

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102418\
 Data File : VN051995.D
 Acq On : 24 Oct 2018 18:27
 Operator : MD\SY
 Sample : PB114120ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 25 01:48:47 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N102318W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 24 10:12:55 2018
 Response via : Initial Calibration

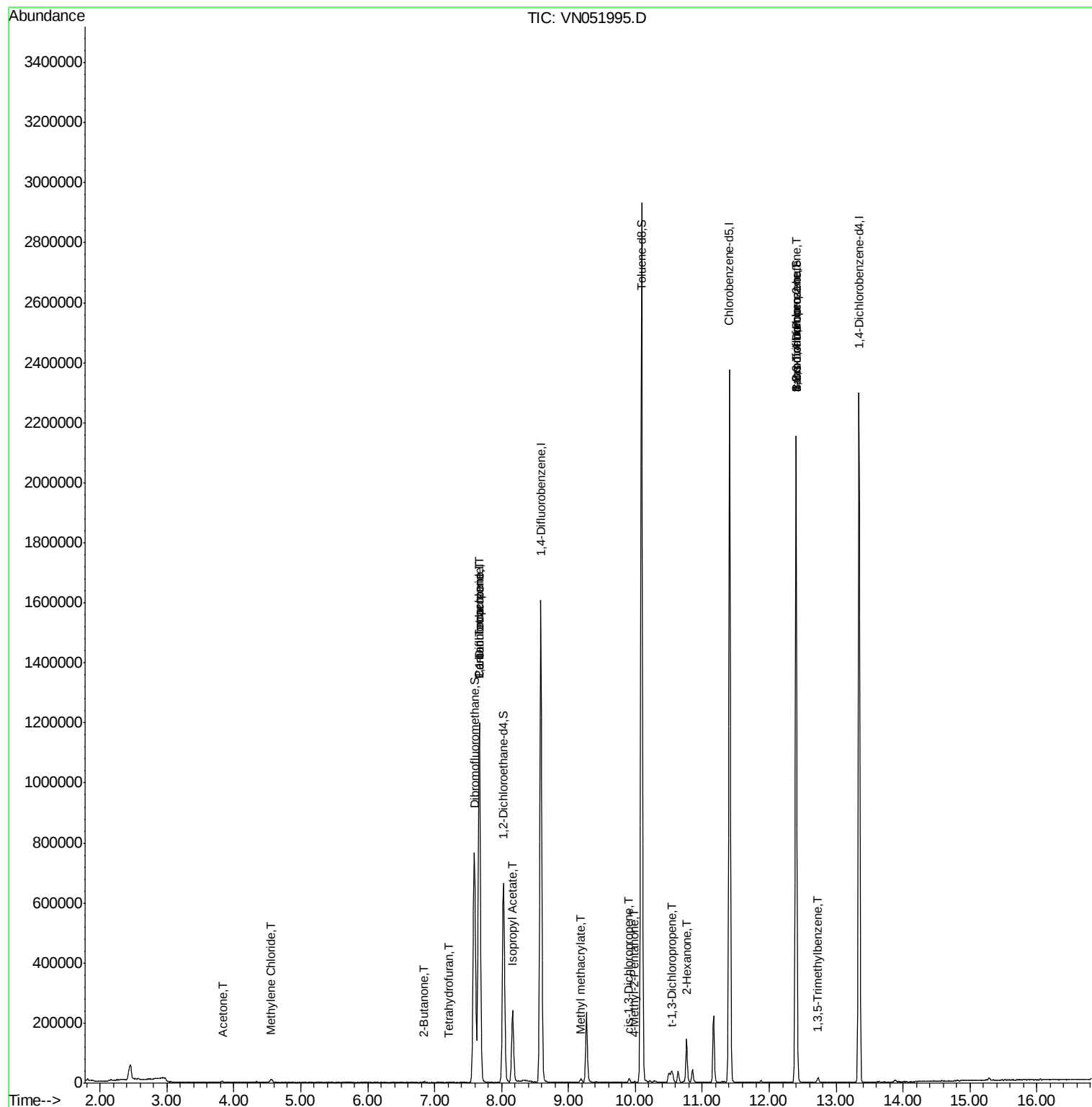
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1064838	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1568576	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1485830	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	671012	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	559280	58.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	117.94%	
35) Dibromofluoromethane	7.59	113	580338	57.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.96%	
50) Toluene-d8	10.09	98	2158968	59.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.38%	
62) 4-Bromofluorobenzene	12.40	95	685863	55.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.34%	
Target Compounds						
					Qvalue	
16) Acetone	3.82	43	4692	3.003	ug/l	98
18) Methyl Acetate	4.33	43	3342	Below Cal	#	62
20) Methylene Chloride	4.55	84	8589	0.937	ug/l	95
25) 2-Butanone	6.85	43	1538	0.690	ug/l #	88
29) Tetrahydrofuran	7.21	42	504	0.334	ug/l #	61
31) Cyclohexane	7.66	56	16850	Below Cal	#	47
36) 1,1-Dichloropropene	7.67	75	62447	5.190	ug/l #	48
37) Ethyl Acetate	6.92	43	104	Below Cal	#	64
38) Carbon Tetrachloride	7.67	117	95196	6.892	ug/l #	15
43) Isopropyl Acetate	8.17	43	258759	25.679	ug/l	99
48) Methyl methacrylate	9.18	41	5607	1.151	ug/l #	9
51) 4-Methyl-2-Pentanone	9.99	43	1710	0.309	ug/l #	32
53) t-1,3-Dichloropropene	10.55	75	292	1.267	ug/l #	43
54) cis-1,3-Dichloropropene	9.90	75	2852	0.222	ug/l #	68
59) 2-Hexanone	10.76	43	18200	4.887	ug/l #	53
71) Bromoform	12.40	173	5742	4.359	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	329866	47.592	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7036	0.206	ug/l	91
81) trans-1,4-Dichloro-2-buten	12.40	75	329866	149.683	ug/l #	12

