

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111918\
 Data File : VN052393.D
 Acq On : 19 Nov 2018 18:53
 Operator : MD\SY
 Sample : PB114846ZHE#09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#09

Quant Time: Nov 20 07:14:08 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	290583	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	487336	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	422953	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	148617	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	209713	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
35) Dibromofluoromethane	7.59	113	162006	51.54	ug/l	0.00
Spiked Amount			Recovery	=	103.08%	
50) Toluene-d8	10.09	98	623294	50.41	ug/l	0.00
Spiked Amount			Recovery	=	100.82%	
62) 4-Bromofluorobenzene	12.40	95	184173	45.28	ug/l	0.00
Spiked Amount			Recovery	=	90.56%	

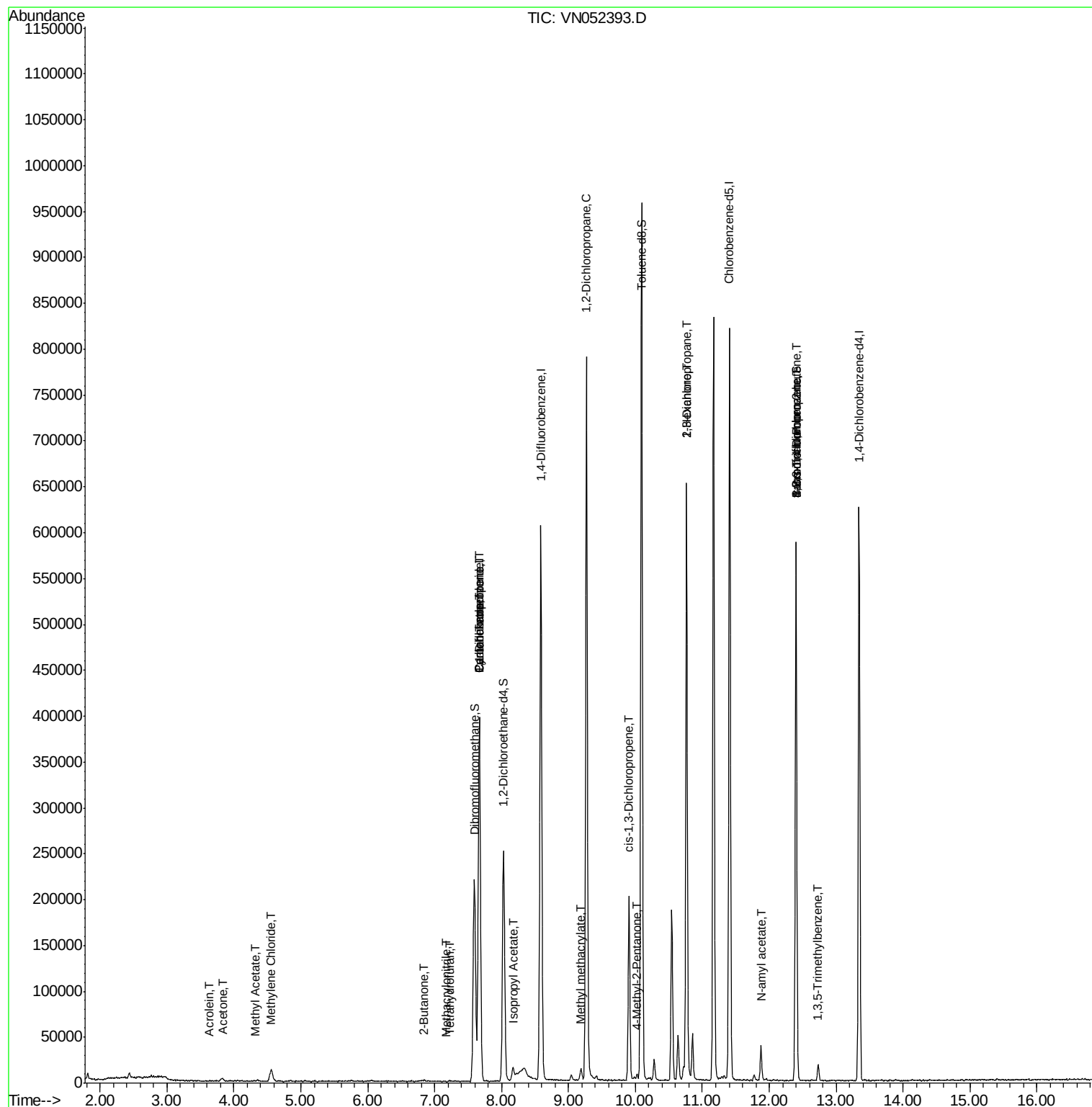
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.64	56	100	22.050	ug/l #	14
16) Acetone	3.83	43	5211	4.611	ug/l #	69
18) Methyl Acetate	4.32	43	375	0.549	ug/l #	57
20) Methylene Chloride	4.56	84	7735	1.572	ug/l	97
25) 2-Butanone	6.85	43	504	0.317	ug/l #	52
29) Tetrahydrofuran	7.23	42	559	0.535	ug/l #	40
31) Cyclohexane	7.67	56	8889	0.372	ug/l #	29
36) 1,1-Dichloropropene	7.67	75	27921	5.716	ug/l #	50
38) Carbon Tetrachloride	7.67	117	32157	7.166	ug/l #	15
41) Methacrylonitrile	7.17	41	33	3.711	ug/l #	100
43) Isopropyl Acetate	8.17	43	17810	2.604	ug/l	96
45) 1,2-Dichloropropane	9.26	63	1180	0.298	ug/l #	44
48) Methyl methacrylate	9.18	41	5599	1.613	ug/l #	16
51) 4-Methyl-2-Pentanone	10.02	43	5397	1.567	ug/l #	41
54) cis-1,3-Dichloropropene	9.90	75	30710	5.678	ug/l #	76
57) 1,3-Dichloropropane	10.76	76	5858	1.093	ug/l #	43
59) 2-Hexanone	10.76	43	108948	46.000	ug/l #	54
71) Bromoform	12.39	173	461	0.256	ug/l #	27
74) N-amyl acetate	11.88	43	12161	2.857	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	108444	43.003	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7527	0.792	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	108444	139.477	ug/l #	5

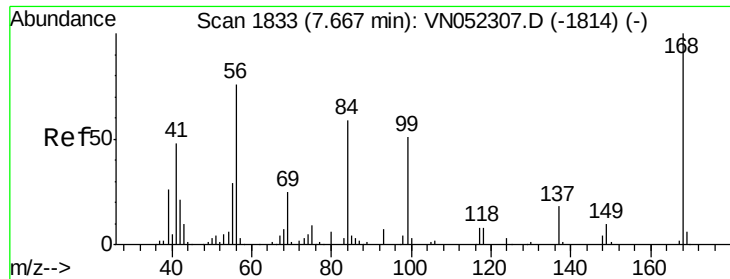
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N111418W.M
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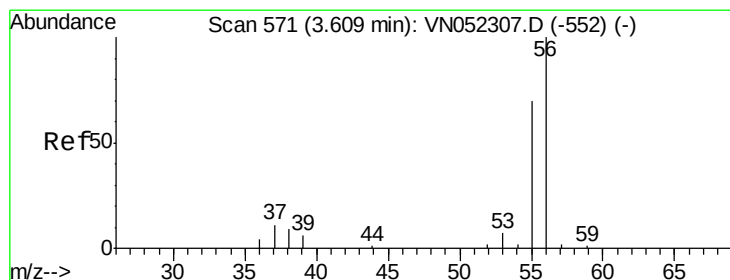
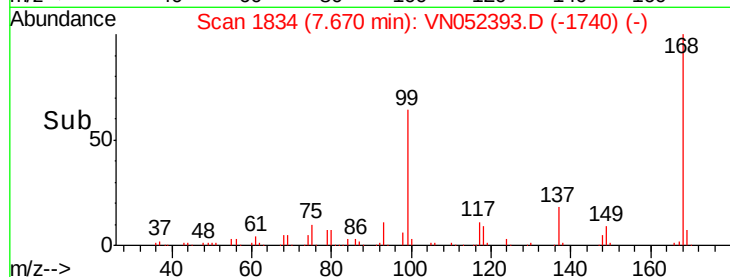
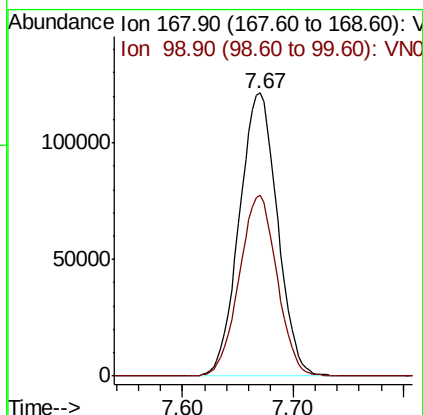
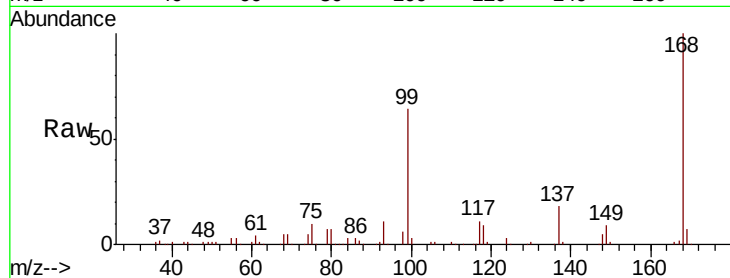




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.67 min Scan# 1834
Delta R.T. 0.00 min
Lab File: VN052393.D
Acq: 19 Nov 2018 18:53

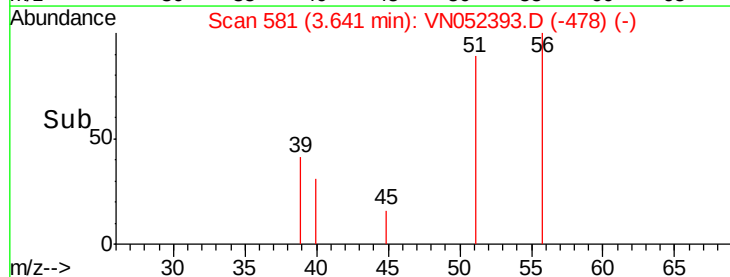
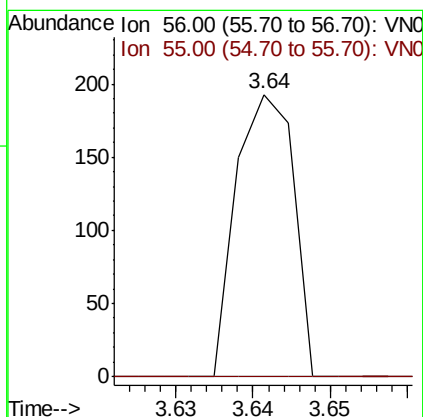
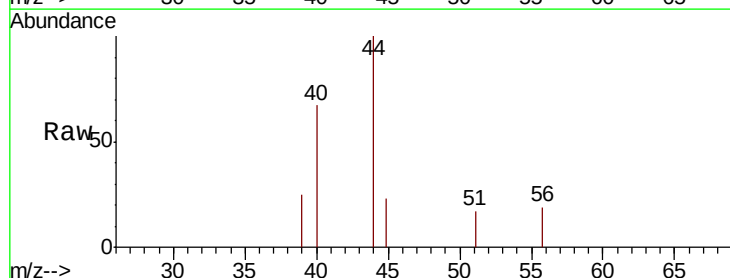
Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#09

