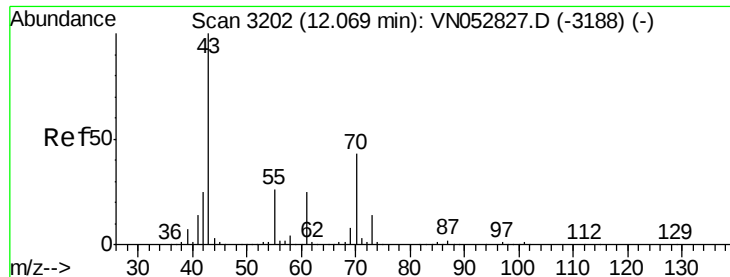
115 55.4 28.3 85.0

150 156.8 0.0 347.8



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-amvl acetate

Concen: 3.627 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

PB115564ZHE#05

Tot Ion: 43 Resp: 50705

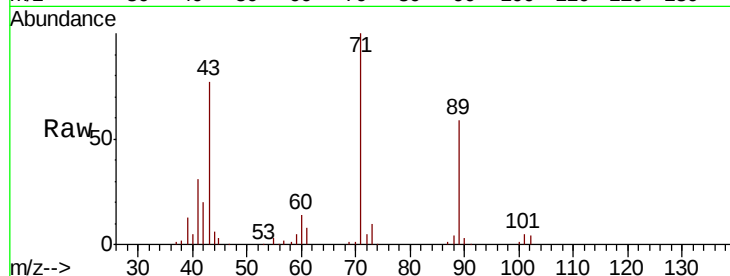
Ion Ratio Lower Upper

43 100

70 2.1 34.2 51.4#

55 4.1 20.3 30.5#

61 10.1 20.0 30.0#

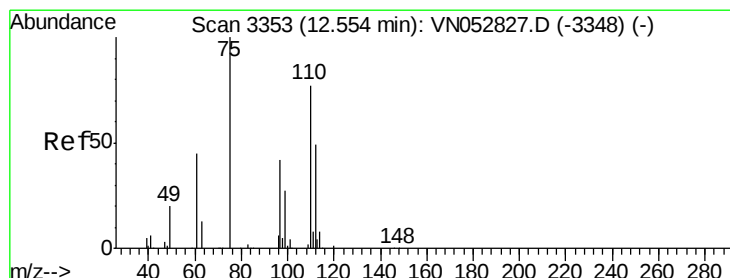
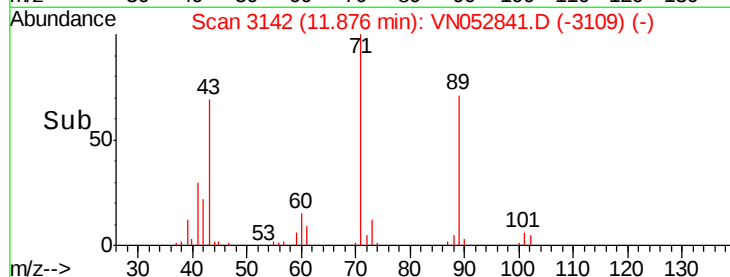
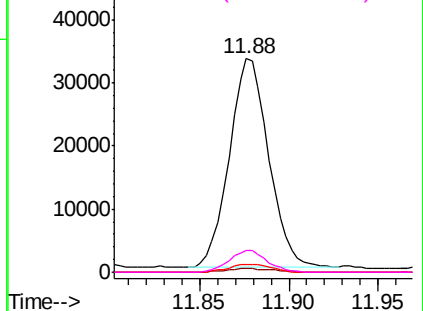


