

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111918\
 Data File : VN052391.D
 Acq On : 19 Nov 2018 18:00
 Operator : MD\SY
 Sample : PB114846ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#07

Quant Time: Nov 20 07:13:40 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 15 03:02:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	291870	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	493017	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	417846	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	143231	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	215527	52.28	ug/l	0.00
Spiked Amount			Recovery	=	104.56%	
35) Dibromofluoromethane	7.59	113	160763	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
50) Toluene-d8	10.09	98	622822	49.79	ug/l	0.00
Spiked Amount			Recovery	=	99.58%	
62) 4-Bromofluorobenzene	12.40	95	180778	43.93	ug/l	0.00
Spiked Amount			Recovery	=	87.86%	

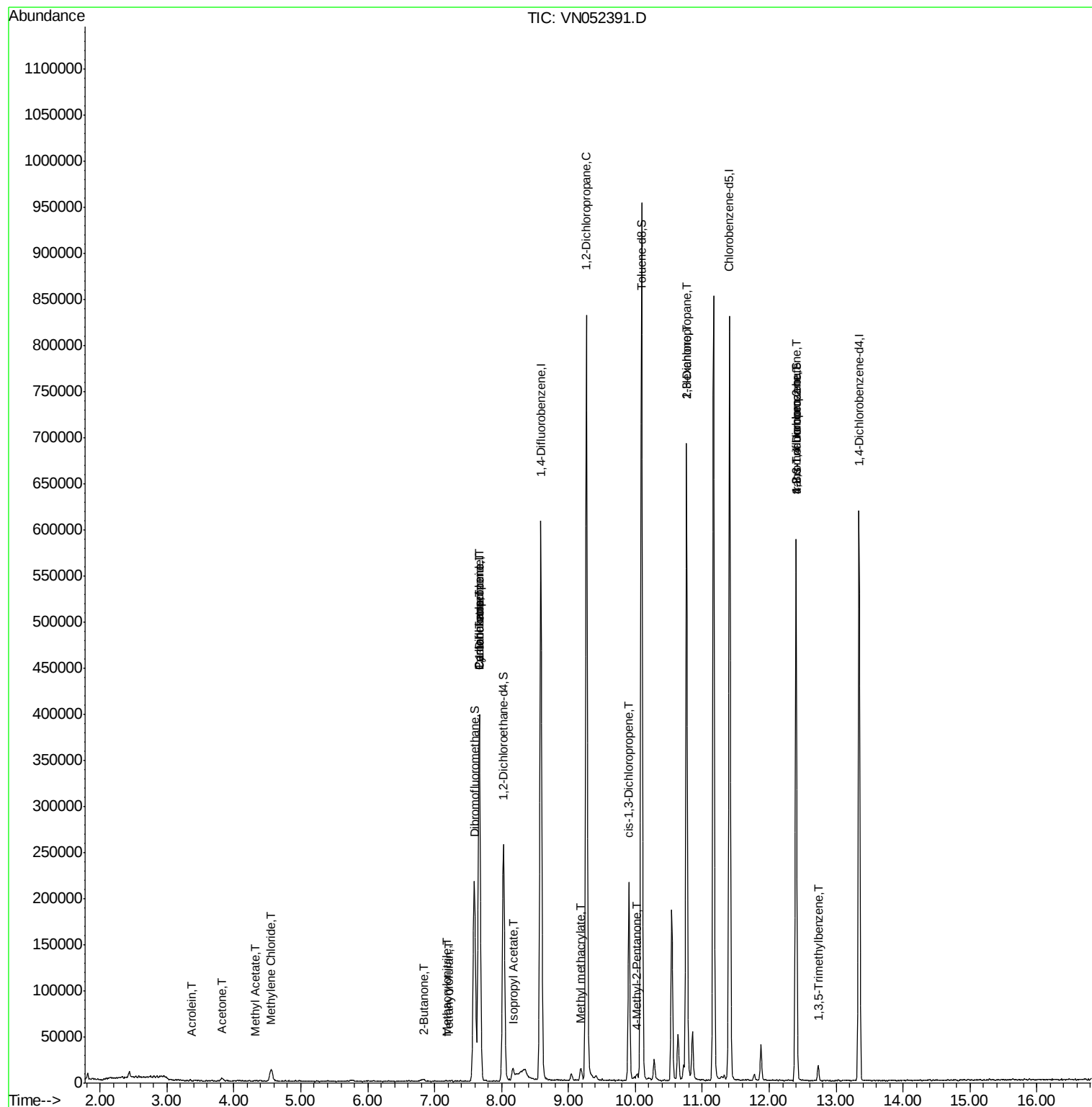
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.38	56	62	21.943	ug/l #	14
16) Acetone	3.82	43	5276	4.648	ug/l	97
18) Methyl Acetate	4.32	43	661	0.638	ug/l #	57
20) Methylene Chloride	4.56	84	8151	1.684	ug/l	90
25) 2-Butanone	6.84	43	951	0.595	ug/l #	52
29) Tetrahydrofuran	7.21	42	399	0.380	ug/l #	40
31) Cyclohexane	7.67	56	8681	0.332	ug/l #	7
36) 1,1-Dichloropropene	7.67	75	27157	5.496	ug/l #	50
38) Carbon Tetrachloride	7.67	117	30825	6.790	ug/l #	16
41) Methacrylonitrile	7.18	41	64	3.725	ug/l #	100
43) Isopropyl Acetate	8.17	43	18006	2.602	ug/l #	91
45) 1,2-Dichloropropane	9.27	63	1129	0.282	ug/l #	44
48) Methyl methacrylate	9.18	41	5586	1.591	ug/l #	16
51) 4-Methyl-2-Pentanone	10.02	43	5398	1.550	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	31996	5.847	ug/l #	73
57) 1,3-Dichloropropane	10.76	76	6603	1.218	ug/l #	43
59) 2-Hexanone	10.76	43	117772	49.153	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	104542	43.015	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7514	0.821	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	104542	139.514	ug/l #	5

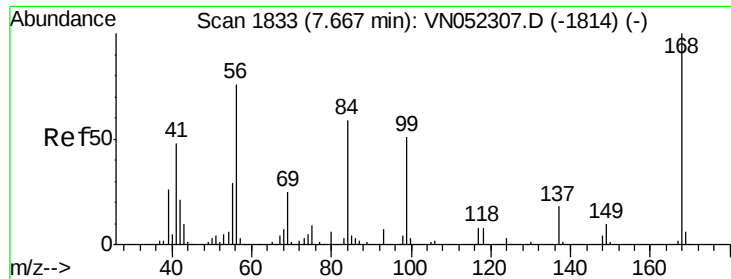
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 15 03:02:37 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: VN052391.D

Acq: 19 Nov 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

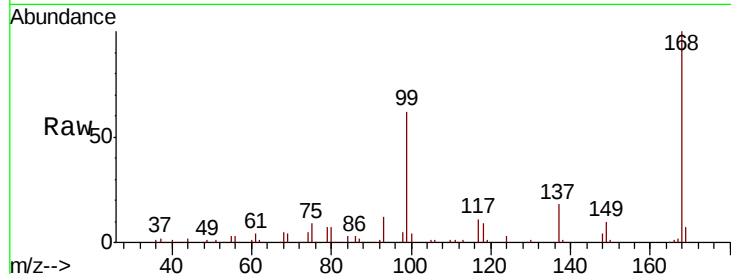
PB114846ZHE#07

Tot Ion:168 Resp: 291870

Ion Ratio Lower Upper

168 100

99 61.9 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VN052307.D (-1814) (-)

Ion 98.90 (98.60 to 99.60): VN052307.D (-1814) (-)

7.67

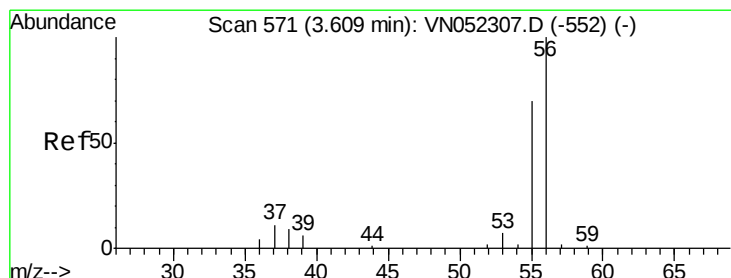
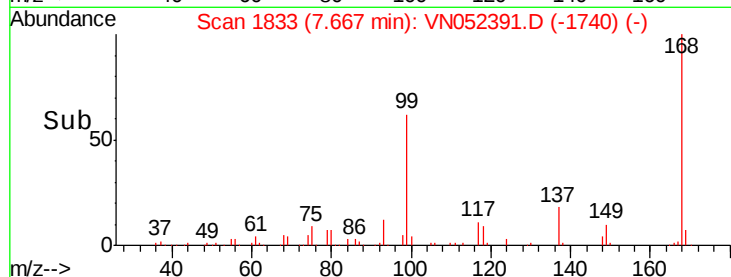
100000

50000

0

Time-->

7.60 7.70



#13

Acrolein

Concen: 21.943 ug/l

RT: 3.38 min Scan# 501

Delta R.T. -0.22 min

Lab File: VN052391.D

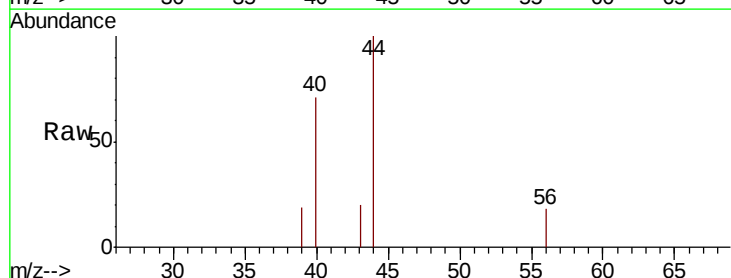
Acq: 19 Nov 2018 18:00

Tgt Ion: 56 Resp: 62

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#



Abundance Ion 56.00 (55.70 to 56.70): VN052307.D (-552) (-)