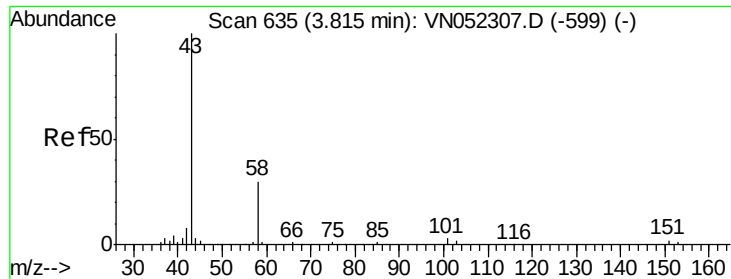
Tot Ion:168 Resp: 290583
Ion Ratio Lower Upper
168 100
99 63.8 47.9 71.9



#13
Acrolein
Concen: 22.050 ug/l
RT: 3.64 min Scan# 581
Delta R.T. 0.03 min
Lab File: VN052393.D
Acq: 19 Nov 2018 18:53

Tgt Ion: 56 Resp: 100
Ion Ratio Lower Upper
56 100
55 0.0 57.6 86.4#





#16

Acetone

Concen: 4.611 ug/l

RT: 3.83 min Scan# 640

Delta R.T. 0.02 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

Instrument :

MSVOA_N

ClientSampleId :

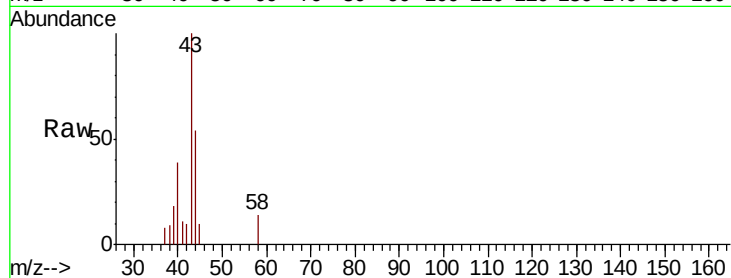
PB114846ZHE#09

Tot Ion: 43 Resp: 5211

Ion Ratio Lower Upper

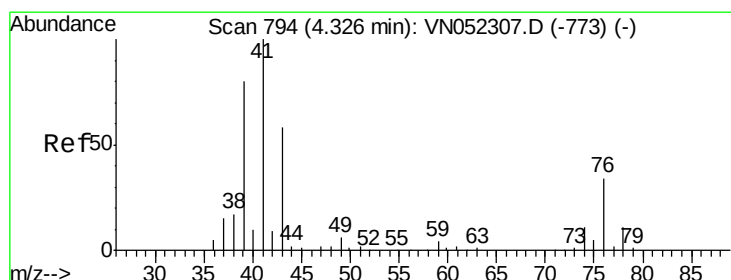
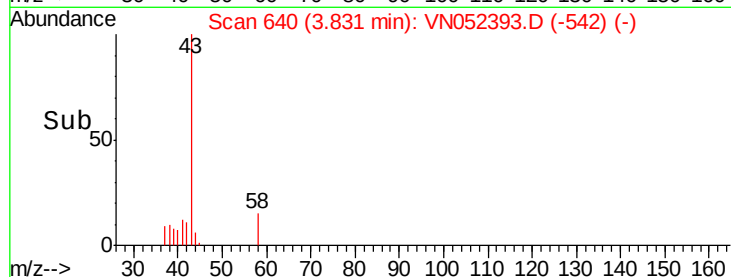
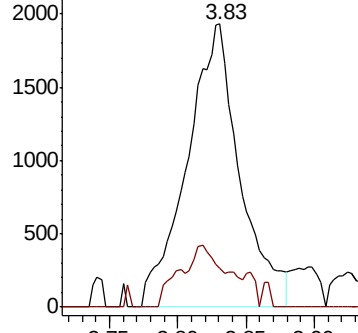
43 100

58 13.6 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: 0.549 ug/l

RT: 4.32 min Scan# 793

Delta R.T. -0.00 min

Lab File: VN052393.D

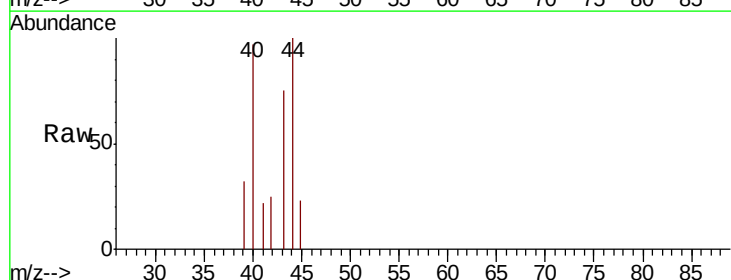
Acq: 19 Nov 2018 18:53

Tgt Ion: 43 Resp: 375

Ion Ratio Lower Upper

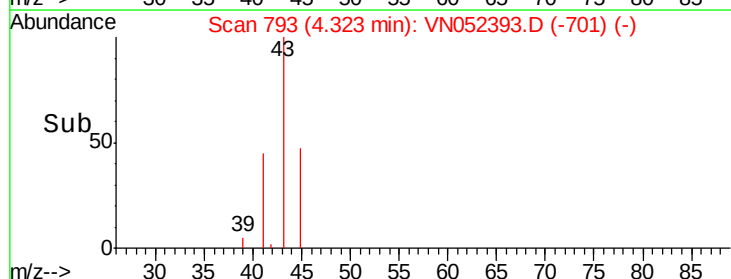
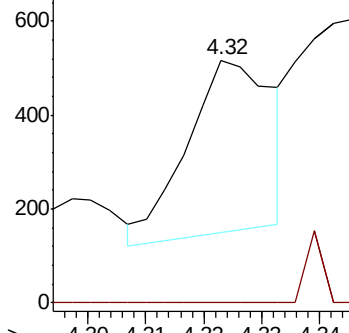
43 100

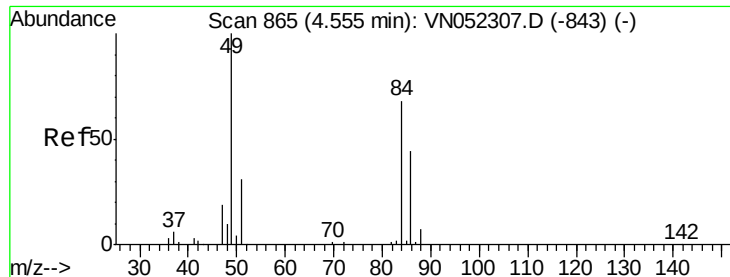
74 0.0 15.9 23.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

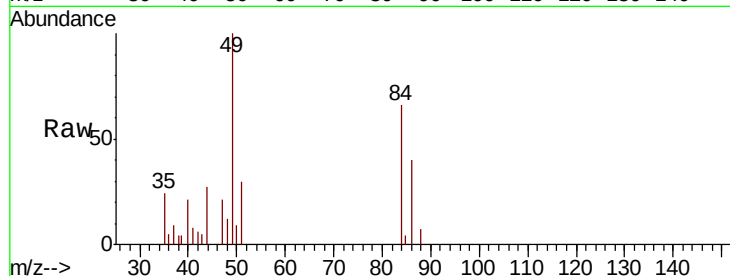




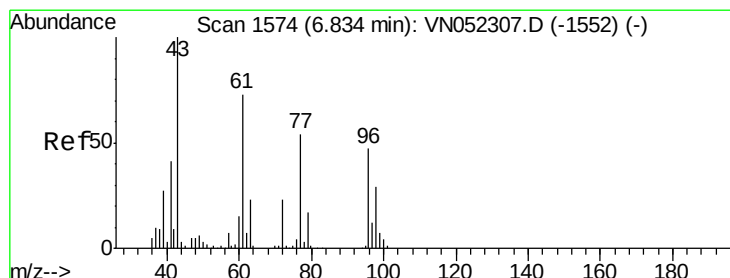
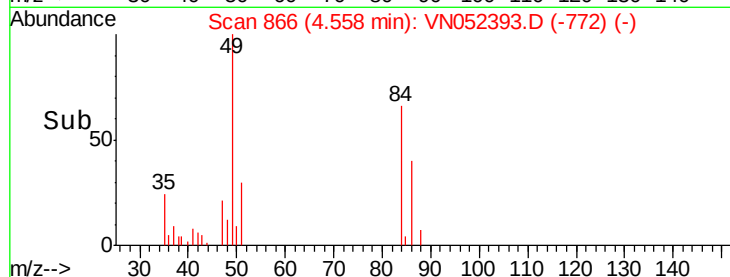
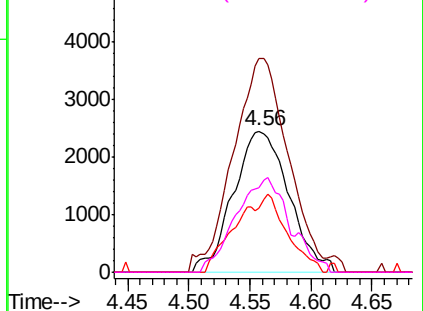
#20
Methvlene Chloride
Concen: 1.572 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052393.D
Acq: 19 Nov 2018 18:53

Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#09

Tot Ion: 84 Resp: 7735
Ion Ratio Lower Upper
84 100
49 151.3 118.2 177.2
51 45.4 36.1 54.1
86 60.2 51.6 77.4

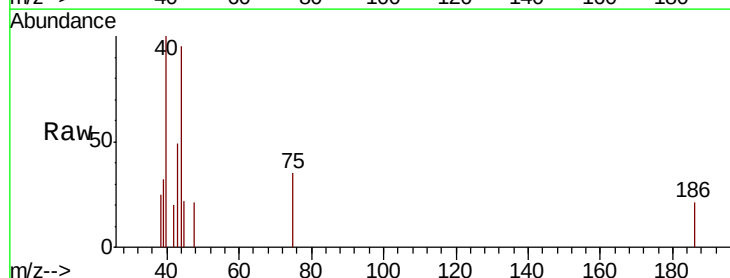


Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC

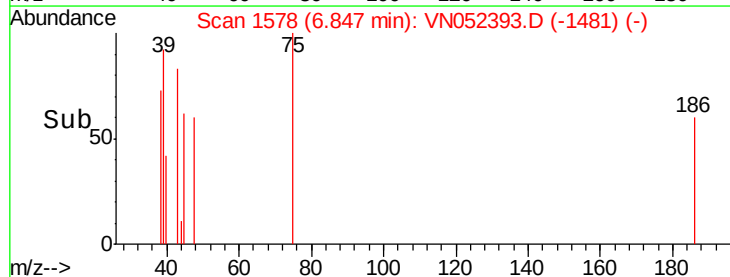
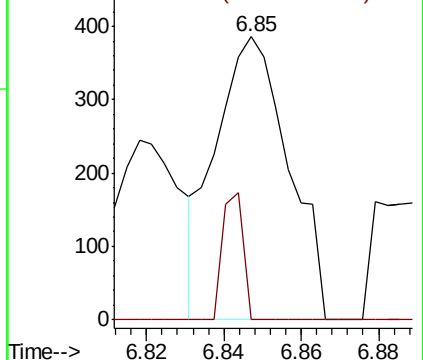