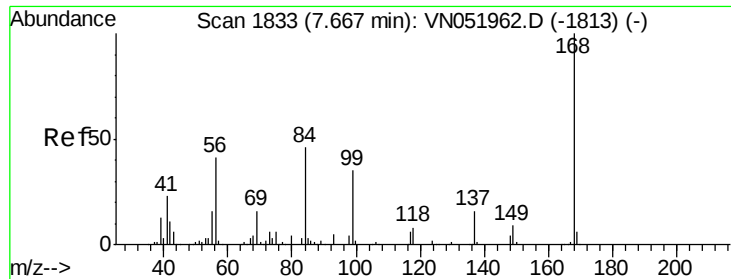
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051995.D

Acq: 24 Oct 2018 18:27

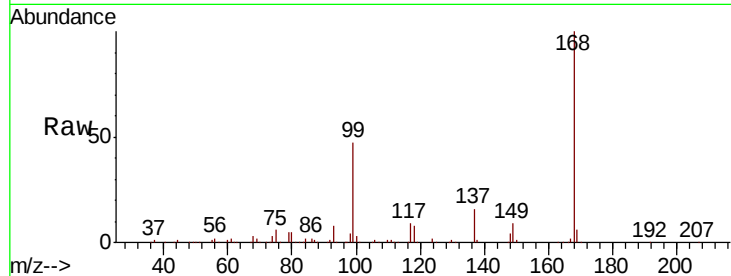
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 1064838

Ion Ratio Lower Upper

168 100

99 47.2 37.8 56.6



Abundance Ion 167.90 (167.60 to 168.60): VN051962.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051962.D (-1813) (-)

7.67

400000

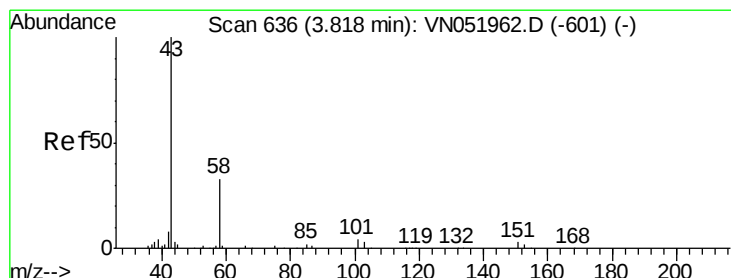
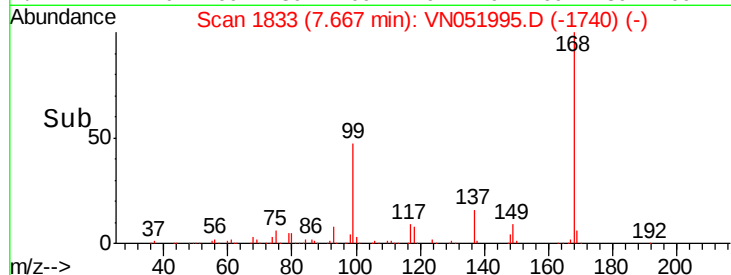
300000

200000

100000

0

Time--> 7.50 7.60 7.70 7.80



#16

Acetone

Concen: 3.003 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN051995.D

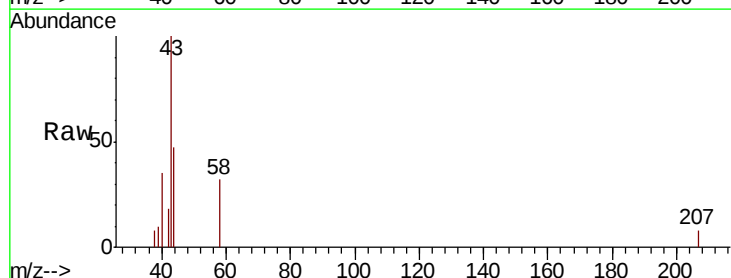
Acq: 24 Oct 2018 18:27

Tgt Ion: 43 Resp: 4692

Ion Ratio Lower Upper

43 100

58 34.8 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN051962.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN051962.D (-601) (-)