Abundance Ion 43.00 (42.70 to 43.70): VN0

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



#76

1,2,3-Trichloropropane

Concen: 34.954 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052841.D

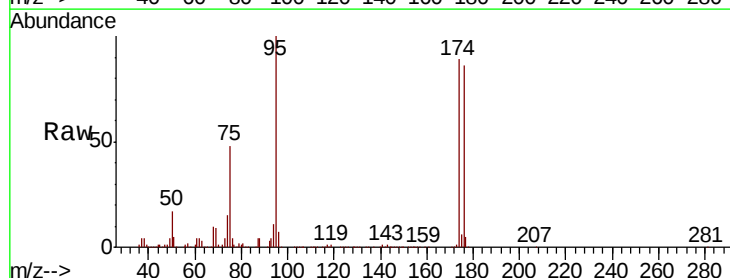
Acq: 12 Dec 2018 21:33

Tgt Ion: 75 Resp: 351693

Ion Ratio Lower Upper

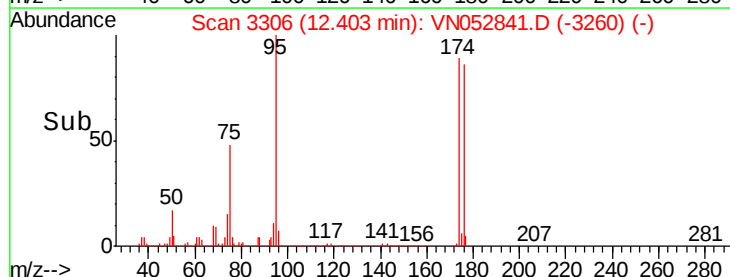
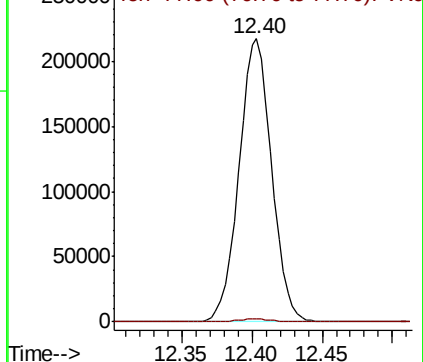
75 100

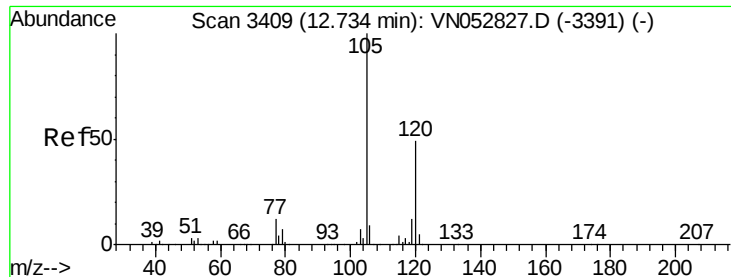
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.304 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

Instrument :

MSVOA_N

ClientSampleId :

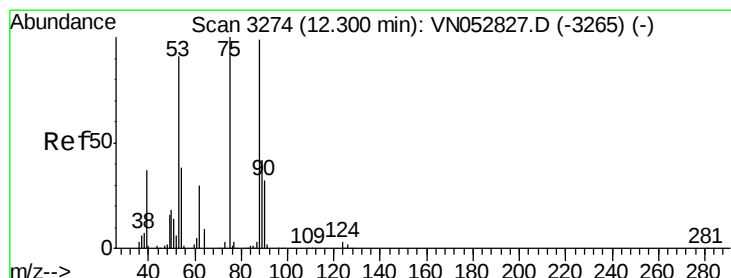
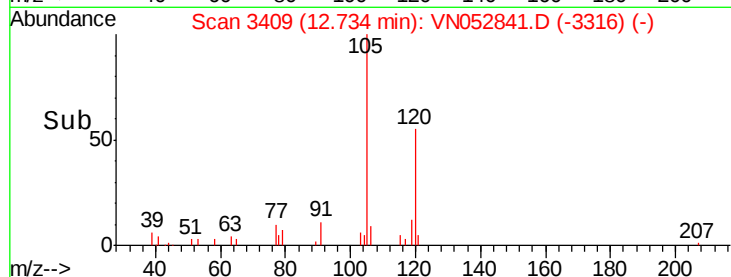
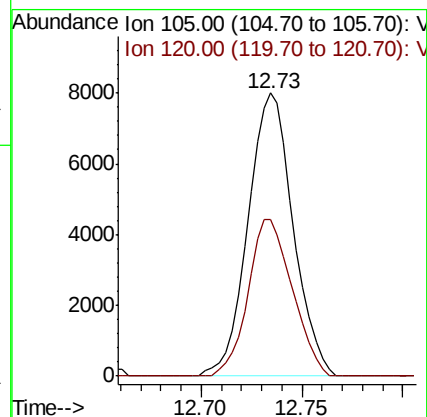
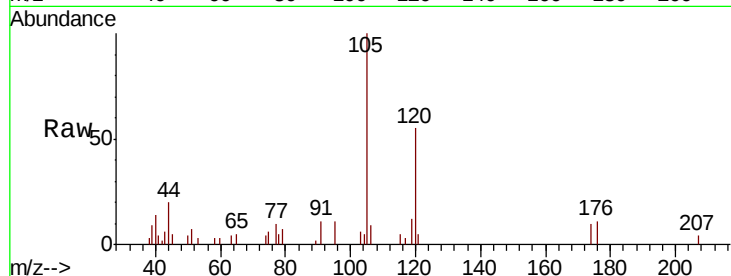
PB115564ZHE#05

Tot Ion:105 Resp: 12494

Ion Ratio Lower Upper

105 100

120 54.2 24.4 73.2



#81

trans-1,4-Dichloro-2-butene

Concen: 112.289 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052841.D

Acq: 12 Dec 2018 21:33

Tgt Ion: 75 Resp: 351693

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#