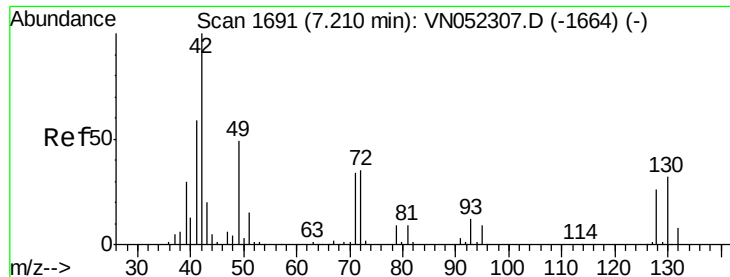
#25
2-Butanone
Concen: 0.317 ug/l
RT: 6.85 min Scan# 1578
Delta R.T. 0.01 min
Lab File: VN052393.D
Acq: 19 Nov 2018 18:53

Tgt Ion: 43 Resp: 504
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: 0.535 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.02 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#09

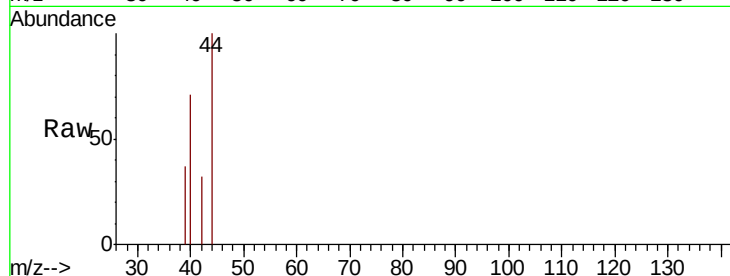
Tot Ion: 42 Resp: 559

Ion Ratio Lower Upper

42 100

72 0.0 28.6 42.8#

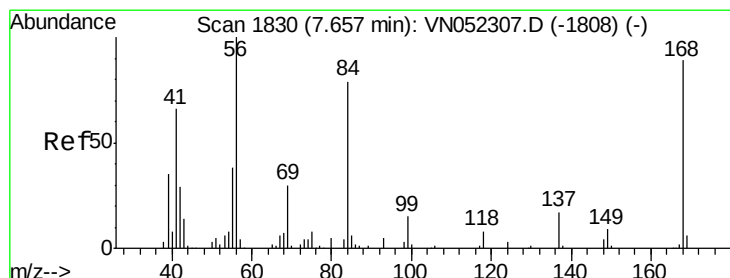
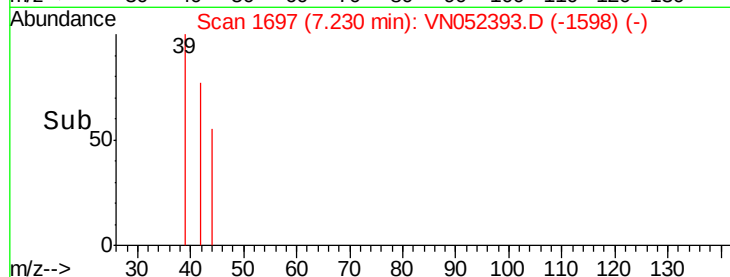
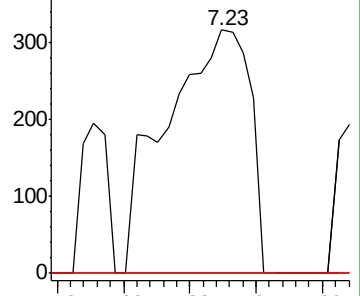
71 0.0 26.7 40.1#



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: 0.372 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

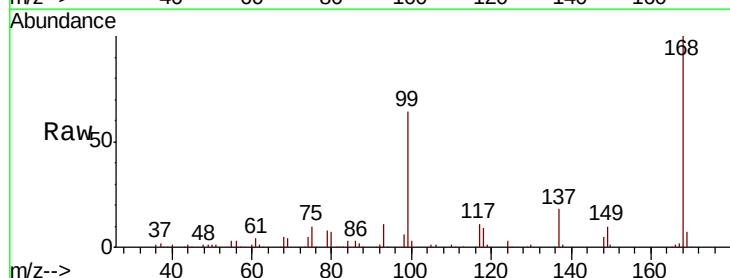
Tgt Ion: 56 Resp: 8889

Ion Ratio Lower Upper

56 100

69 139.3 23.8 35.8#

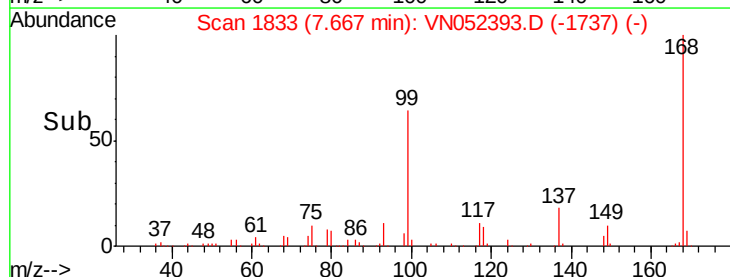
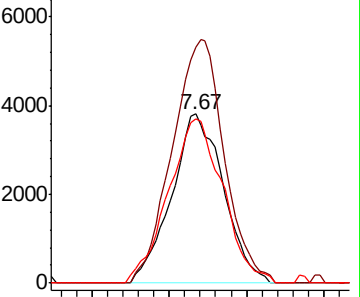
84 97.6 63.0 94.6#

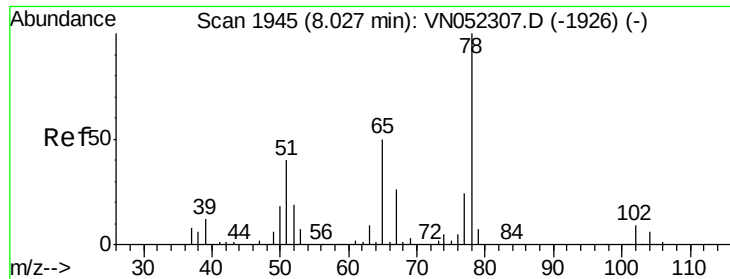


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

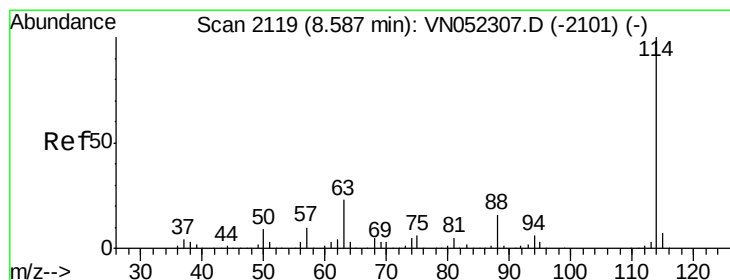
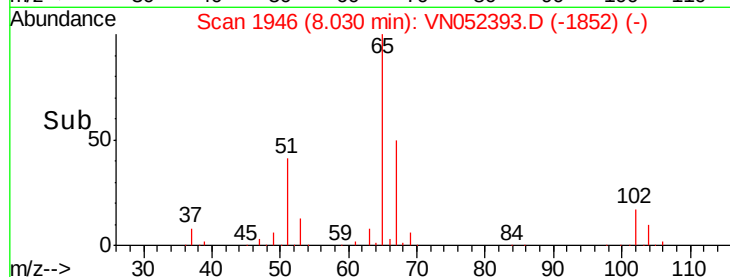
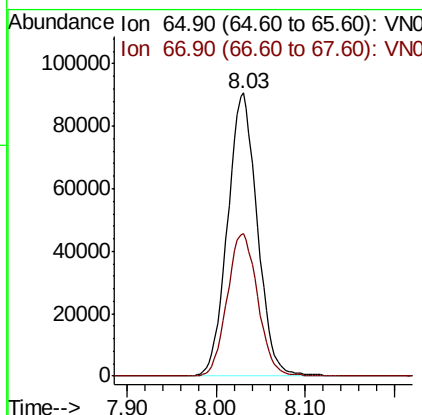
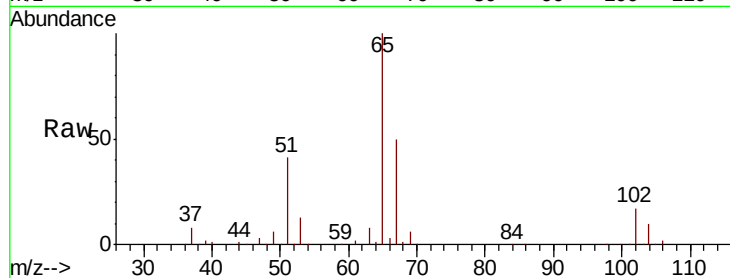




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN052393.D
 Acq: 19 Nov 2018 18:53

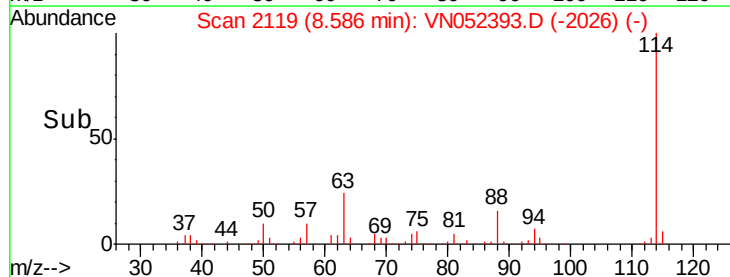
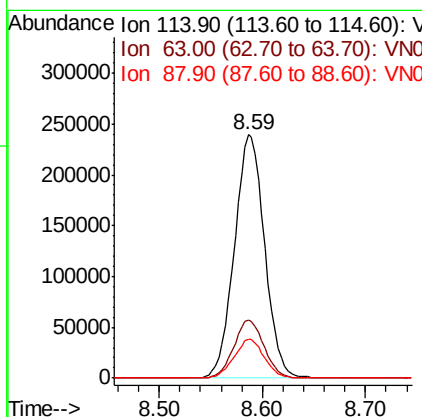
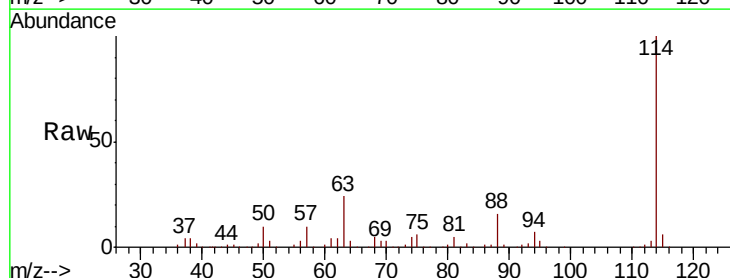
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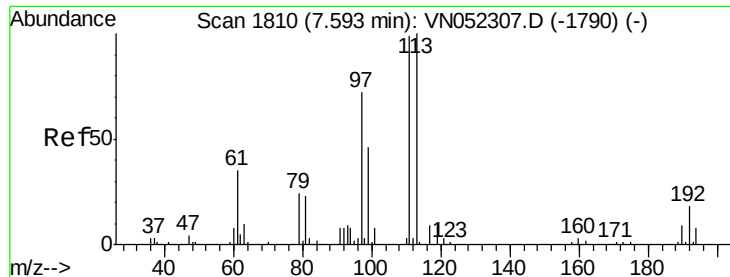
Tot Ion: 65 Resp: 209713
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052393.D
 Acq: 19 Nov 2018 18:53