3.82

2500

2000

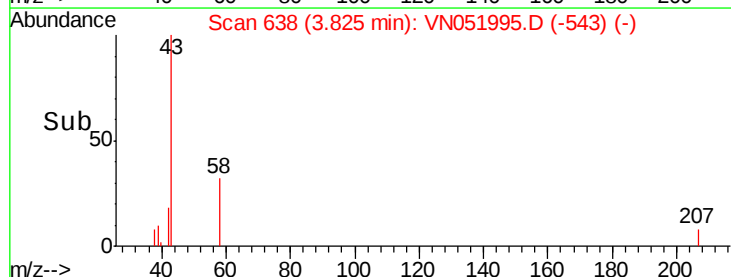
1500

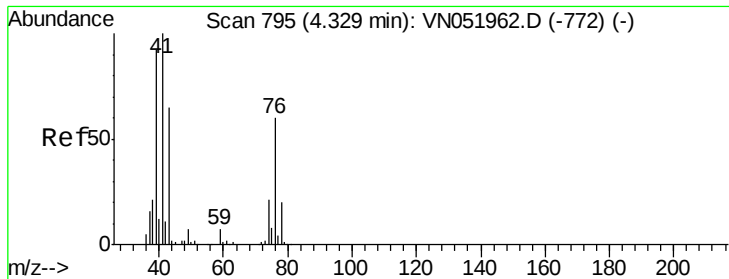
1000

500

0

Time--> 3.75 3.80 3.85

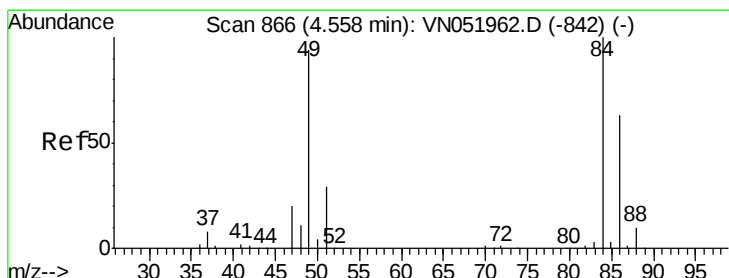
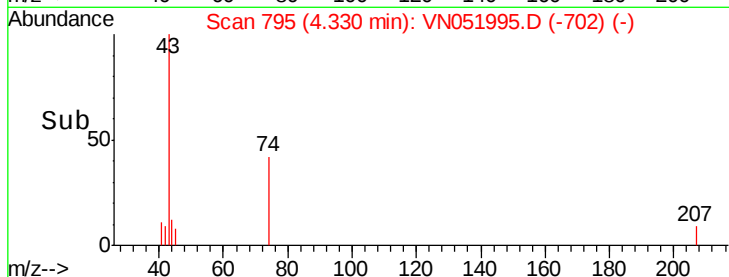
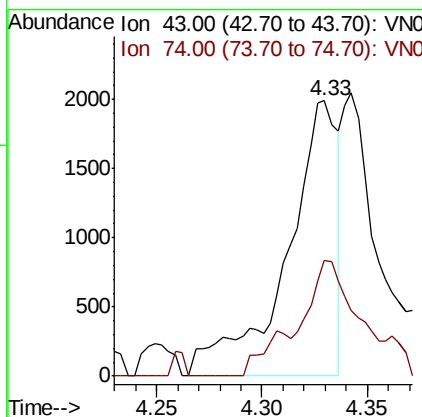
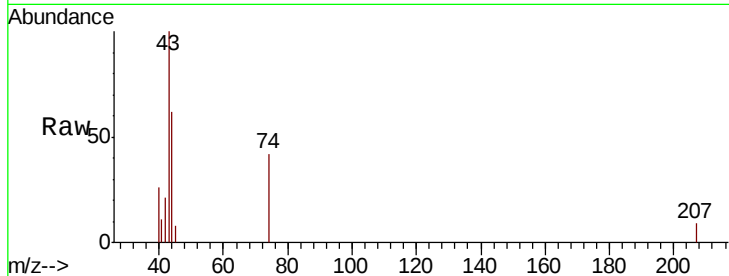




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051995.D
Acq: 24 Oct 2018 18:27

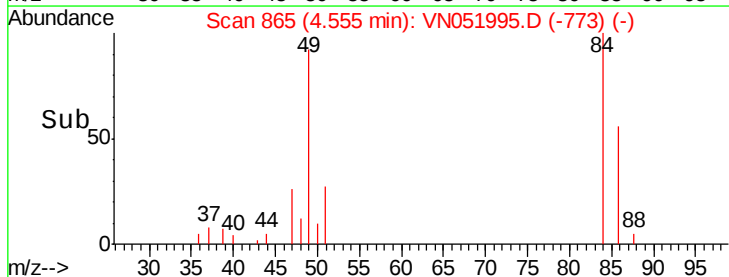
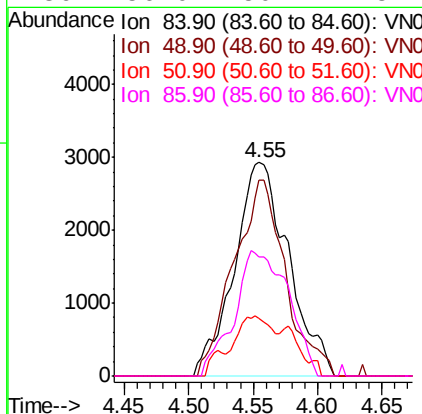
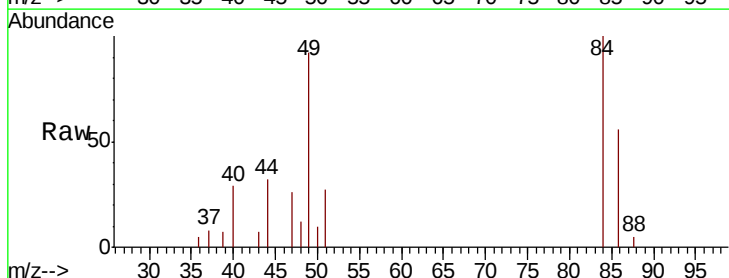
Instrument :
MSVOA_N
ClientSampled :