Ion 55.00 (54.70 to 55.70): VN052307.D (-552) (-)

3.38

200

150

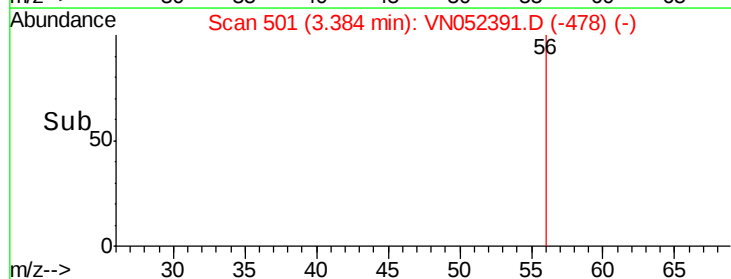
100

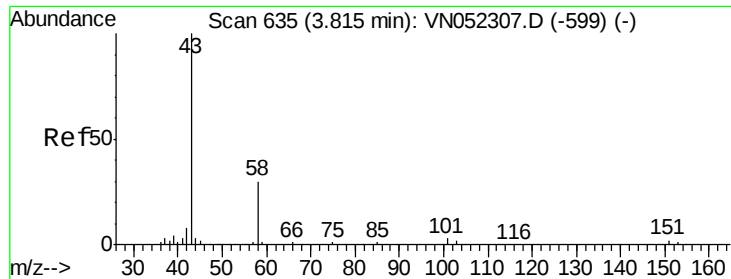
50

0

Time-->

3.37 3.38 3.39





#16

Acetone

Concen: 4.648 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

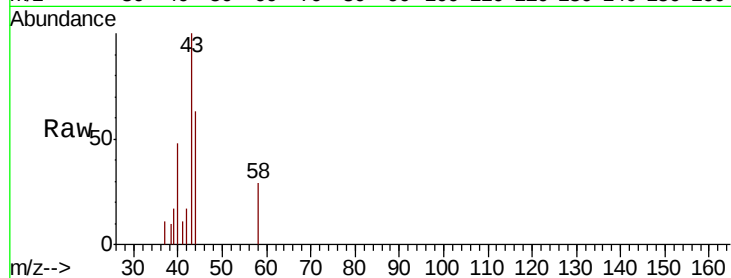
PB114846ZHE#07

Tot Ion: 43 Resp: 5276

Ion Ratio Lower Upper

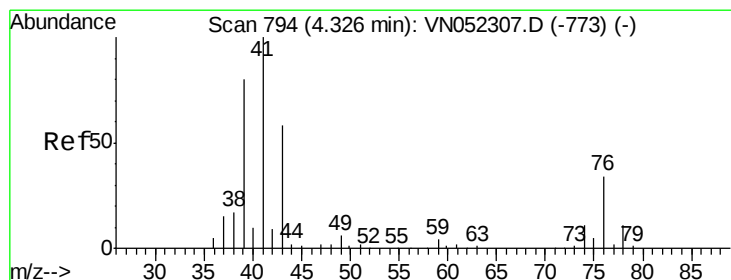
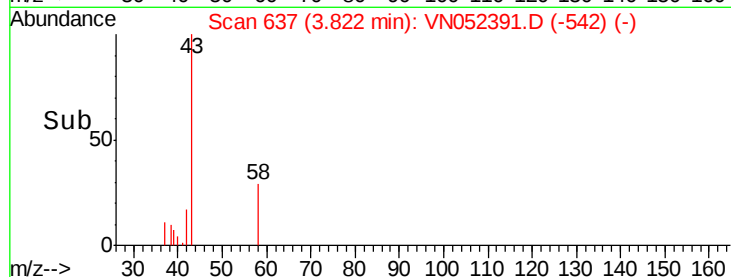
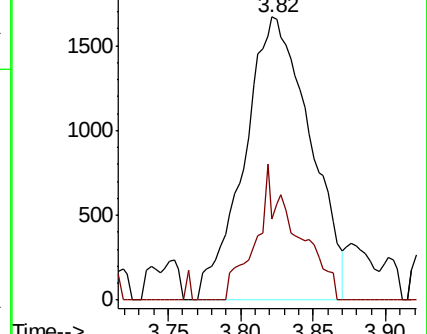
43 100

58 28.8 24.2 36.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.638 ug/l

RT: 4.32 min Scan# 791

Delta R.T. -0.01 min

Lab File: VN052391.D

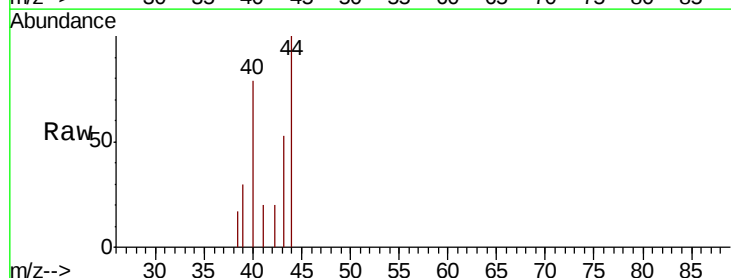
Acq: 19 Nov 2018 18:00

Tgt Ion: 43 Resp: 661

Ion Ratio Lower Upper

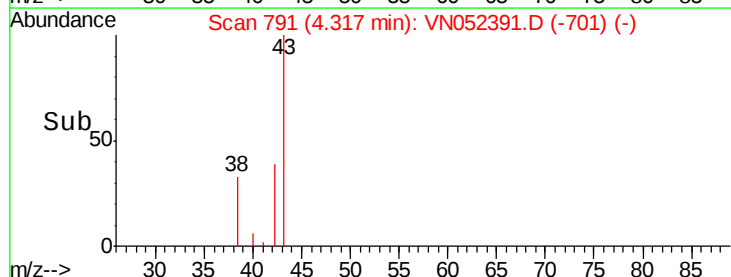
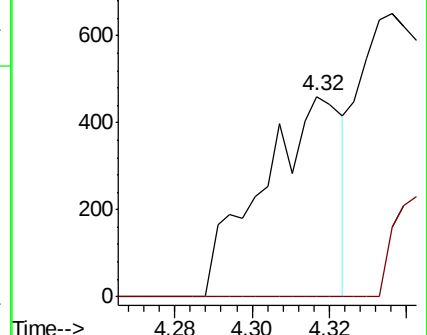
43 100

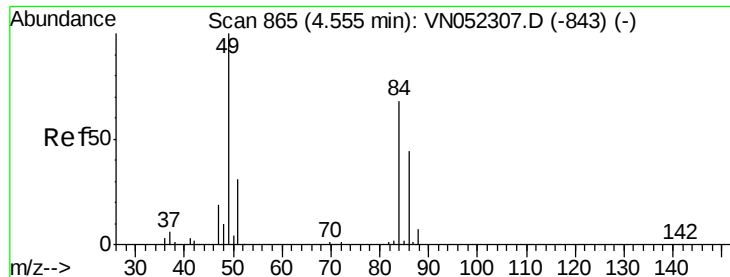
74 0.0 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

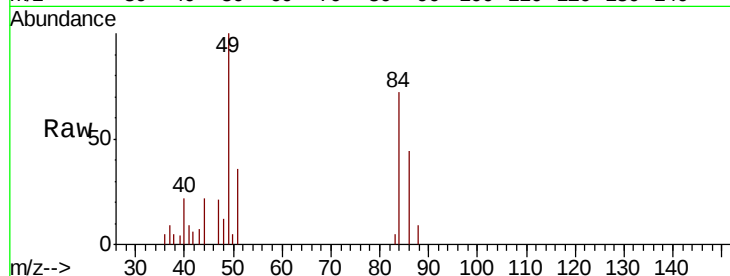




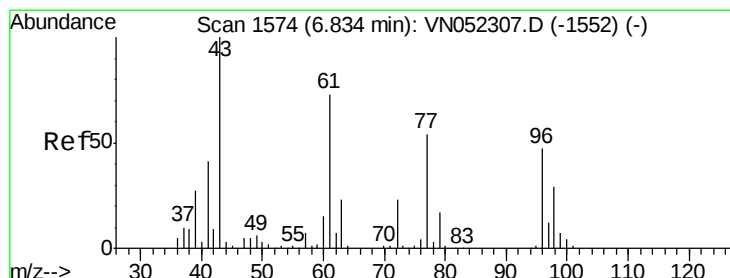
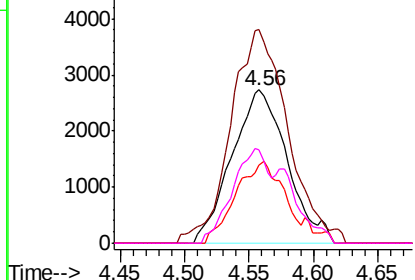
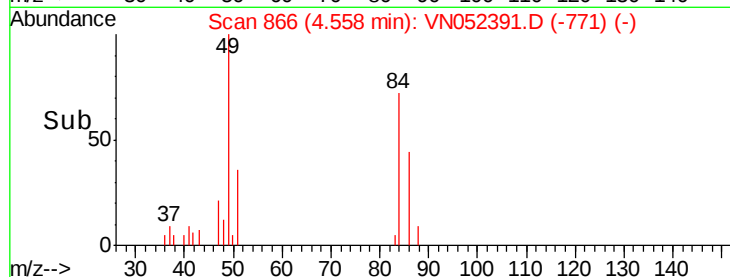
#20
Methvlene Chloride
Concen: 1.684 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052391.D
Acq: 19 Nov 2018 18:00

Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#07

Tot Ion: 84 Resp: 8151
Ion Ratio Lower Upper
84 100
49 132.5 118.2 177.2
51 50.8 36.1 54.1
86 60.8 51.6 77.4