Tgt Ion: 114 Resp: 487336
 Ion Ratio Lower Upper
 114 100
 63 23.9 0.0 45.4
 88 16.1 0.0 31.2

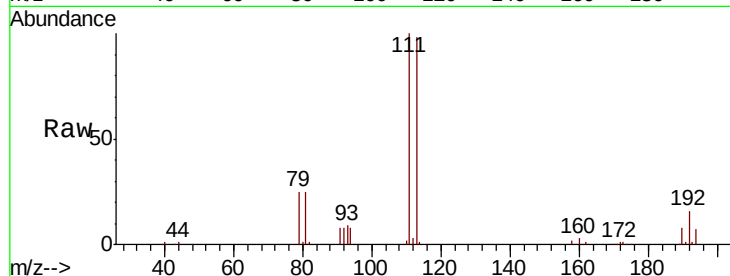




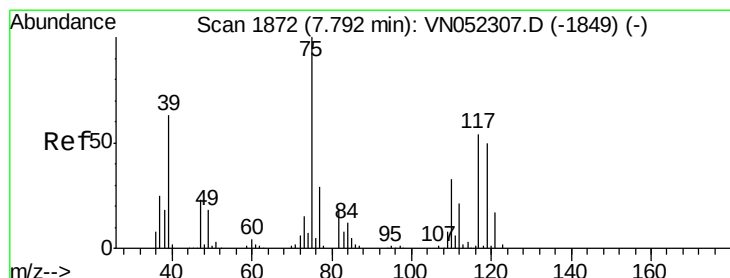
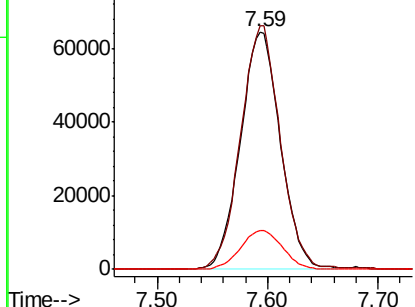
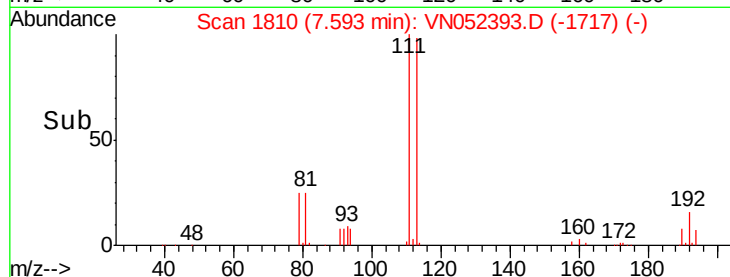
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052393.D
 Acq: 19 Nov 2018 18:53

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#09

Tot Ion:113 Resp: 162006
 Ion Ratio Lower Upper
 113 100
 111 102.2 81.0 121.6
 192 17.2 13.8 20.6

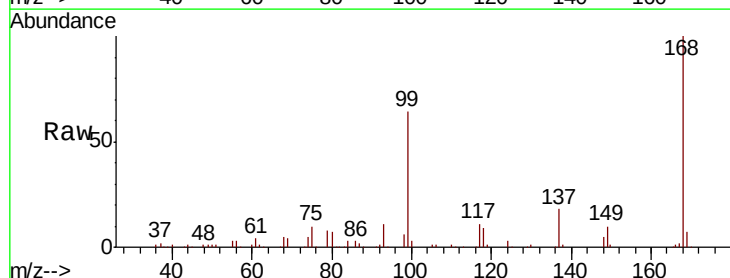


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

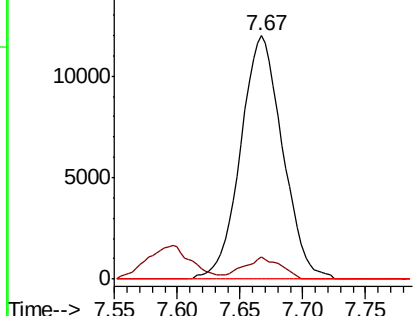
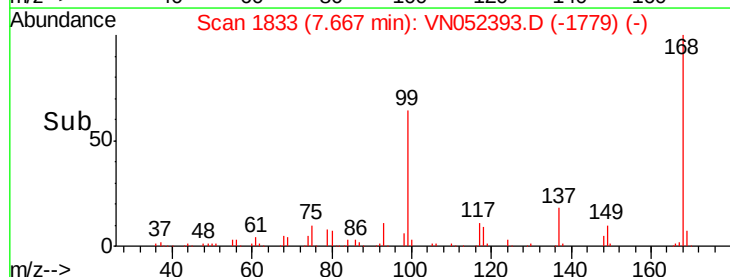


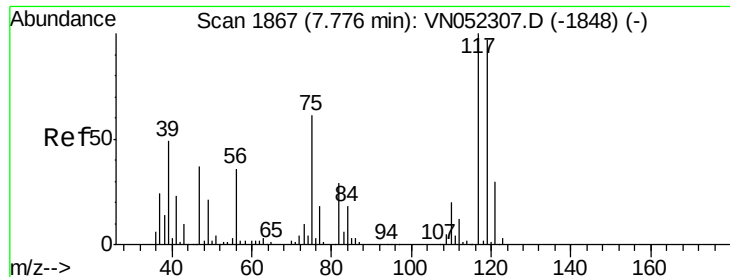
#36
 1,1-Dichloropropene
 Concen: 5.716 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052393.D
 Acq: 19 Nov 2018 18:53

Tgt Ion: 75 Resp: 27921
 Ion Ratio Lower Upper
 75 100
 110 8.0 16.5 49.5#
 77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0





#38

Carbon Tetrachloride

Concen: 7.166 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#09

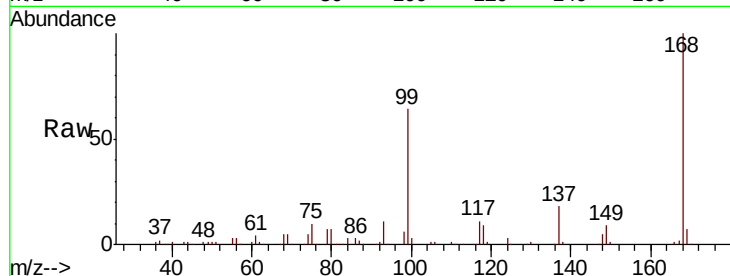
Tot Ion:117 Resp: 32157

Ion Ratio Lower Upper

117 100

119 4.6 77.4 116.0#

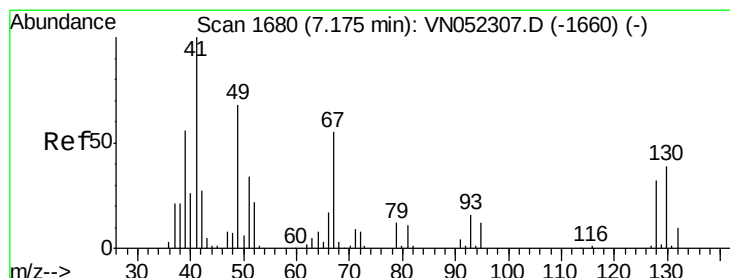
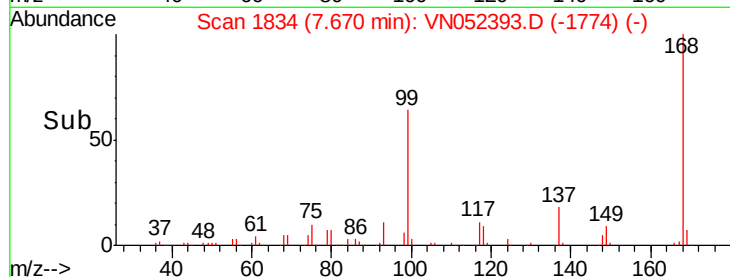
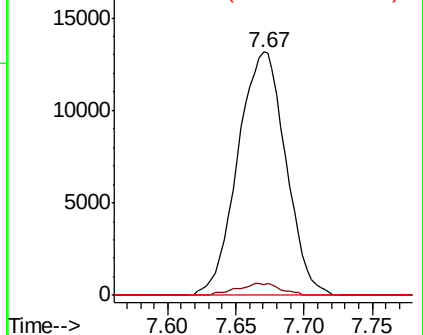
121 0.0 24.0 36.0#



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: 3.711 ug/l

RT: 7.17 min Scan# 1680

Delta R.T. -0.00 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

Tgt Ion: 41 Resp: 33

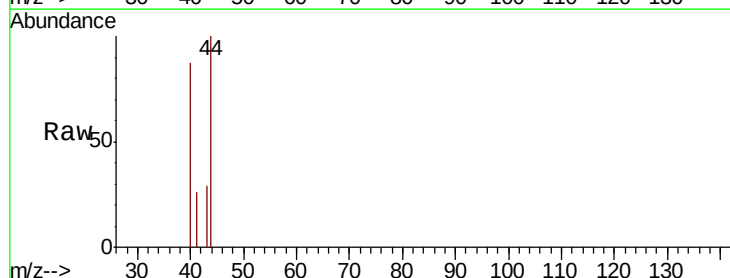
Ion Ratio Lower Upper

41 100

39 187.9 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

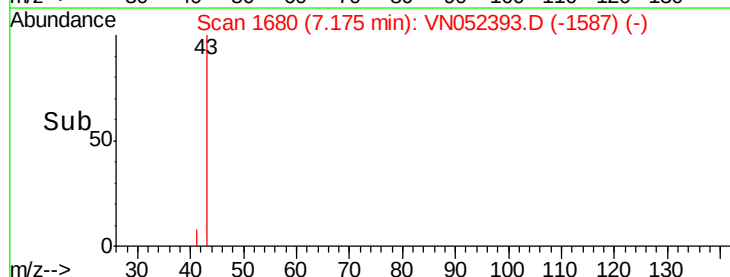
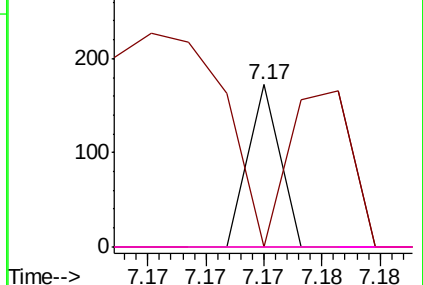