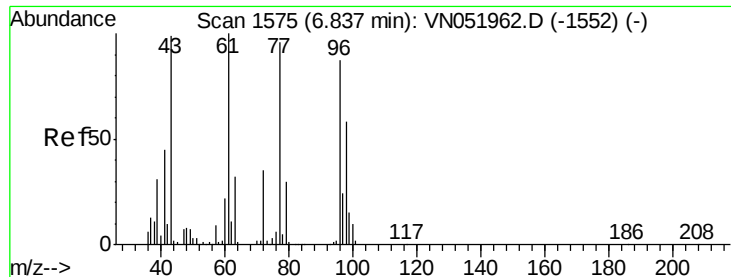
Tot Ion: 43 Resp: 3342
Ion Ratio Lower Upper
43 100
74 53.6 25.7 38.5#



#20
Methylene Chloride
Concen: 0.937 ug/l
RT: 4.55 min Scan# 866
Delta R.T. -0.00 min
Lab File: VN051995.D
Acq: 24 Oct 2018 18:27

Tgt Ion: 84 Resp: 8589
Ion Ratio Lower Upper
84 100
49 91.7 75.4 113.0
51 26.9 23.1 34.7
86 56.0 50.2 75.4





#25

2-Butanone

Concen: 0.690 ug/l

RT: 6.85 min Scan# 1578

Delta R.T. 0.01 min

Lab File: VN051995.D

Acq: 24 Oct 2018 18:27

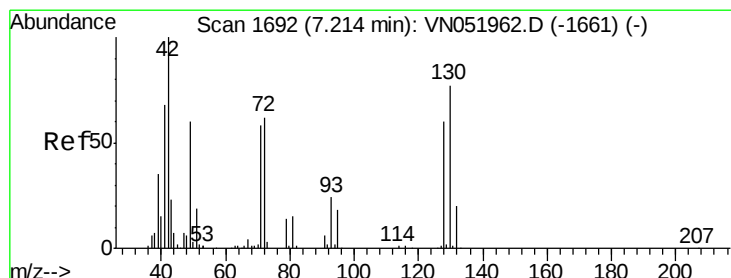
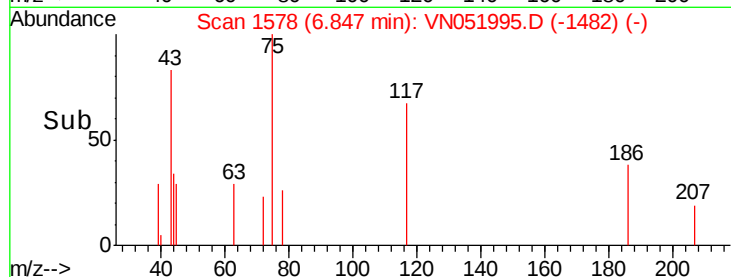
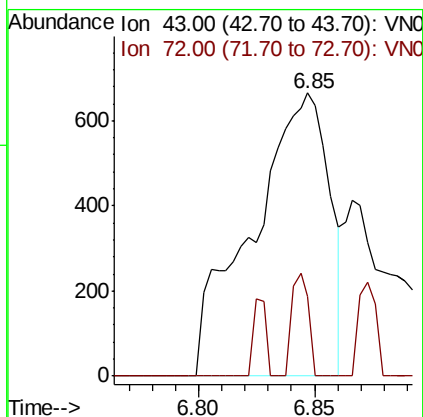
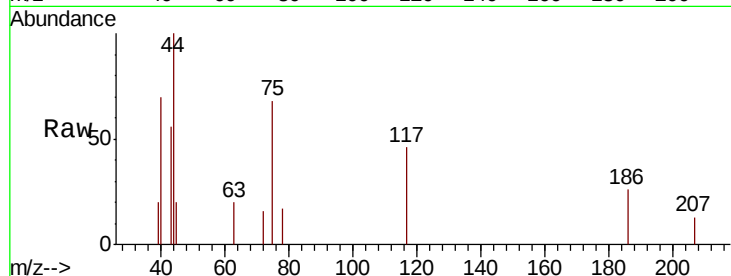
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 1538