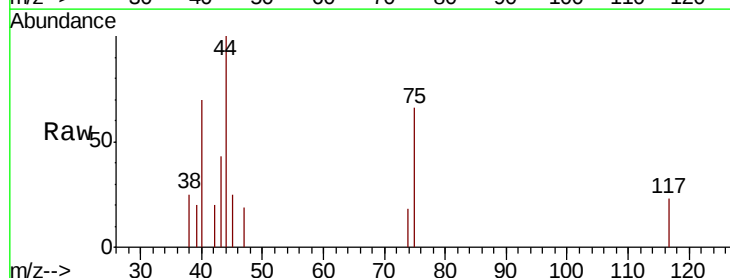


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

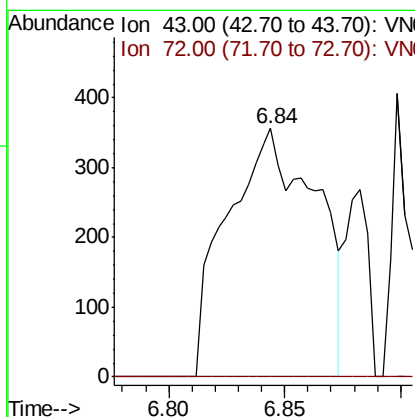
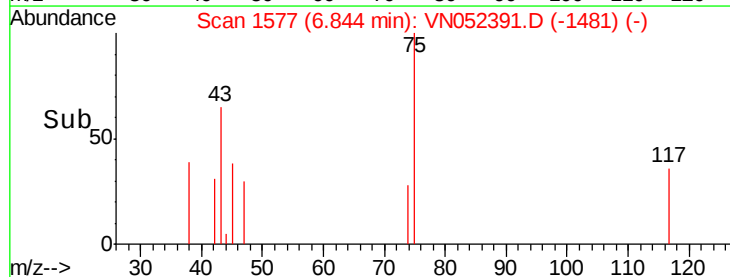


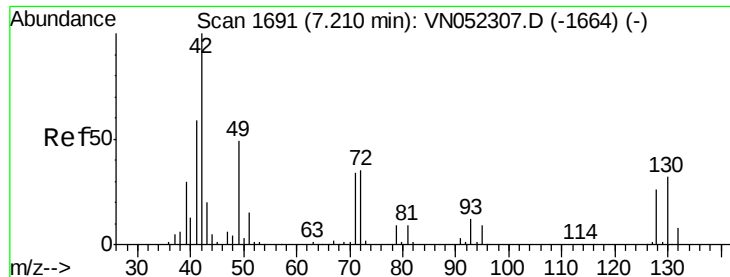
#25
2-Butanone
Concen: 0.595 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052391.D
Acq: 19 Nov 2018 18:00

Tgt Ion: 43 Resp: 951
Ion Ratio Lower Upper
43 100
72 0.0 18.6 27.8#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC





#29

Tetrahydrofuran

Concen: 0.380 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#07

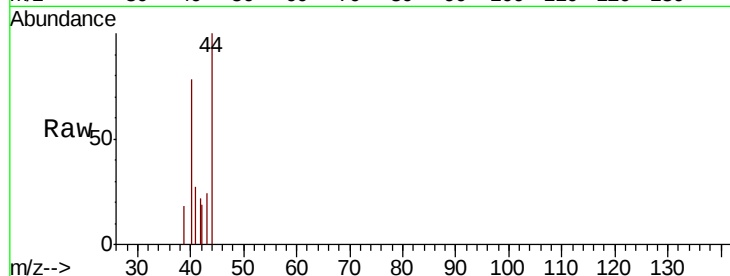
Tot Ion: 42 Resp: 399

Ion Ratio Lower Upper

42 100

72 0.0 28.6 42.8#

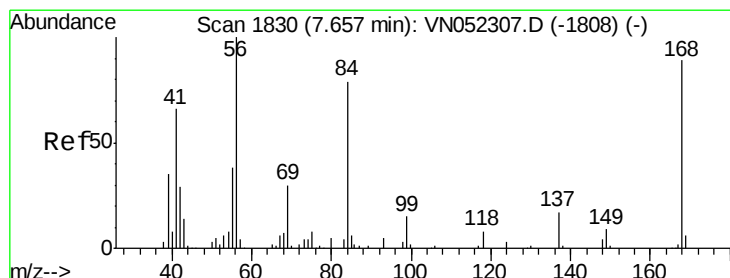
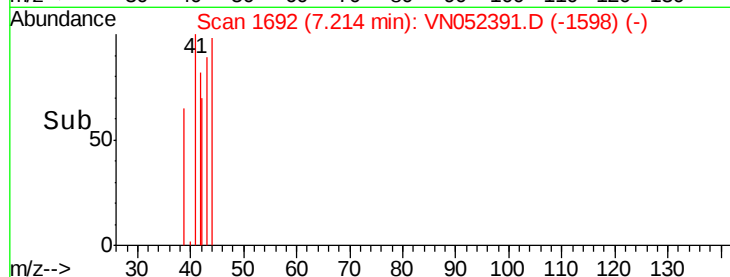
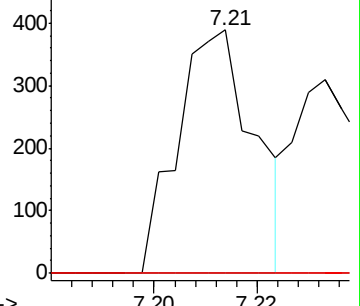
71 0.0 26.7 40.1#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.332 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

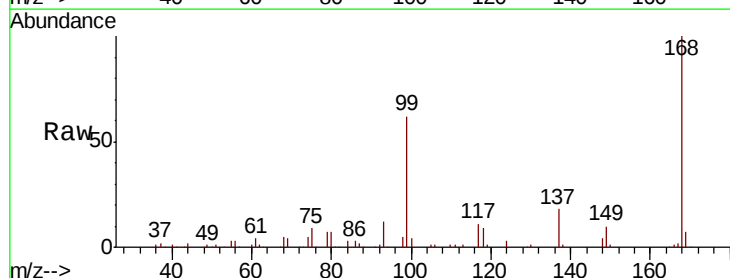
Tgt Ion: 56 Resp: 8681

Ion Ratio Lower Upper

56 100

69 146.8 23.8 35.8#

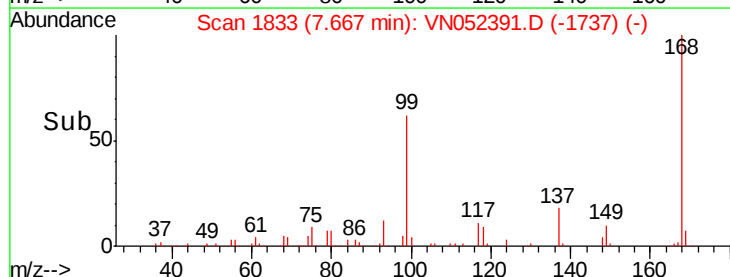
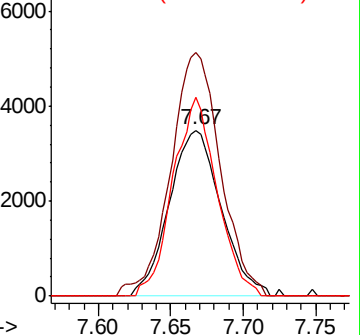
84 119.9 63.0 94.6#

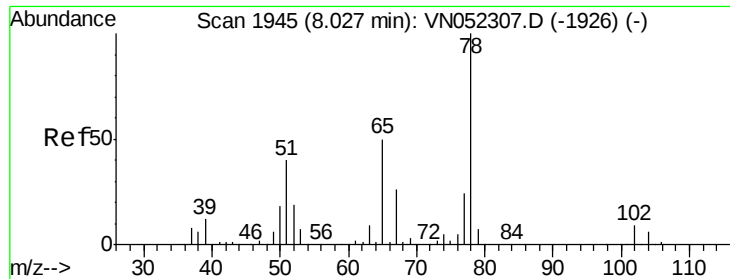


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

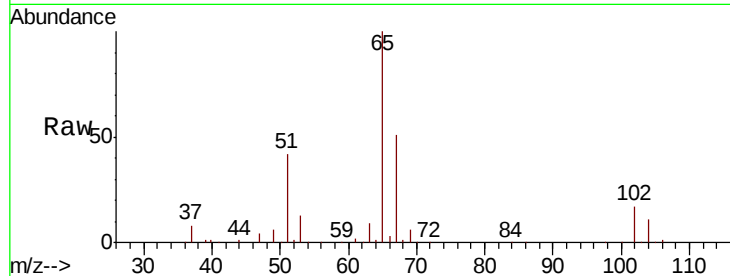
PB114846ZHE#07

Tot Ion: 65 Resp: 21527

Ion Ratio Lower Upper

65 100

67 50.8 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

100000

80000

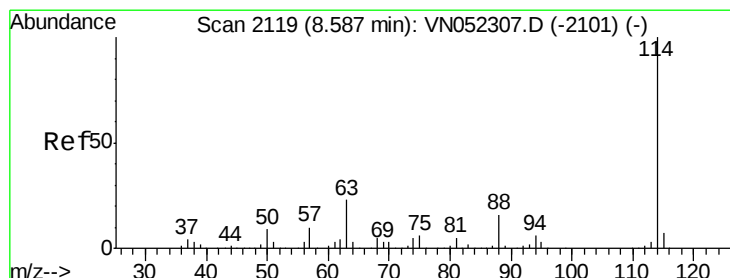
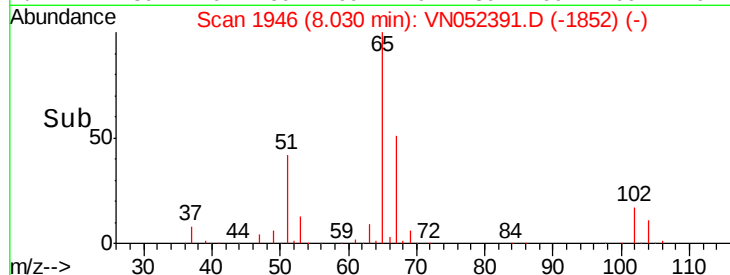
60000