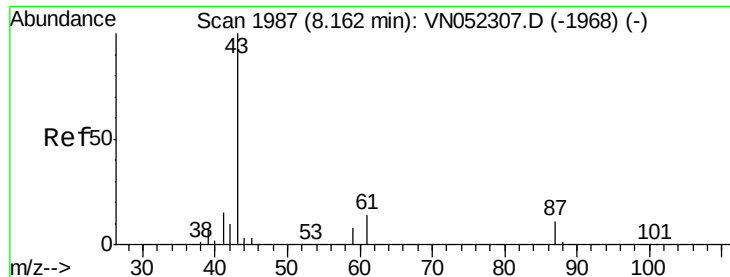
Abundance Ion 41.00 (40.70 to 41.70): V

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: 2.604 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#09

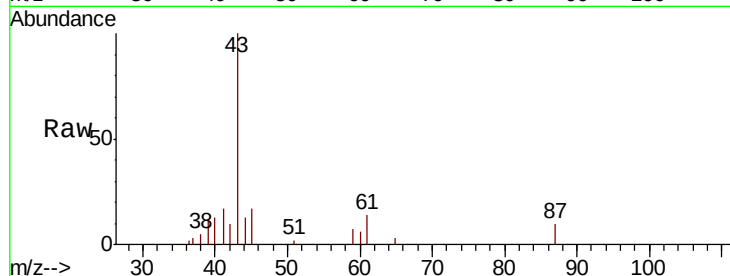
Tot Ion: 43 Resp: 17810

Ion Ratio Lower Upper

43 100

61 13.3 12.0 18.0

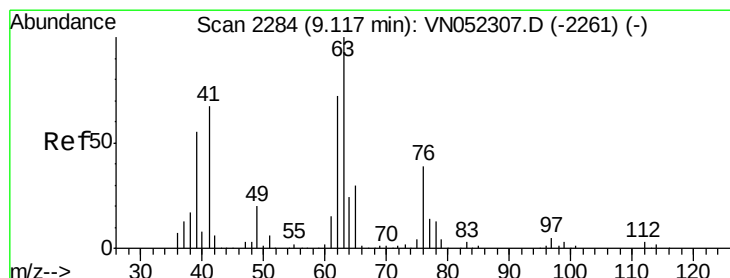
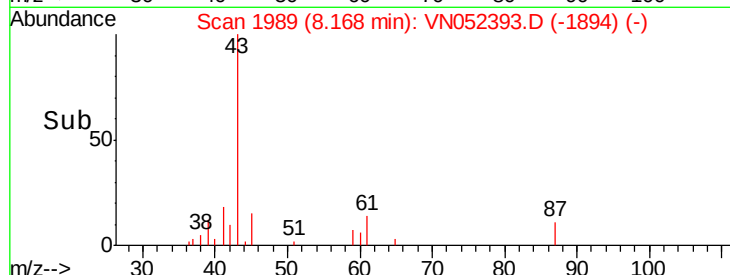
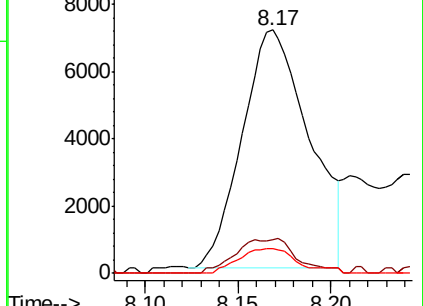
87 8.5 8.3 12.5



Abundance Ion 43.00 (42.70 to 43.70): VN052307.D (-1968) (-)

Ion 61.00 (60.70 to 61.70): VN052307.D (-1968) (-)

Ion 87.00 (86.70 to 87.70): VN052307.D (-1968) (-)



#45

1,2-Dichloropropane

Concen: 0.298 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.14 min

Lab File: VN052393.D

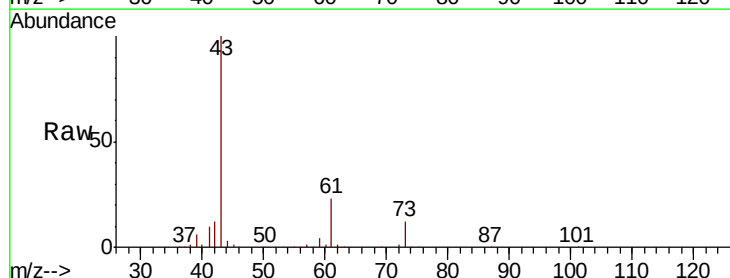
Acq: 19 Nov 2018 18:53

Tgt Ion: 63 Resp: 1180

Ion Ratio Lower Upper

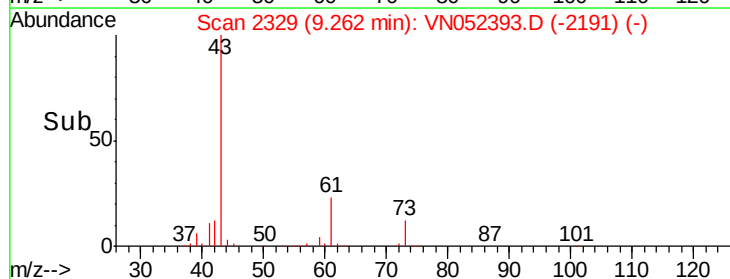
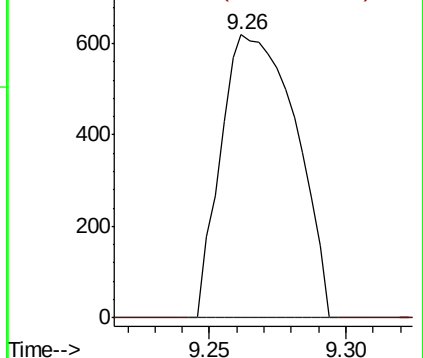
63 100

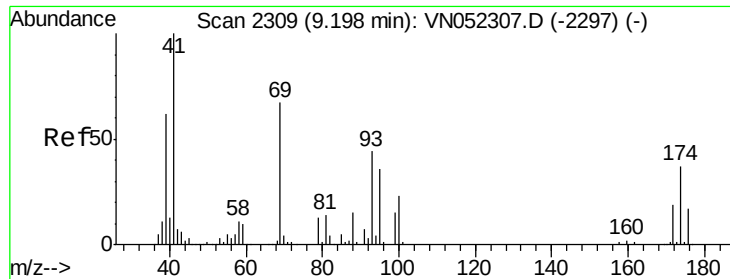
65 0.0 24.2 36.4#



Abundance Ion 62.90 (62.60 to 63.60): VN052307.D (-2261) (-)

Ion 64.90 (64.60 to 65.60): VN052307.D (-2261) (-)

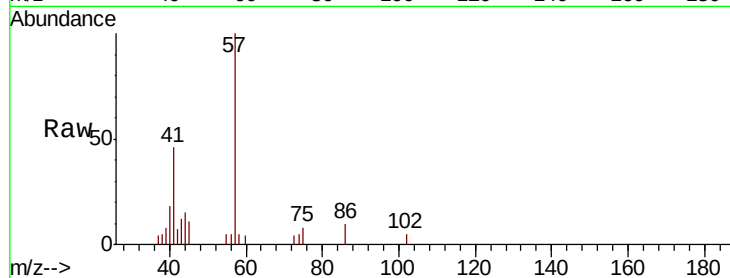




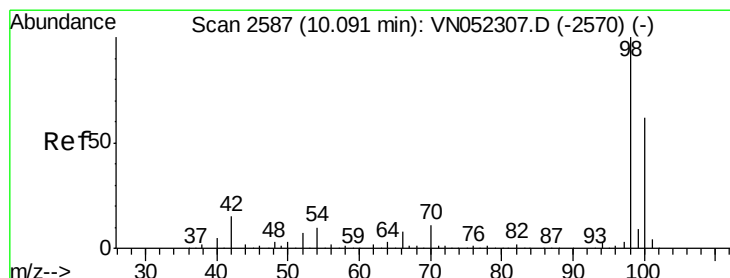
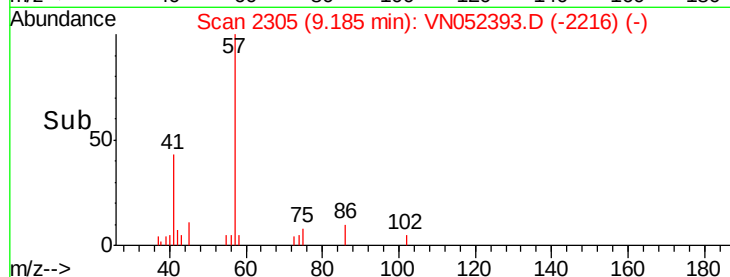
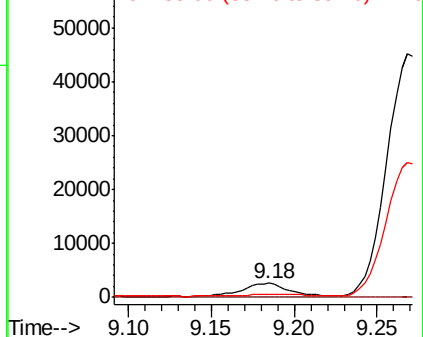
#48
Methvl methacrylate
Concen: 1.613 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.01 min
Lab File: VN052393.D
Acq: 19 Nov 2018 18:53

Instrument :
MSVOA_N
ClientSampleId :
PB114846ZHE#09

Tot Ion: 41 Resp: 5599
Ion Ratio Lower Upper
41 100
69 0.0 57.1 85.7#
39 0.0 52.5 78.7#

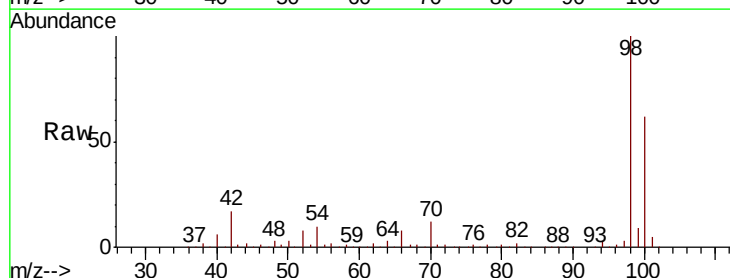


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

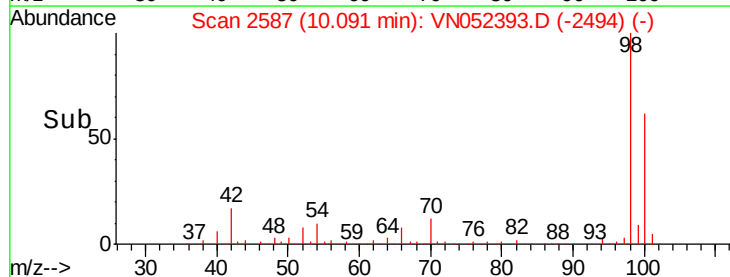
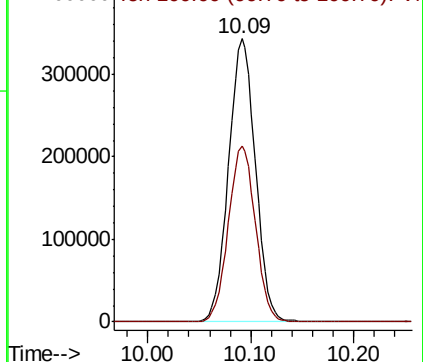