Ion Ratio Lower Upper

43 100

72 28.4 28.5 42.7#



#29

Tetrahydrofuran

Concen: 0.334 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN051995.D

Acq: 24 Oct 2018 18:27

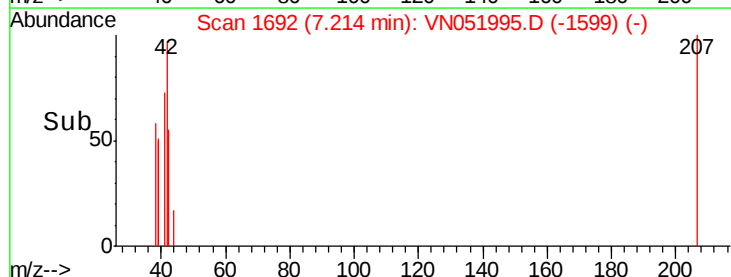
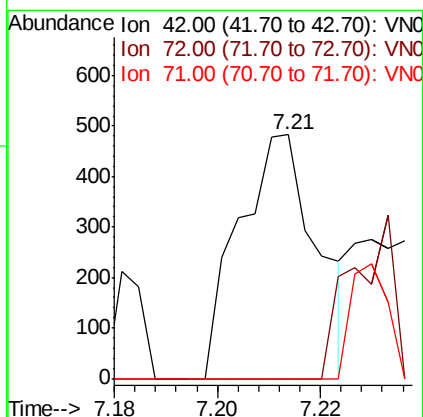
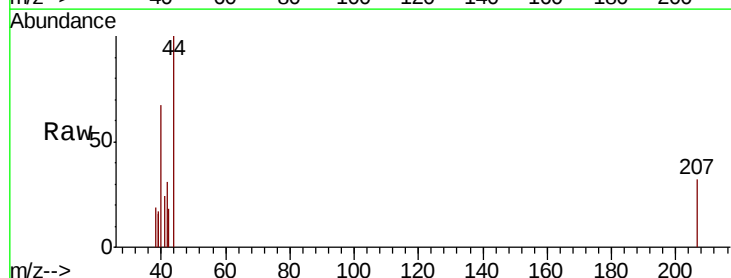
Tgt Ion: 42 Resp: 504

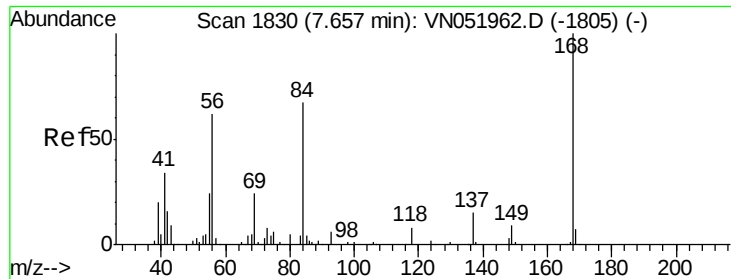
Ion Ratio Lower Upper

42 100

72 35.5 47.5 71.3#

71 22.4 45.4 68.2#

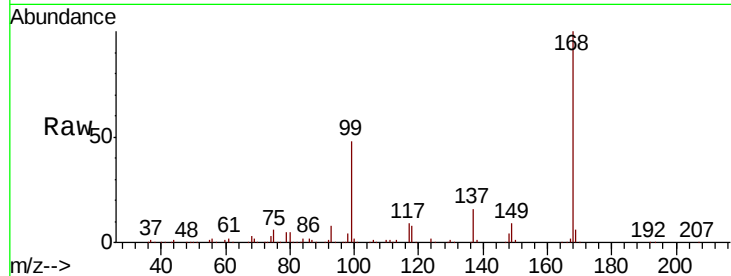




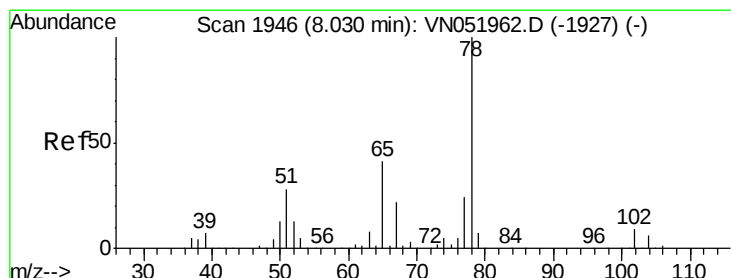
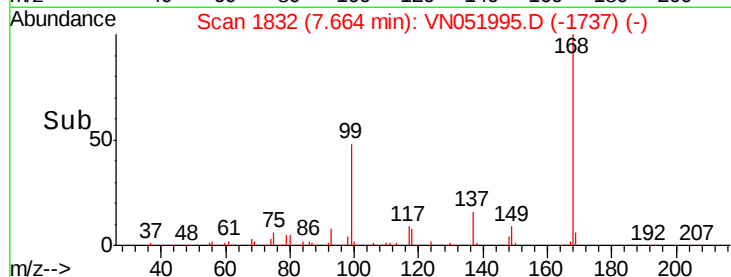
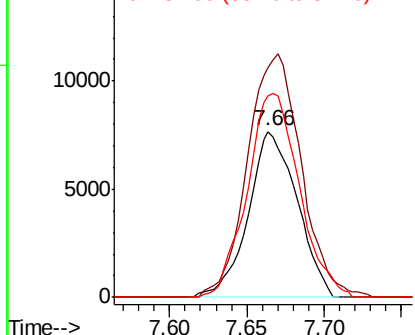
#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN051995.D
Acq: 24 Oct 2018 18:27

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 16850
Ion Ratio Lower Upper
56 100
69 138.0 31.2 46.8#
84 121.4 86.3 129.5