40000

20000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

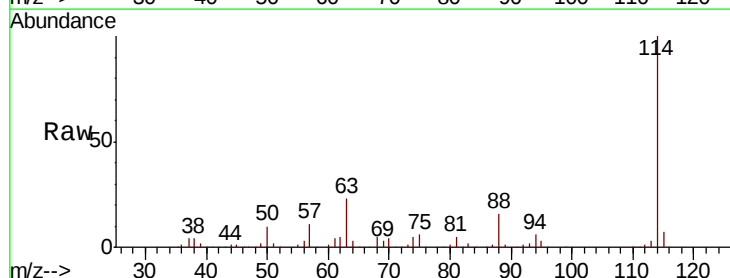
Tgt Ion: 114 Resp: 493017

Ion Ratio Lower Upper

114 100

63 23.3 0.0 45.4

88 15.8 0.0 31.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

300000

250000

200000

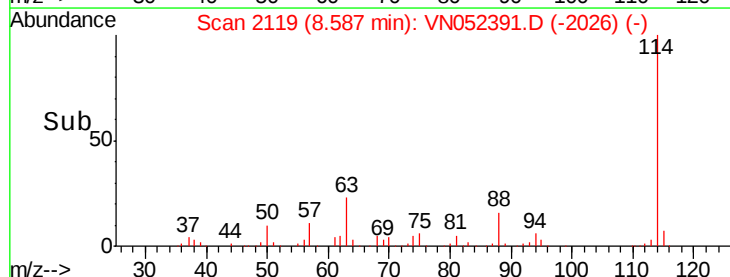
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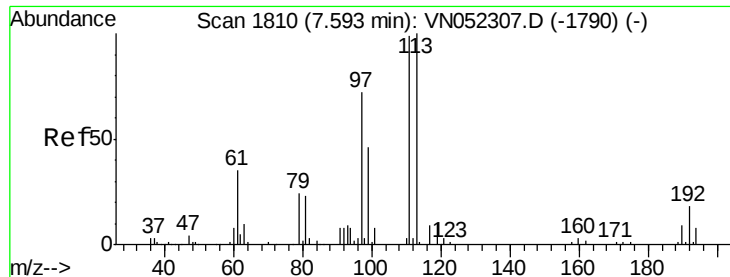
100000

50000

0

Time--> 8.50 8.60 8.70

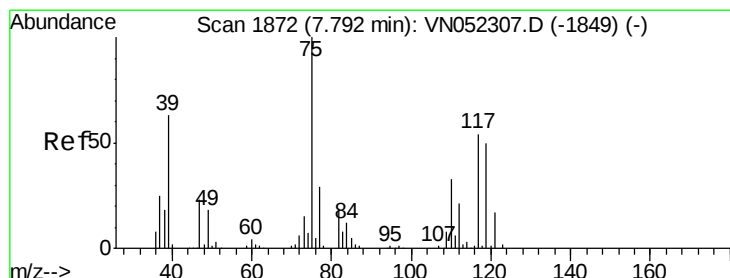
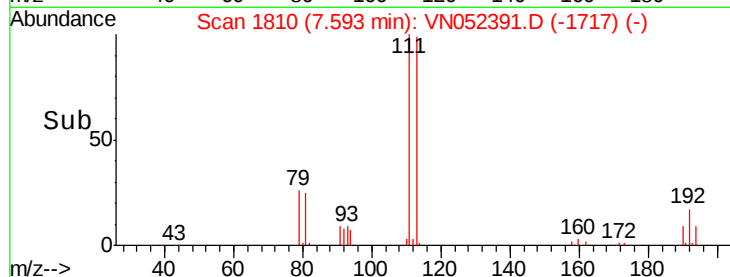
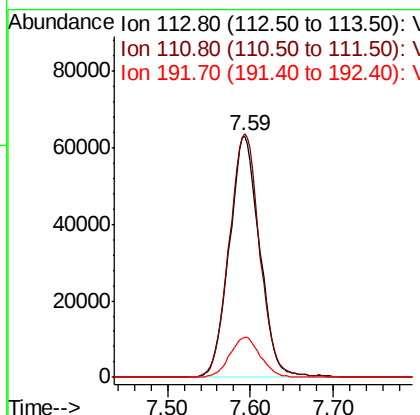
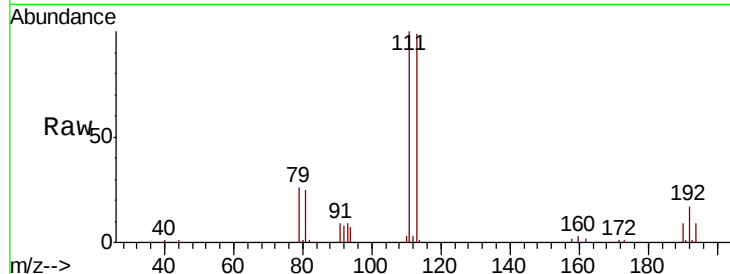




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052391.D
 Acq: 19 Nov 2018 18:00

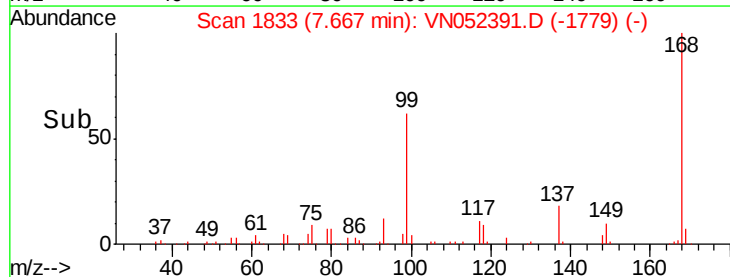
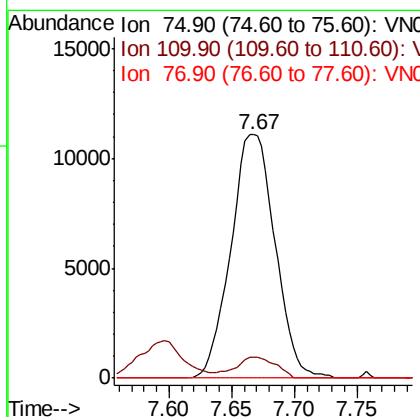
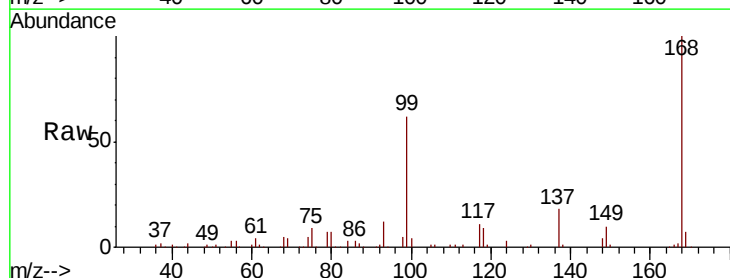
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#07

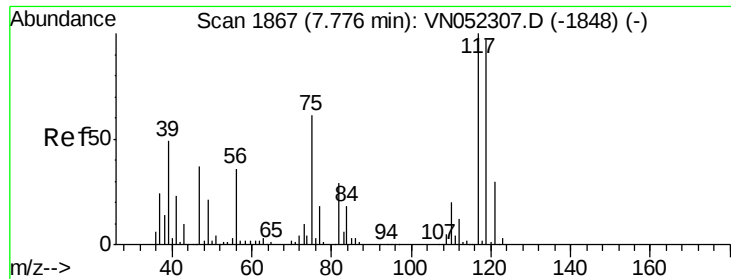
Tot Ion:113 Resp: 160763
 Ion Ratio Lower Upper
 113 100
 111 101.6 81.0 121.6
 192 16.7 13.8 20.6



#36
 1,1-Dichloropropene
 Concen: 5.496 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052391.D
 Acq: 19 Nov 2018 18:00

Tgt Ion: 75 Resp: 27157
 Ion Ratio Lower Upper
 75 100
 110 7.7 16.5 49.5#
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.790 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#07

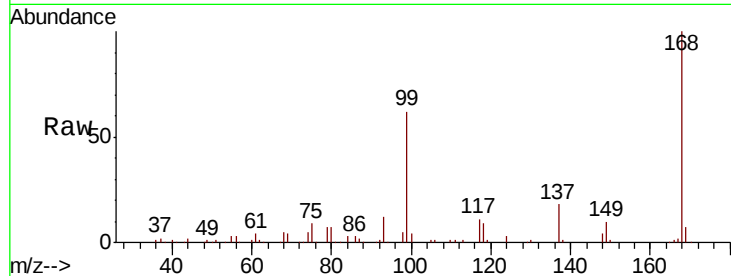
Tot Ion: 117 Resp: 30825

Ion Ratio Lower Upper

117 100

119 5.6 77.4 116.0#

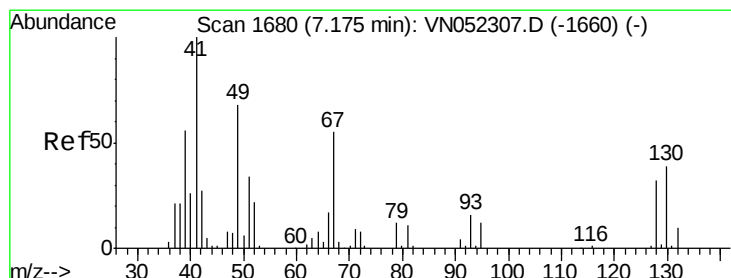
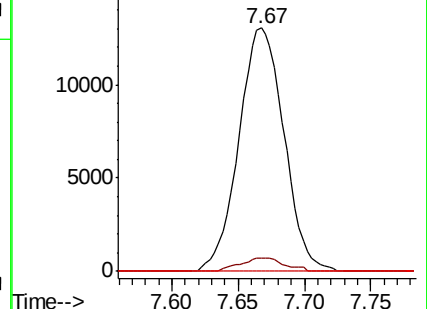
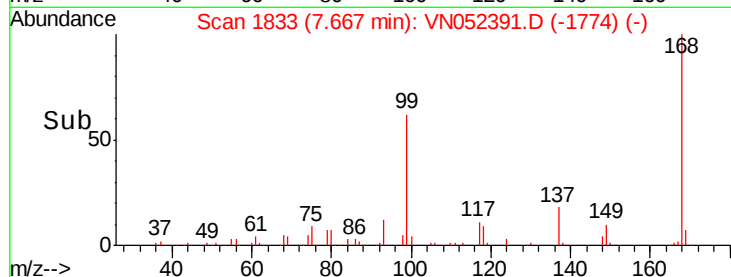
121 0.0 24.0 36.0#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#41