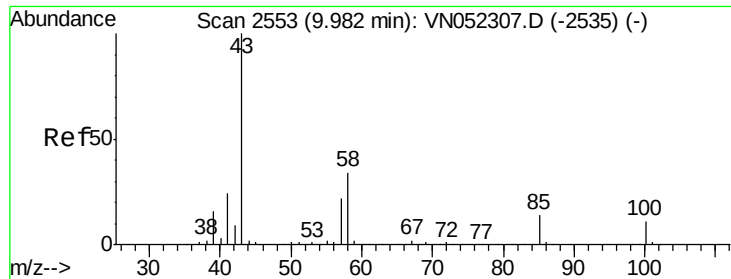
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN052393.D
Acq: 19 Nov 2018 18:53

Tgt Ion: 98 Resp: 623294
Ion Ratio Lower Upper
98 100
100 62.7 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: 1.567 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

Instrument :

MSVOA_N

ClientSampleId :

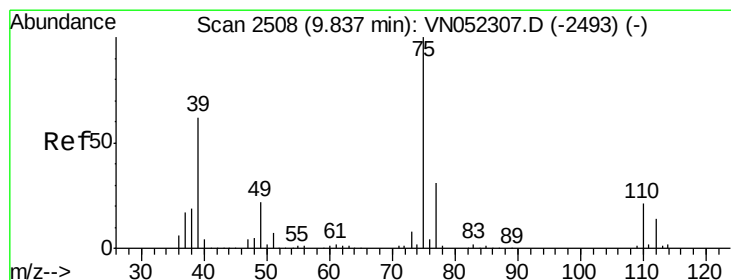
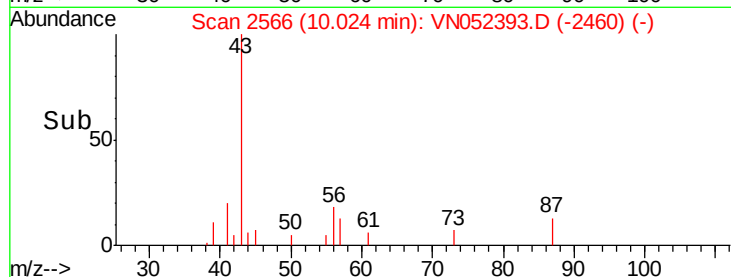
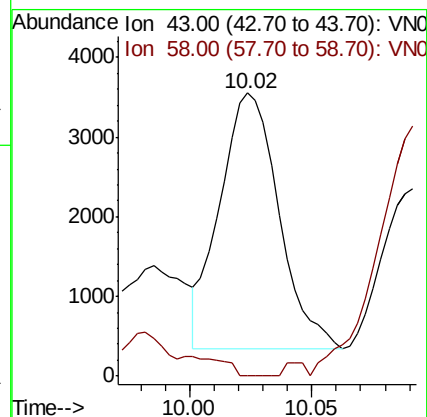
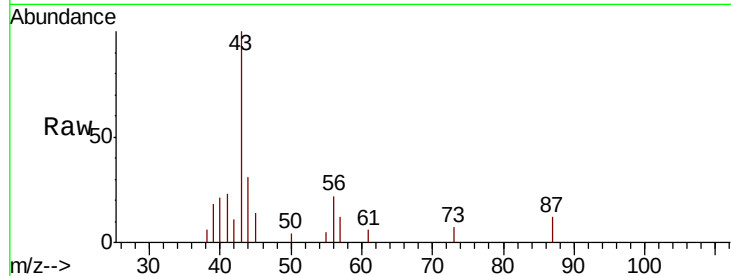
PB114846ZHE#09

Tot Ion: 43 Resp: 5397

Ion Ratio Lower Upper

43 100

58 0.0 27.0 40.6#



#54

cis-1,3-Dichloropropene

Concen: 5.678 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

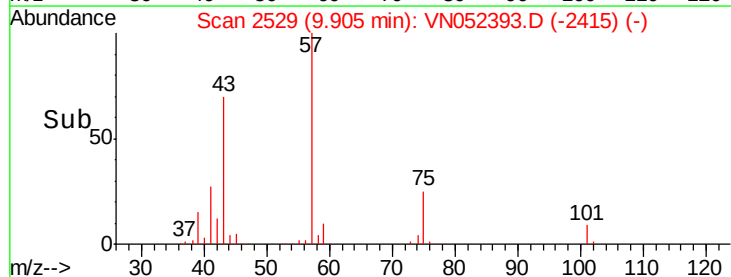
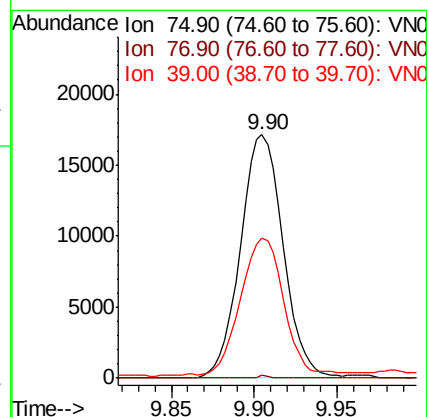
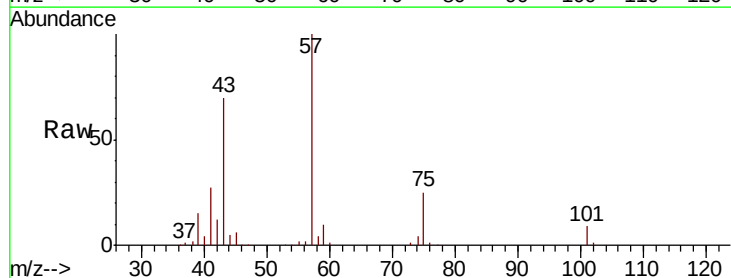
Tgt Ion: 75 Resp: 30710

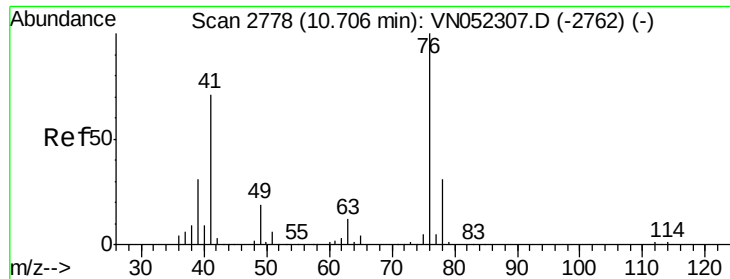
Ion Ratio Lower Upper

75 100

77 1.0 24.6 36.8#

39 55.8 49.9 74.9

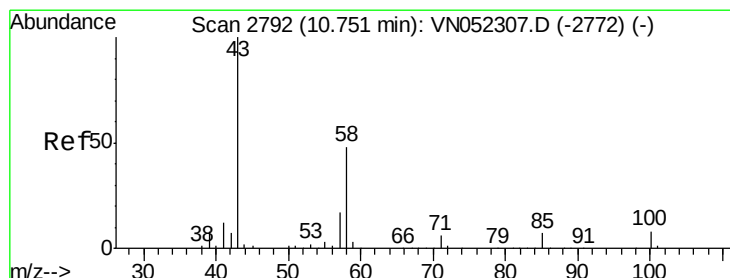
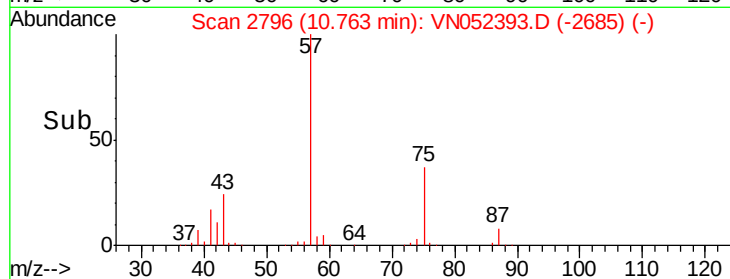
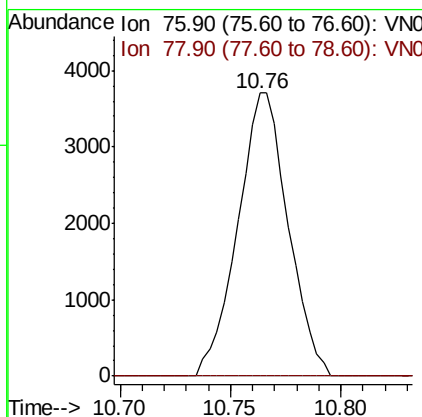
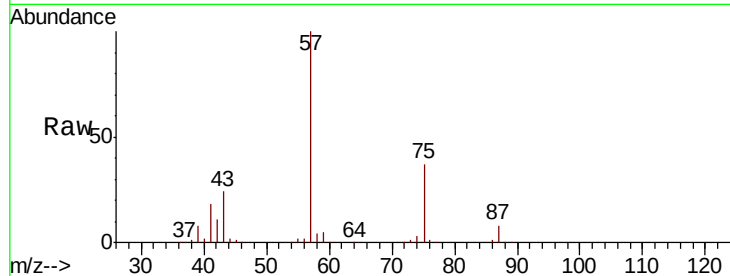




#57
 1,3-Dichloropropane
 Concen: 1.093 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN052393.D
 Acq: 19 Nov 2018 18:53