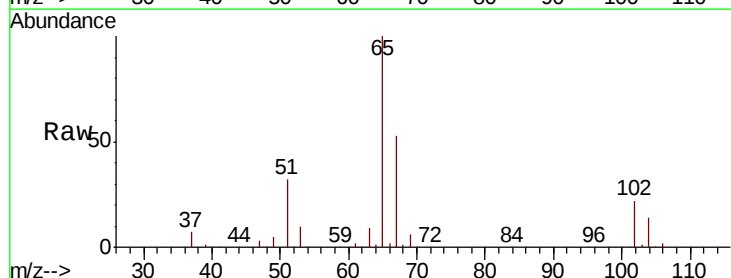


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

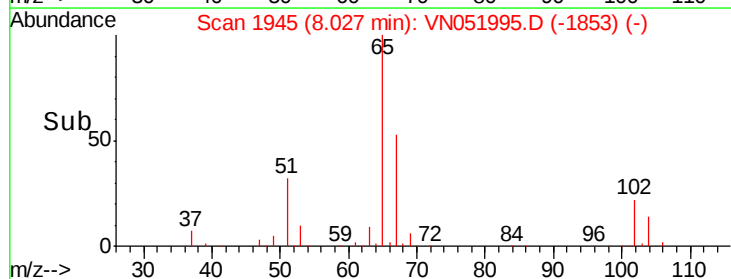
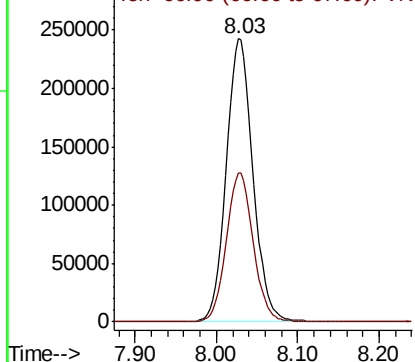


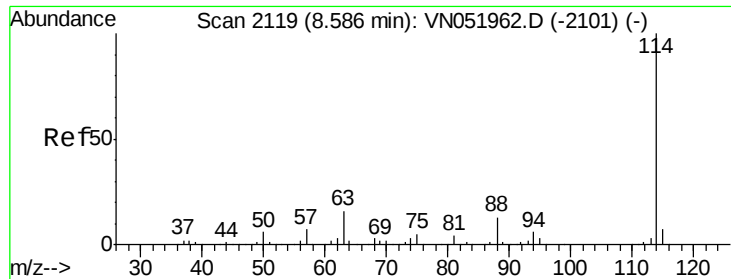
#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN051995.D
Acq: 24 Oct 2018 18:27

Tgt Ion: 65 Resp: 559280
Ion Ratio Lower Upper
65 100
67 53.1 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

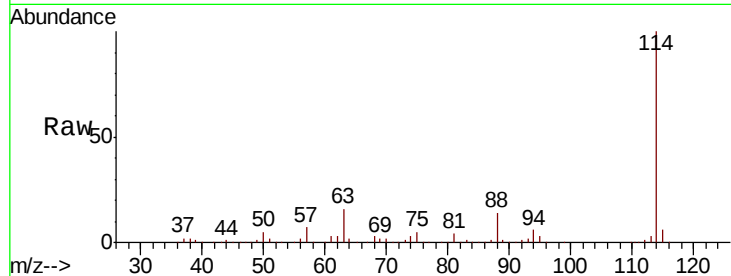




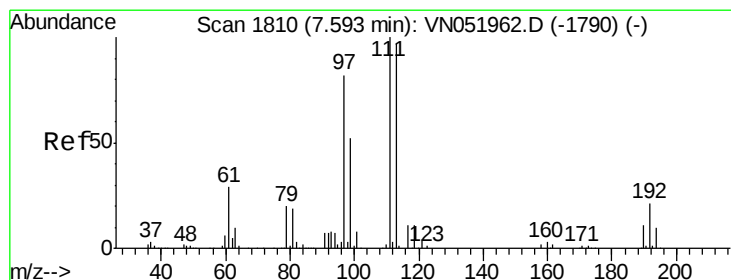
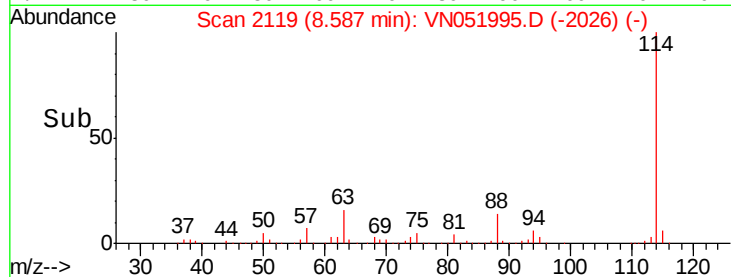
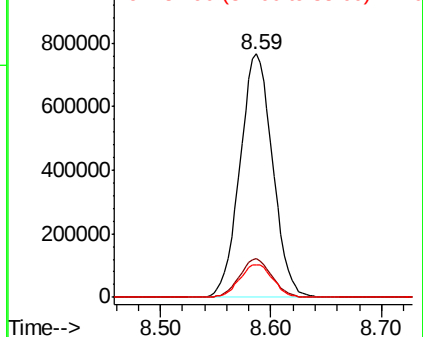
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051995.D
 Acq: 24 Oct 2018 18:27

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:114 Resp: 1568576
 Ion Ratio Lower Upper
 114 100
 63 15.7 0.0 31.2
 88 13.6 0.0 27.0