Methacrylonitrile

Concen: 3.725 ug/l

RT: 7.18 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

Tgt Ion: 41 Resp: 64

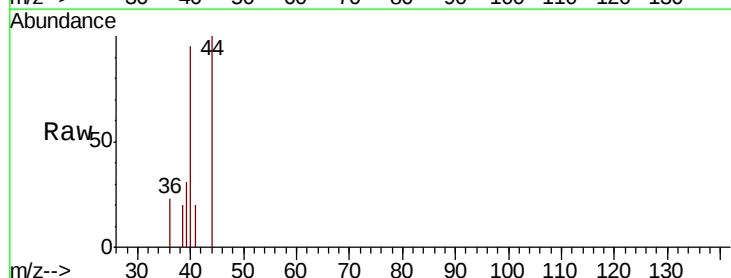
Ion Ratio Lower Upper

41 100

39 273.4 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

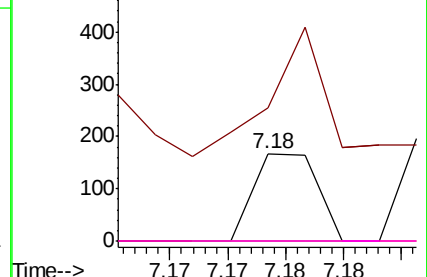
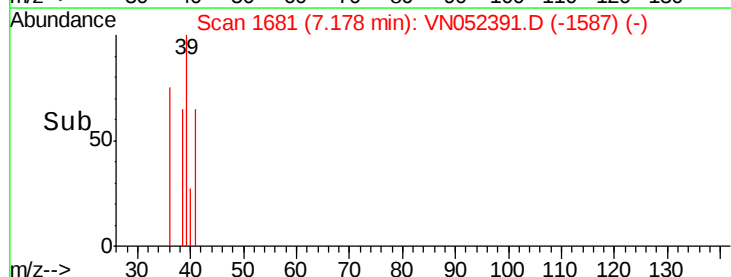


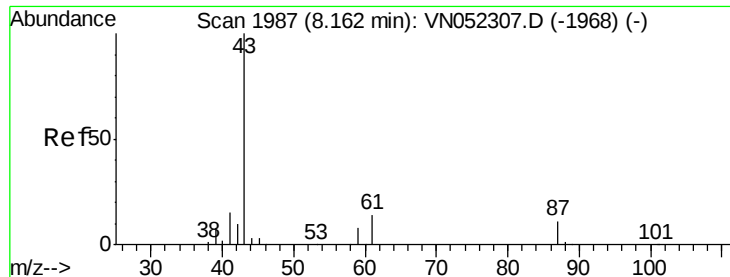
Abundance Ion 41.00 (40.70 to 41.70): V

Ion 39.00 (38.70 to 39.70): V

Ion 67.00 (66.70 to 67.70): V

Ion 52.00 (51.70 to 52.70): V





#43

Isopropyl Acetate

Concen: 2.602 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#07

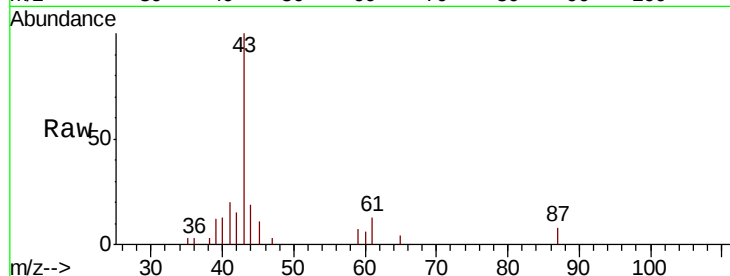
Tot Ion: 43 Resp: 18006

Ion Ratio Lower Upper

43 100

61 14.1 12.0 18.0

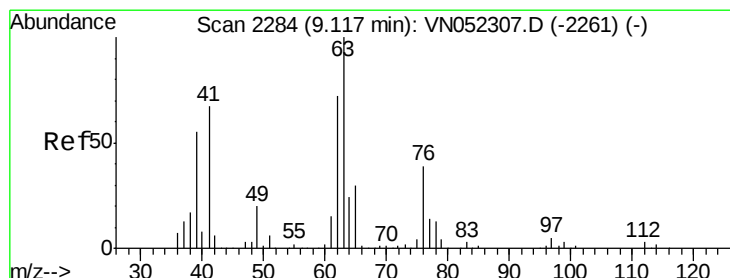
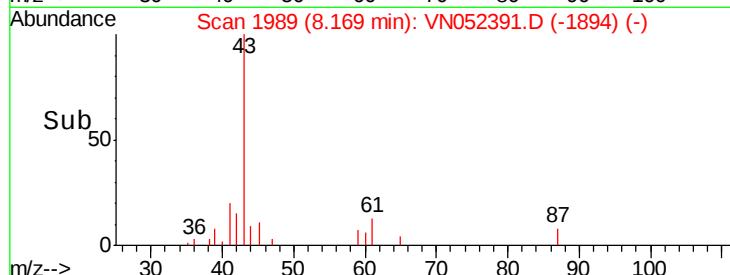
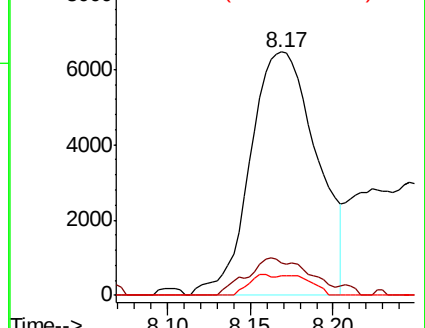
87 3.4 8.3 12.5#



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: 0.282 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN052391.D

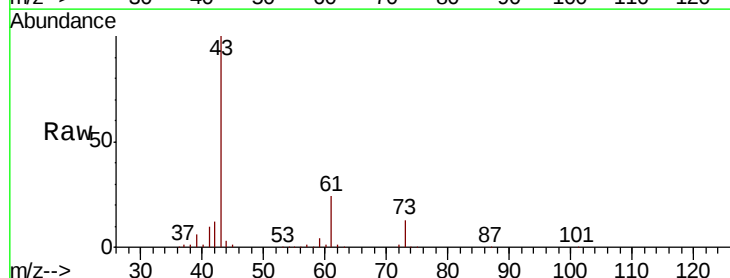
Acq: 19 Nov 2018 18:00

Tgt Ion: 63 Resp: 1129

Ion Ratio Lower Upper

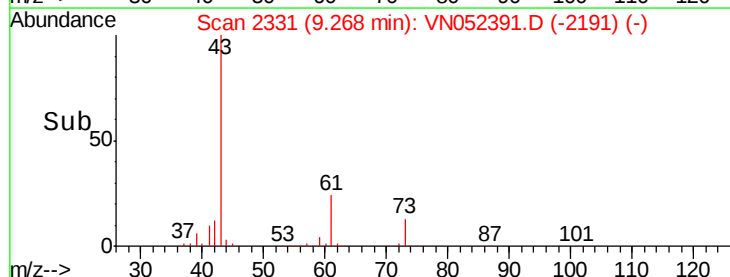
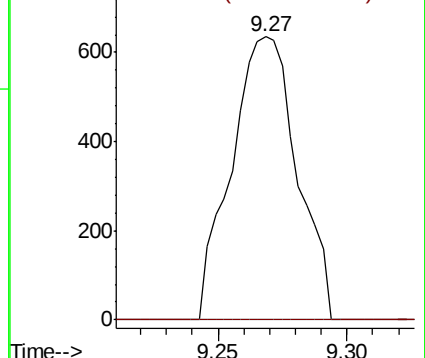
63 100

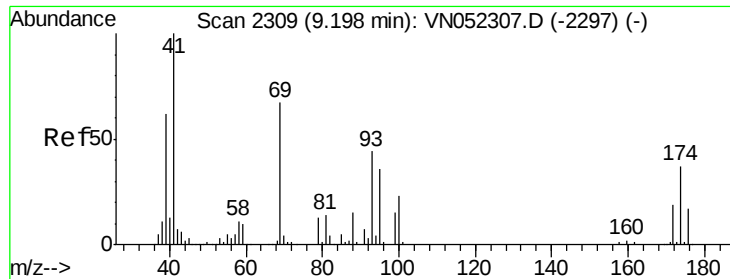
65 0.0 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