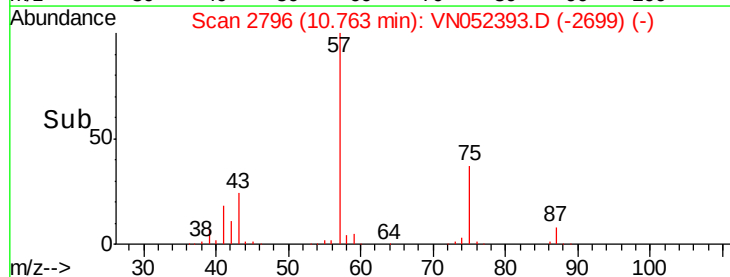
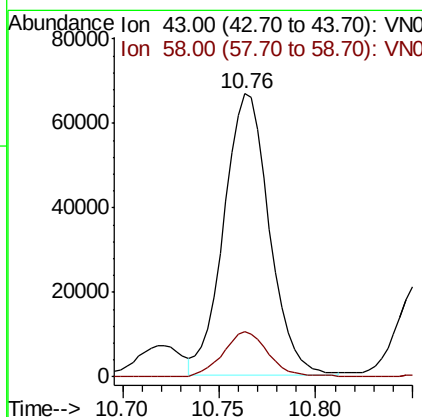
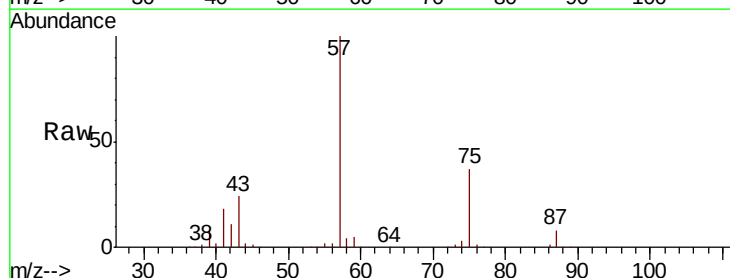
Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#09

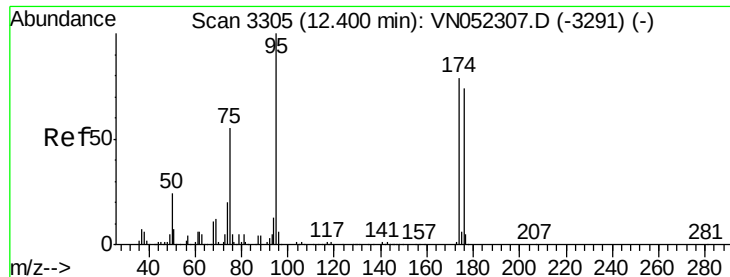
Tot Ion: 76 Resp: 5858
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 46.000 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052393.D
 Acq: 19 Nov 2018 18:53

Tgt Ion: 43 Resp: 108948
 Ion Ratio Lower Upper
 43 100
 58 16.3 23.5 70.6#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#09

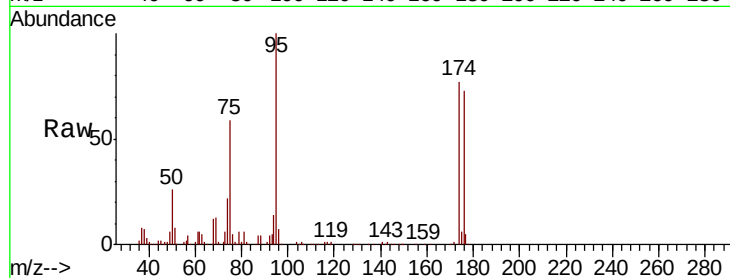
Tot Ion: 95 Resp: 184173

Ion Ratio Lower Upper

95 100

174 75.5 0.0 156.0

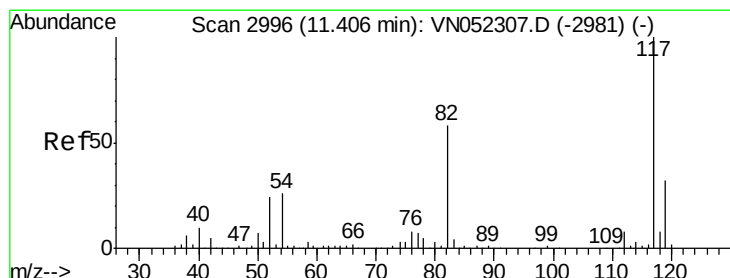
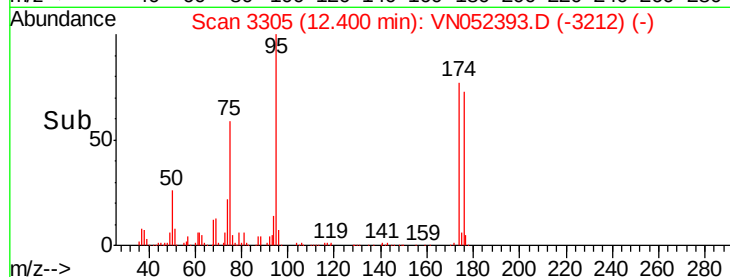
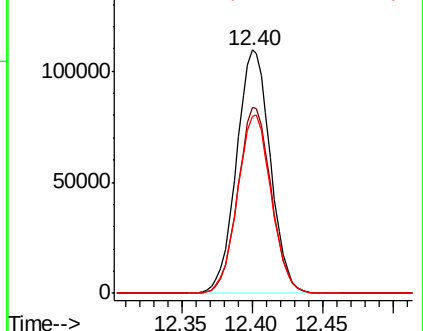
176 73.1 0.0 148.4



Abundance Ion 94.90 (94.60 to 95.60): VN052393.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN052393.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN052393.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

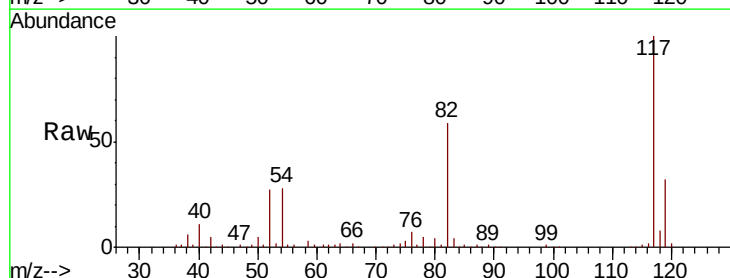
Tgt Ion: 117 Resp: 422953

Ion Ratio Lower Upper

117 100

82 59.4 46.5 69.7

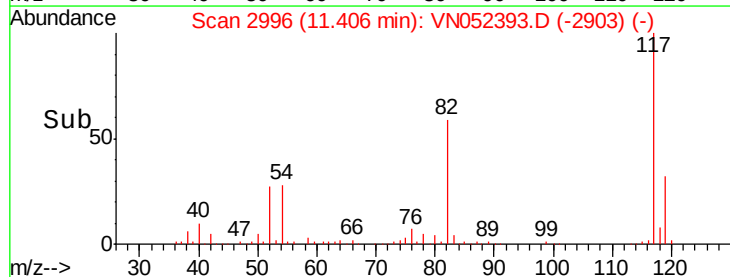
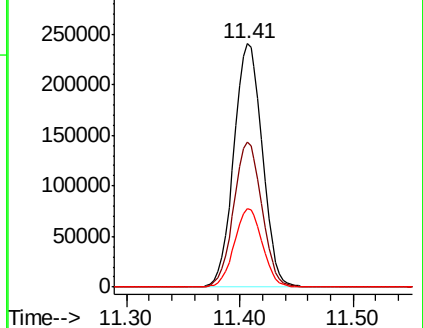
119 32.0 25.7 38.5

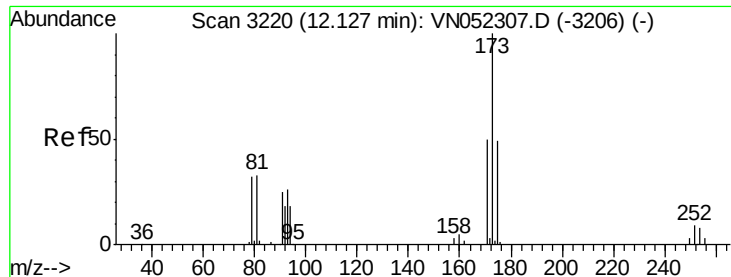


Abundance Ion 116.90 (116.60 to 117.60): VN052393.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN052393.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN052393.D (-2903) (-)





#71

Bromoform

Concen: 0.256 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#09

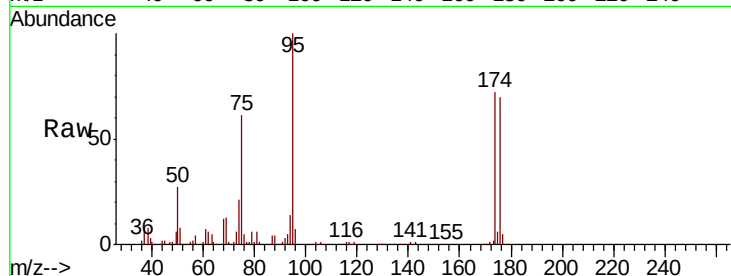
Tot Ion:173 Resp: 461

Ion Ratio Lower Upper

173 100

175 0.0 25.0 75.0#

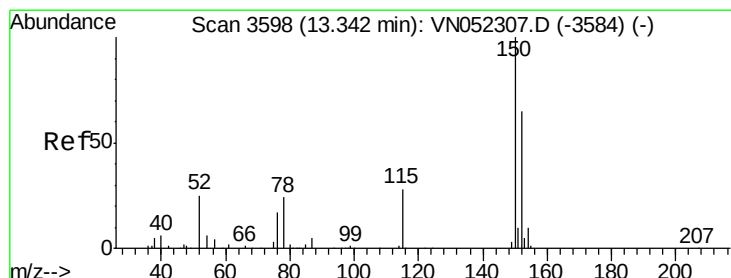
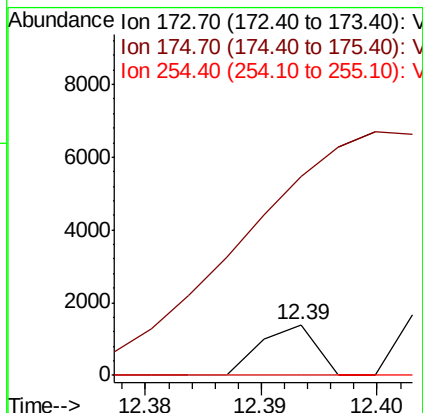
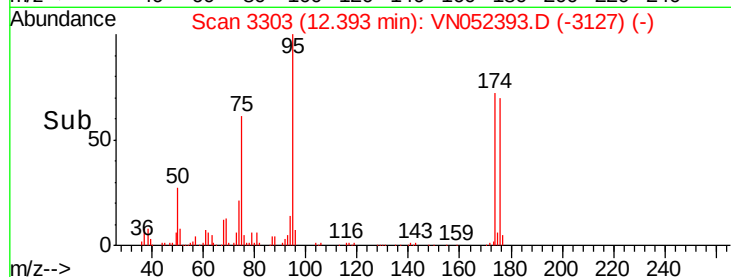
254 0.0 0.0 0.0