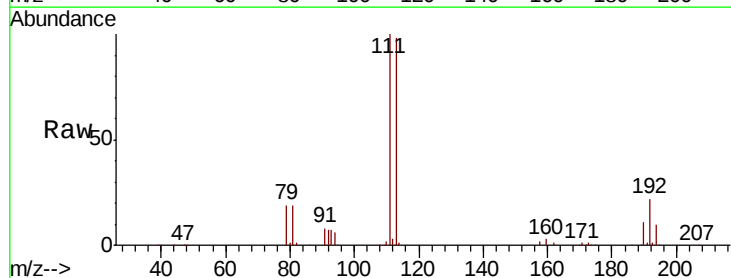


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

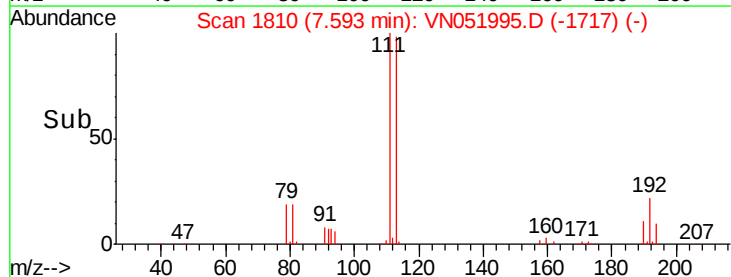
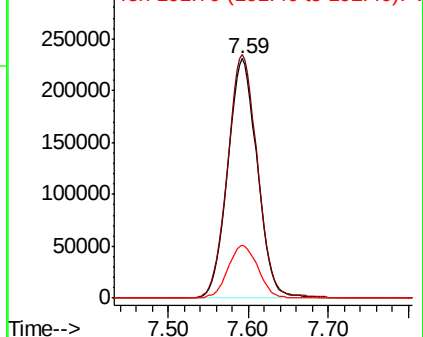


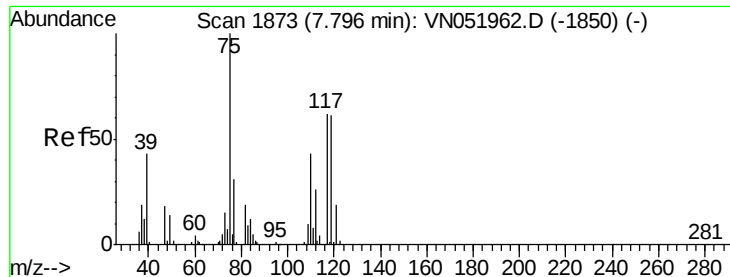
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051995.D
 Acq: 24 Oct 2018 18:27

Tgt Ion:113 Resp: 580338
 Ion Ratio Lower Upper
 113 100
 111 101.9 80.7 121.1
 192 22.4 17.2 25.8



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: 5.190 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051995.D

Acq: 24 Oct 2018 18:27

Instrument :
MSVOA_N
ClientSampleId :

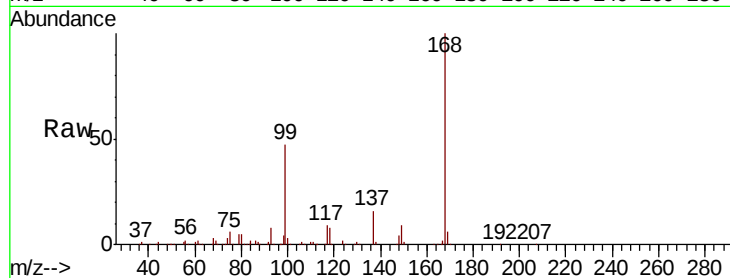
Tot Ion: 75 Resp: 62447

Ion Ratio Lower Upper

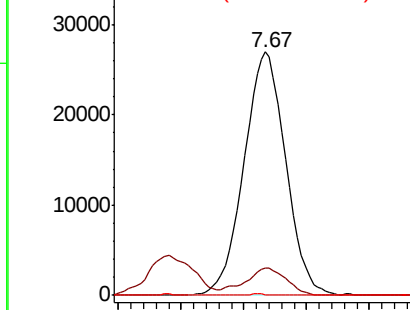
75 100

110 11.3 20.9 62.8#

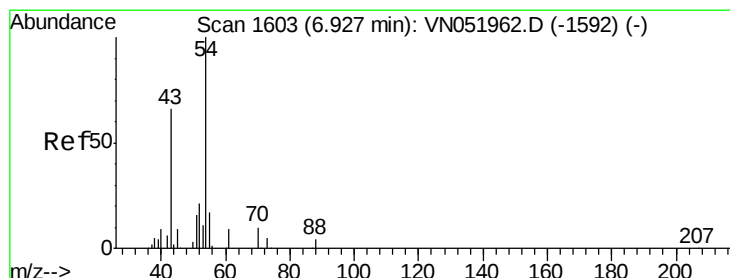
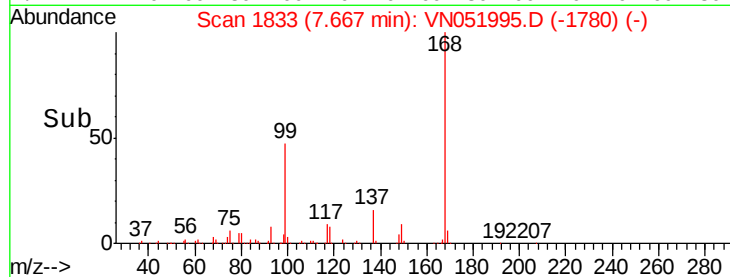
77 0.2 24.9 37.3#