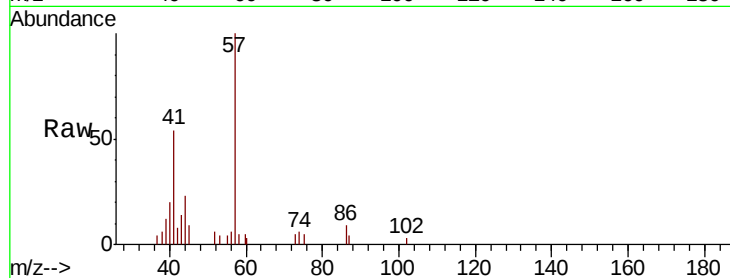




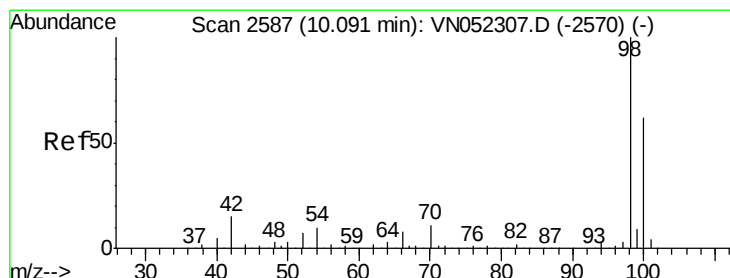
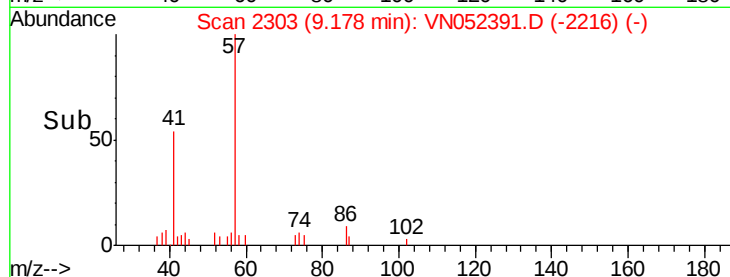
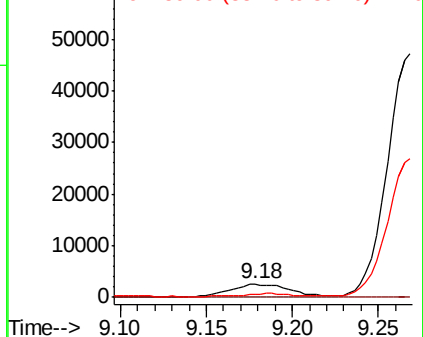
#48
Methyl methacrylate
Concen: 1.591 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN052391.D
Acq: 19 Nov 2018 18:00

Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#07

Tot Ion: 41 Resp: 5586
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 0.0 52.5 78.7#

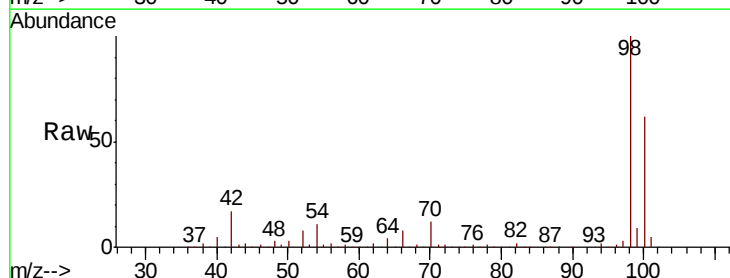


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

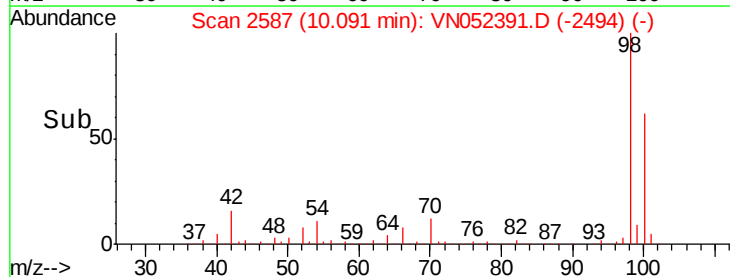
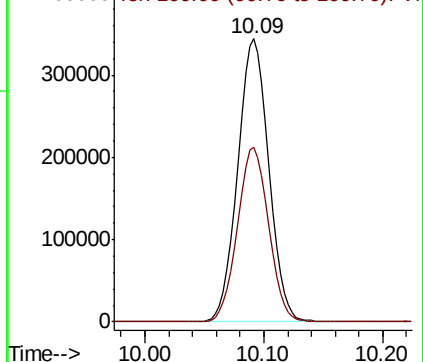


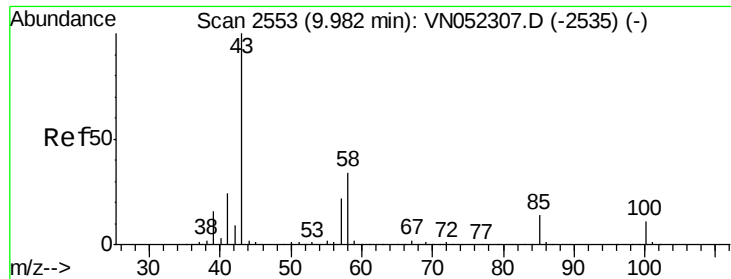
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN052391.D
Acq: 19 Nov 2018 18:00

Tgt Ion: 98 Resp: 622822
Ion Ratio Lower Upper
98 100
100 61.9 49.5 74.3



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: 1.550 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

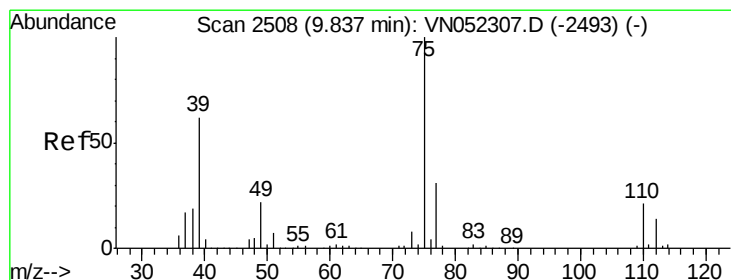
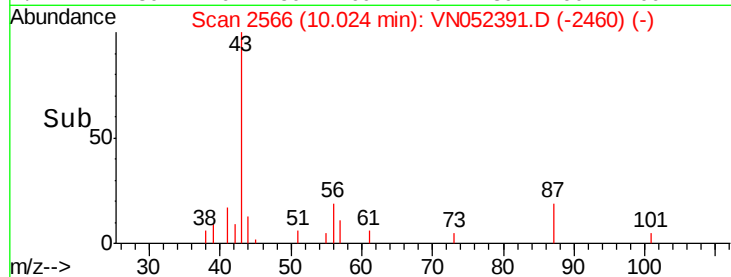
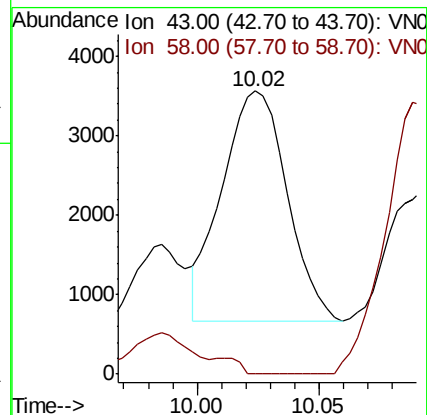
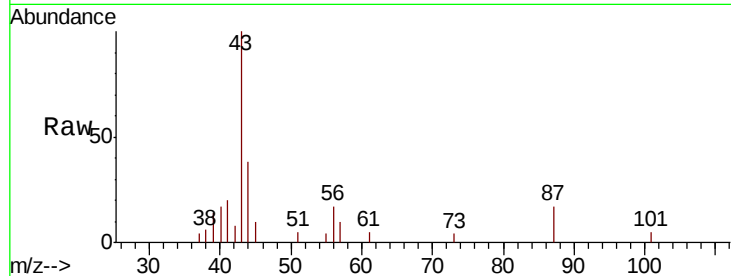
PB114846ZHE#07

Tot Ion: 43 Resp: 5398

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



#54

cis-1,3-Dichloropropene

Concen: 5.847 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

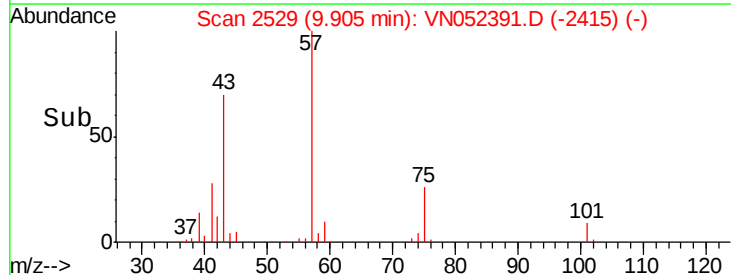
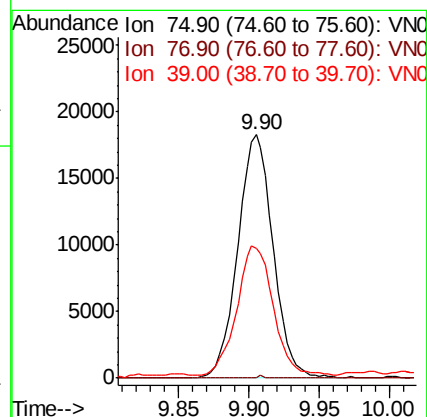
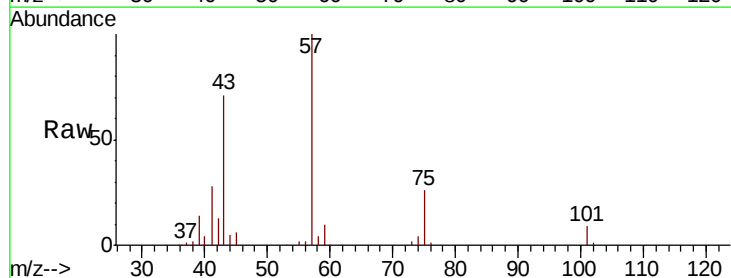
Tgt Ion: 75 Resp: 31996

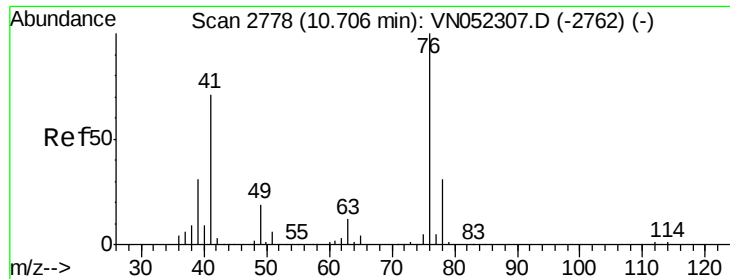
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 52.3 49.9 74.9