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

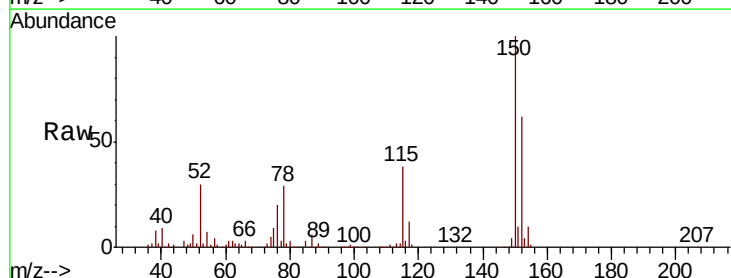
Tgt Ion:152 Resp: 148617

Ion Ratio Lower Upper

152 100

115 60.7 30.3 91.0

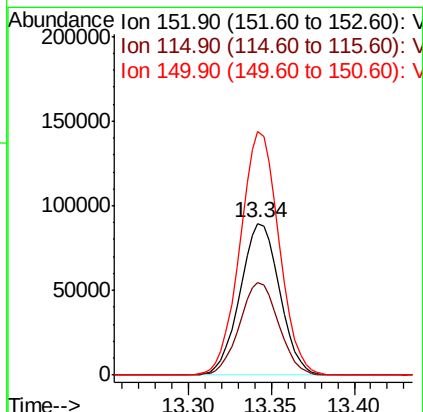
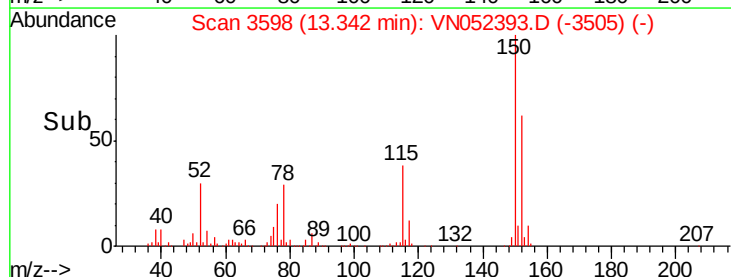
150 157.9 0.0 348.2

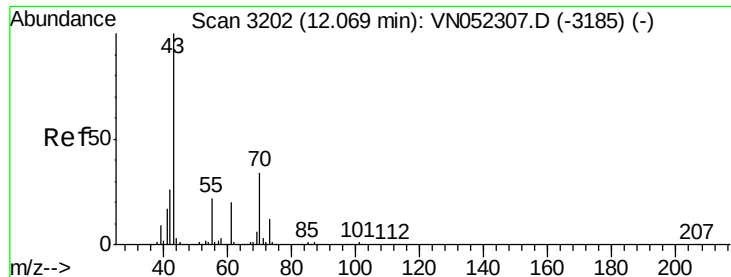


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 2.857 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052393.D

Acq: 19 Nov 2018 18:53

Instrument :

MSVOA_N

ClientSampleId :

PB114846ZHE#09

Tot Ion: 43 Resp: 12161

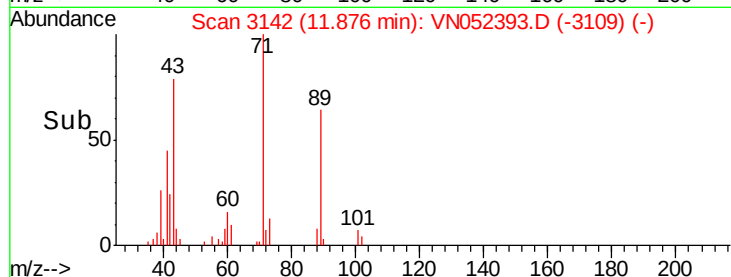
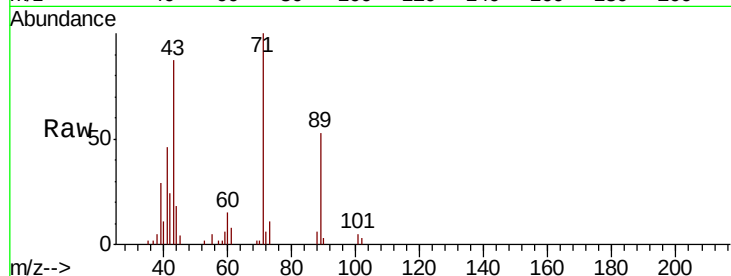
Ion Ratio Lower Upper

43 100

70 1.1 27.1 40.7#

55 6.4 17.4 26.0#

61 10.2 16.1 24.1#

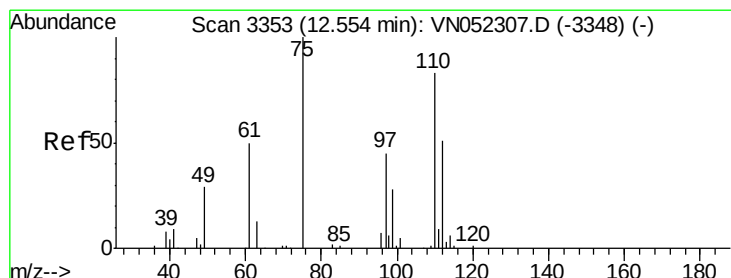
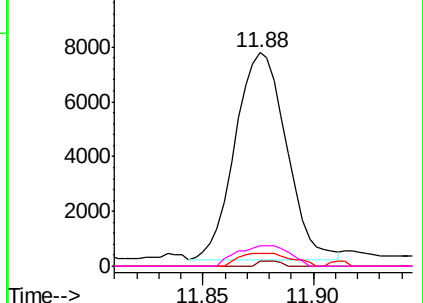


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 43.003 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052393.D

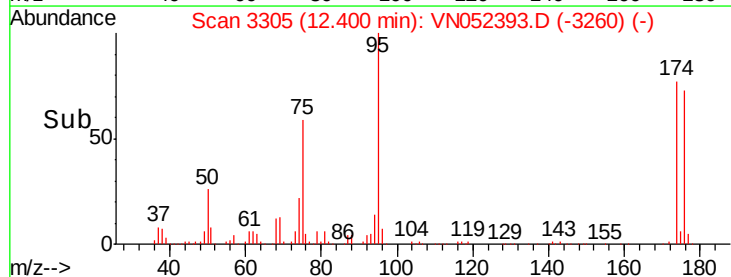
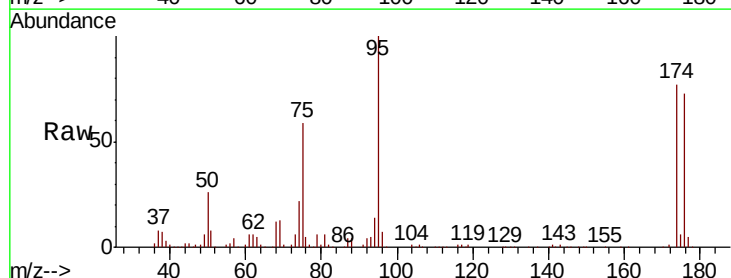
Acq: 19 Nov 2018 18:53

Tgt Ion: 75 Resp: 108444

Ion Ratio Lower Upper

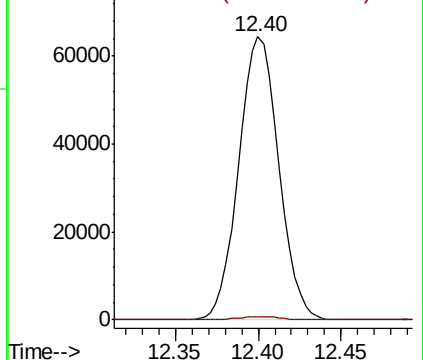
75 100

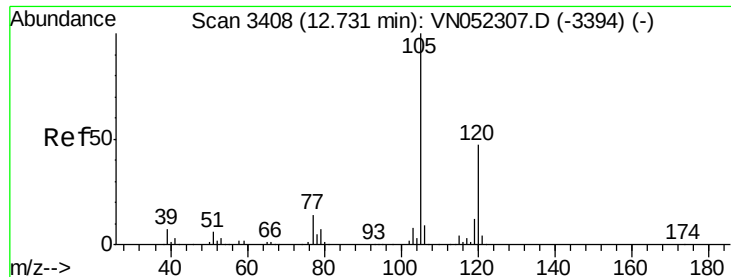
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

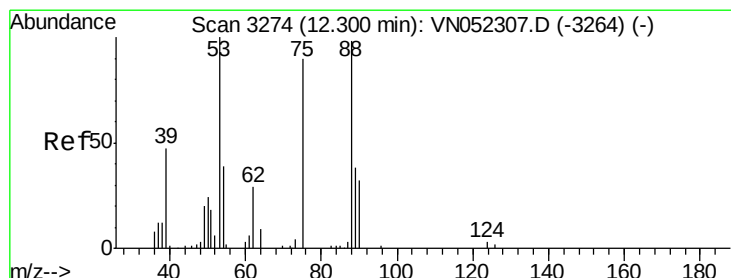
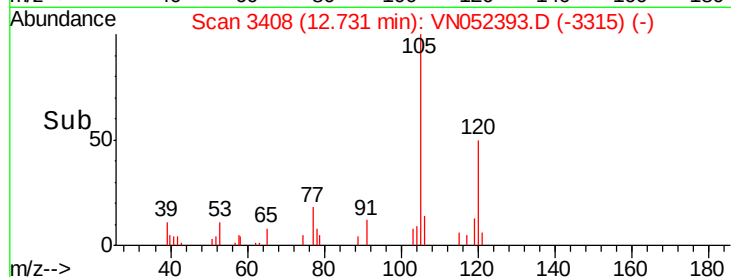
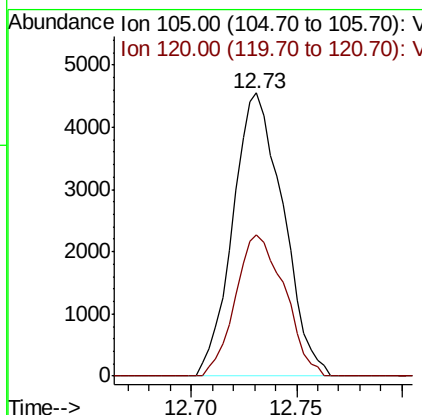
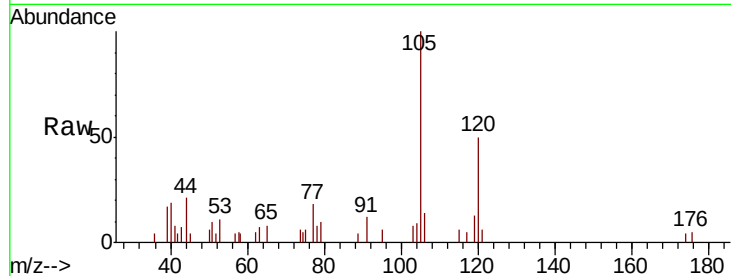




#80
 1,3,5-Trimethylbenzene
 Concen: 0.792 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. -0.00 min
 Lab File: VN052393.D
 Acq: 19 Nov 2018 18:53

Instrument :
 MSVOA_N
 ClientSampleId :
 PB114846ZHE#09

Tot Ion:105 Resp: 7527
 Ion Ratio Lower Upper
 105 100
 120 48.9 23.7 71.1



#81
 trans-1,4-Dichloro-2-butene
 Concen: 139.477 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. 0.10 min
 Lab File: VN052393.D
 Acq: 19 Nov 2018 18:53

Tgt Ion: 75 Resp: 108444
 Ion Ratio Lower Upper
 75 100
 53 0.1 90.2 135.2#
 89 0.0 35.4 53.0#