#57

1,3-Dichloropropane

Concen: 1.218 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

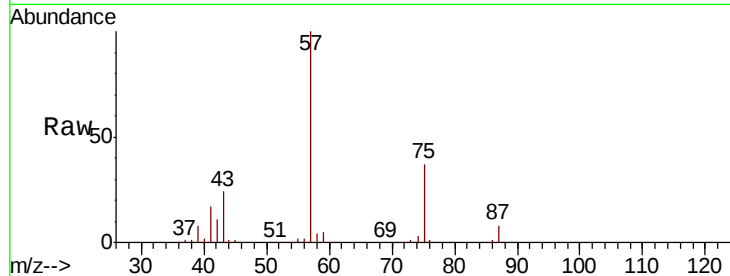
PB114846ZHE#07

Tot Ion: 76 Resp: 6603

Ion Ratio Lower Upper

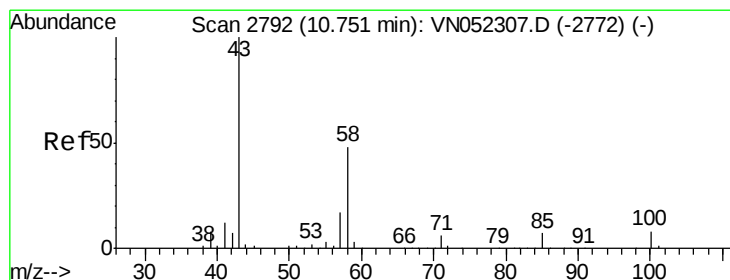
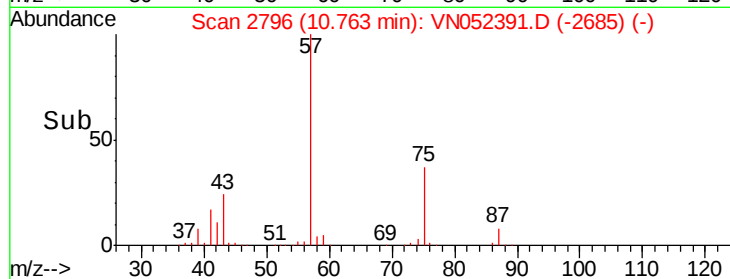
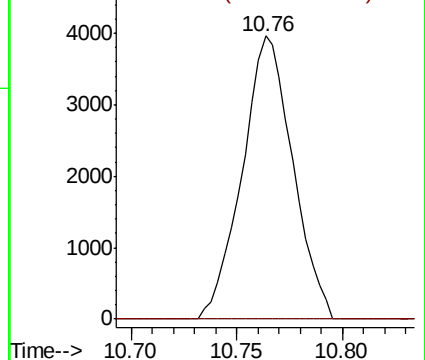
76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 49.153 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052391.D

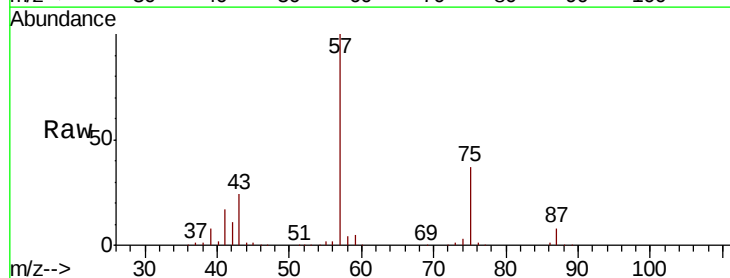
Acq: 19 Nov 2018 18:00

Tgt Ion: 43 Resp: 117772

Ion Ratio Lower Upper

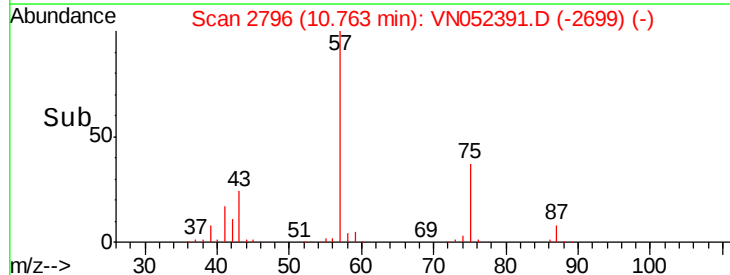
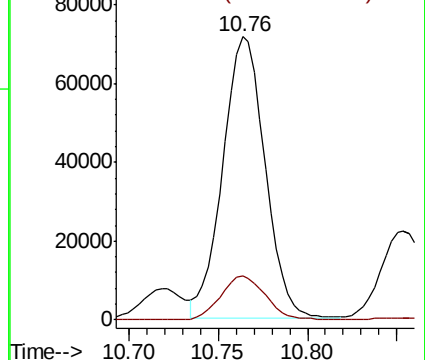
43 100

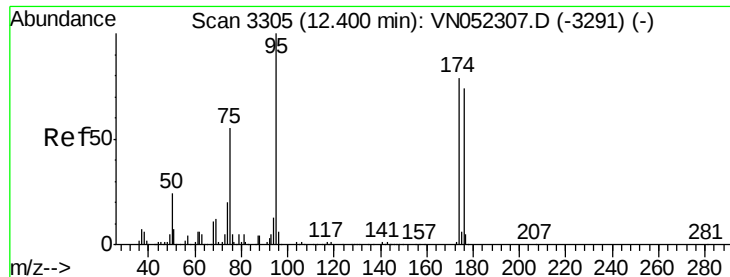
58 16.6 23.5 70.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#07

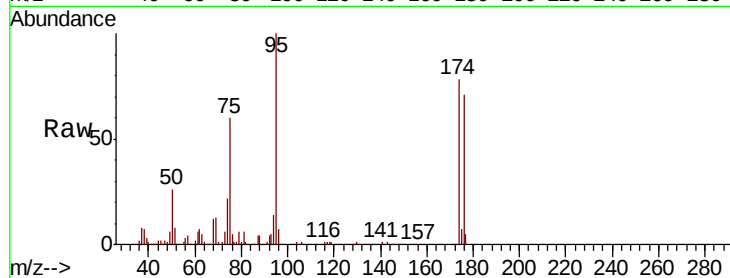
Tot Ion: 95 Resp: 180778

Ion Ratio Lower Upper

95 100

174 75.6 0.0 156.0

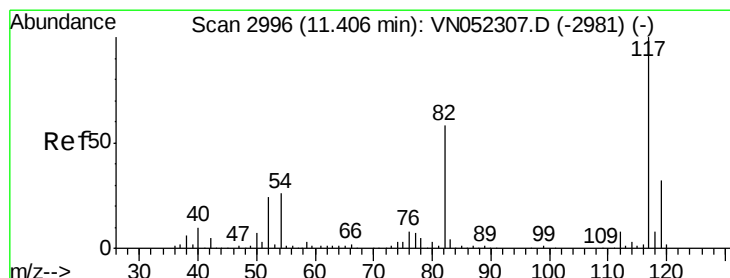
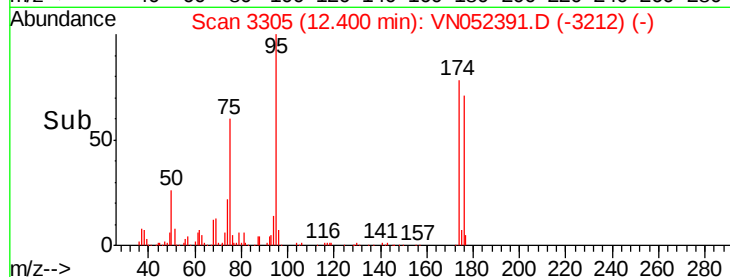
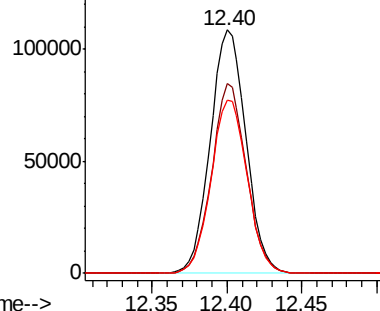
176 72.2 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052391.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052391.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052391.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

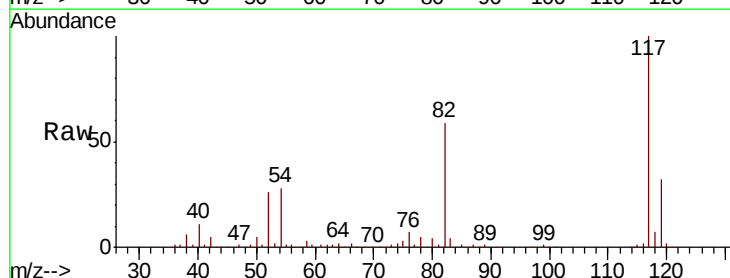
Tgt Ion: 117 Resp: 417846

Ion Ratio Lower Upper

117 100

82 59.3 46.5 69.7

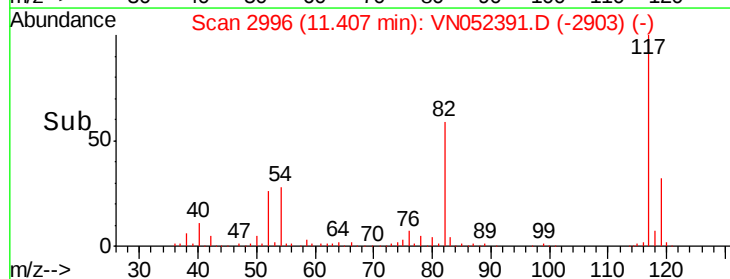
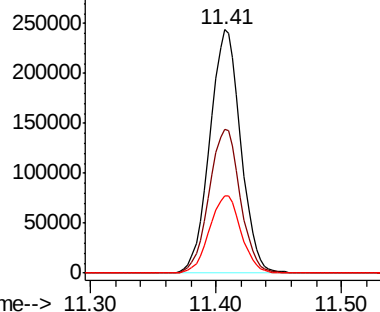
119 31.5 25.7 38.5

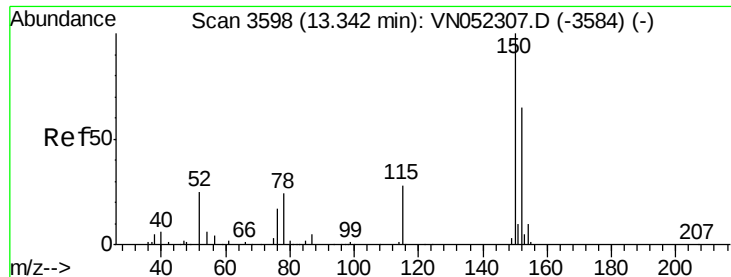


Abundance Ion 116.90 (116.60 to 117.60): VN052391.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052391.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052391.D (-2903) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#07

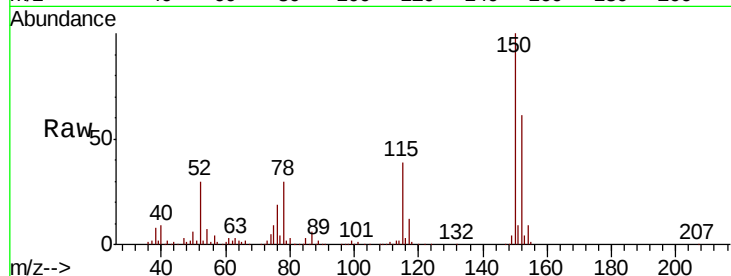
Tot Ion:152 Resp: 143231

Ion Ratio Lower Upper

152 100

115 62.3 30.3 91.0

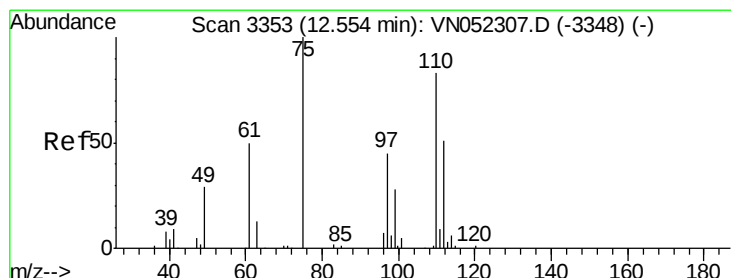
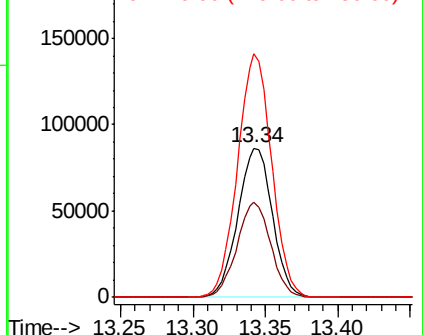
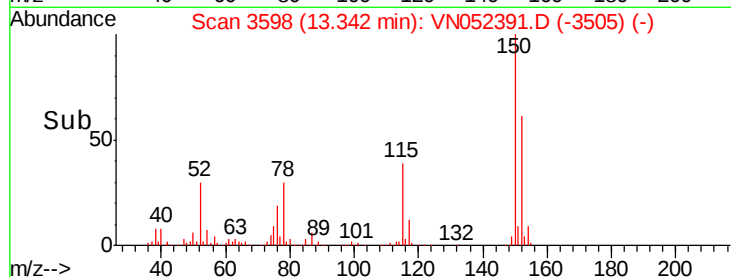
150 161.0 0.0 348.2



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: 43.015 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052391.D

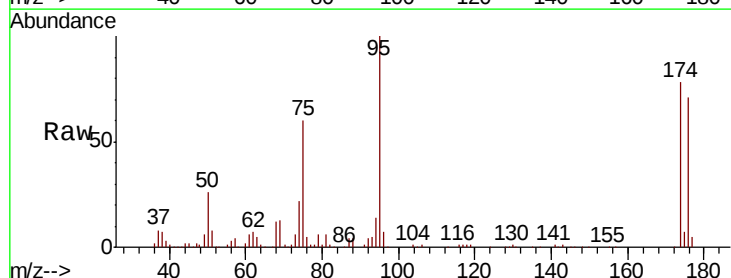
Acq: 19 Nov 2018 18:00

Tgt Ion: 75 Resp: 104542

Ion Ratio Lower Upper

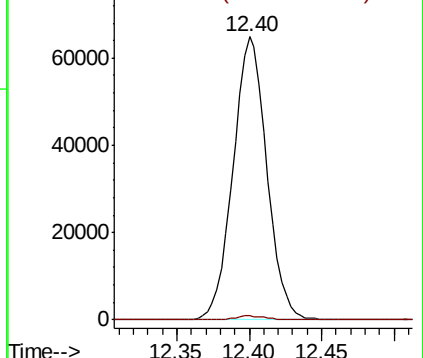
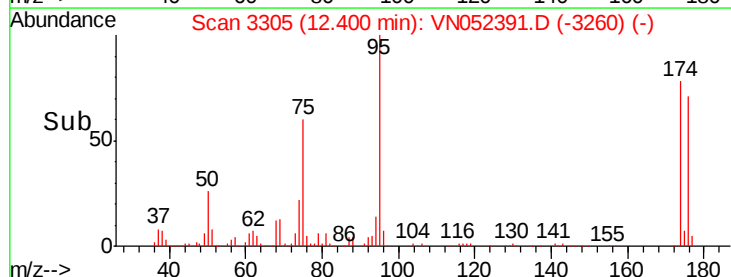
75 100

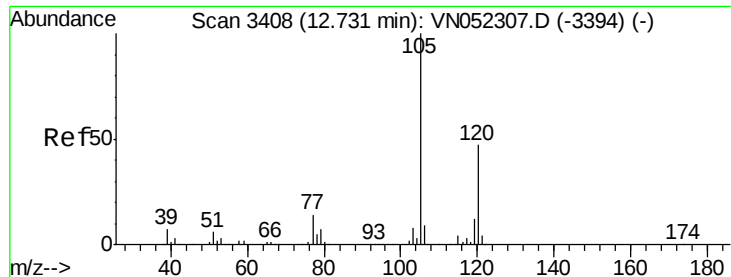
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#80

1,3,5-Trimethylbenzene

Concen: 0.821 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

Instrument :

MSVOA_N

ClientSampleId :

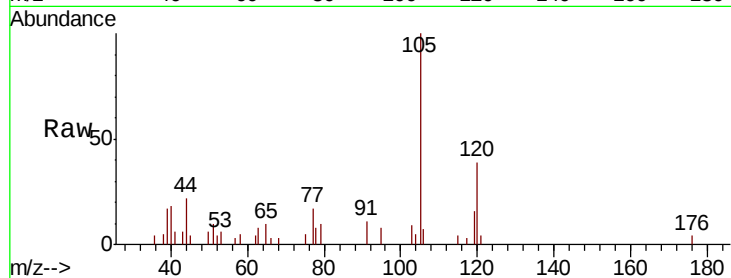
PB114846ZHE#07

Tot Ion:105 Resp: 7514

Ion Ratio Lower Upper

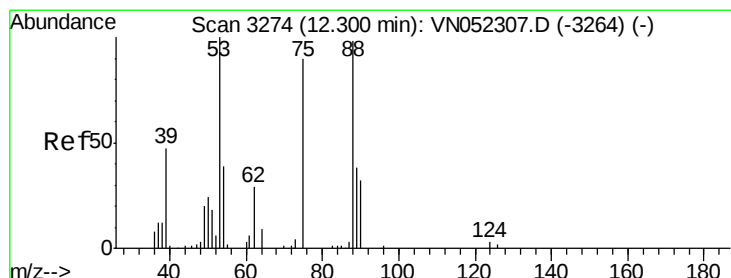
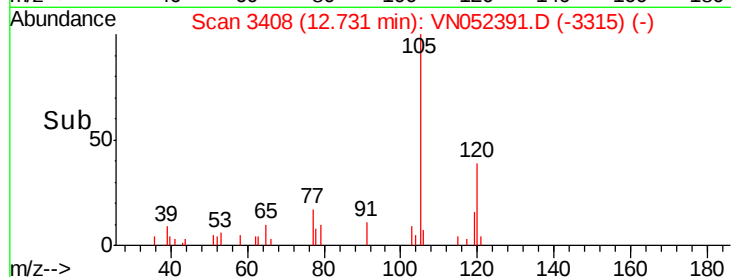
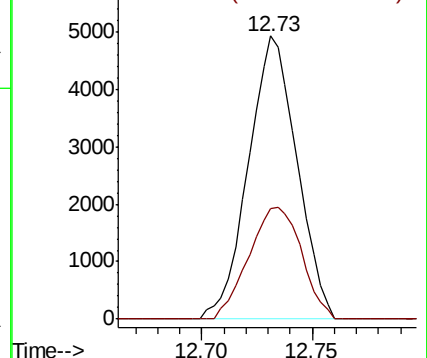
105 100

120 42.7 23.7 71.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 139.514 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052391.D

Acq: 19 Nov 2018 18:00

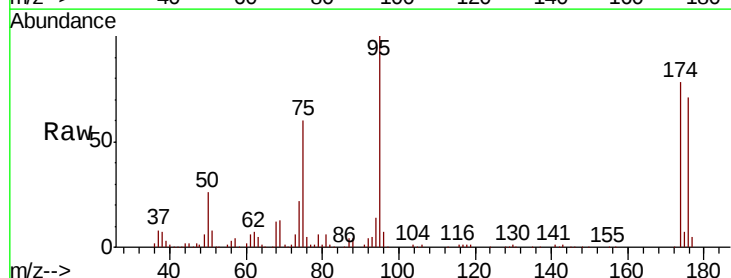
Tgt Ion: 75 Resp: 104542

Ion Ratio Lower Upper

75 100

53 0.0 90.2 135.2#

89 0.0 35.4 53.0#



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