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



Time-->



#37

Ethyl Acetate

Concen: Below Cal

RT: 6.92 min Scan# 1601

Delta R.T. -0.01 min

Lab File: VN051995.D

Acq: 24 Oct 2018 18:27

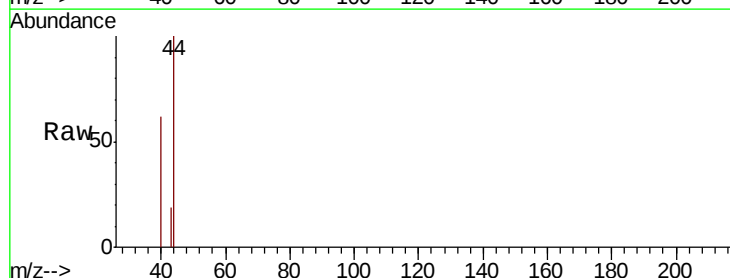
Tgt Ion: 43 Resp: 104

Ion Ratio Lower Upper

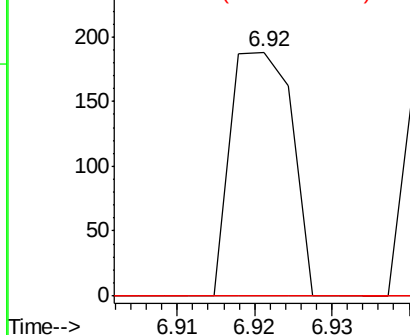
43 100

61 0.0 13.5 20.3#

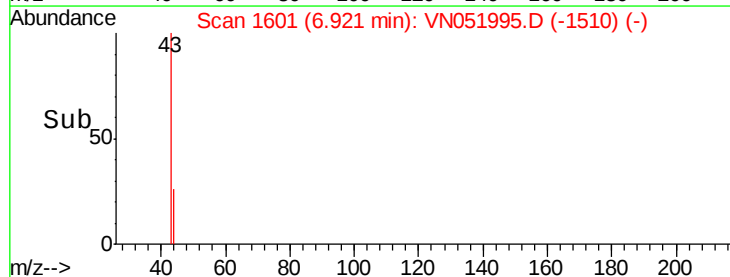
70 0.0 9.8 14.6#

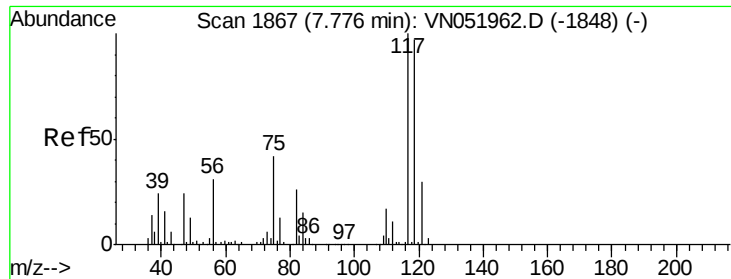


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 60.90 (60.60 to 61.60): VNO
Ion 70.00 (69.70 to 70.70): VNO



Time-->

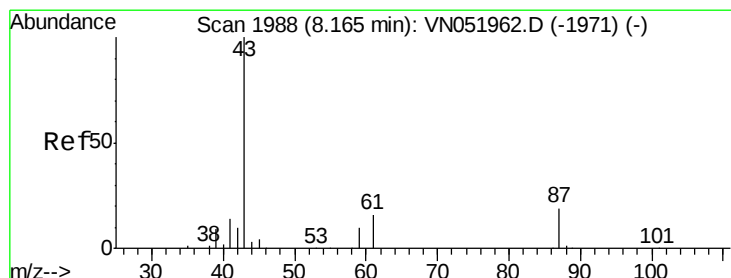
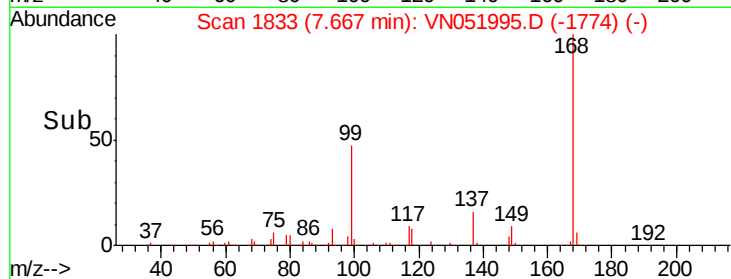
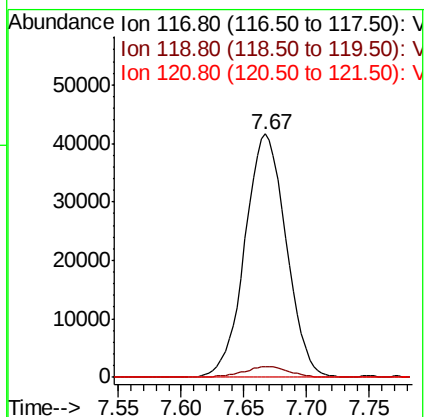
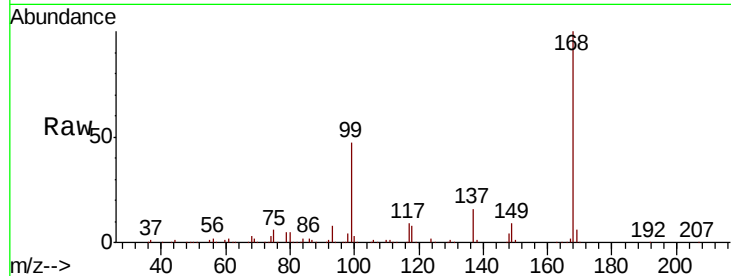




#38
Carbon Tetrachloride
Concen: 6.892 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN051995.D
Acq: 24 Oct 2018 18:27

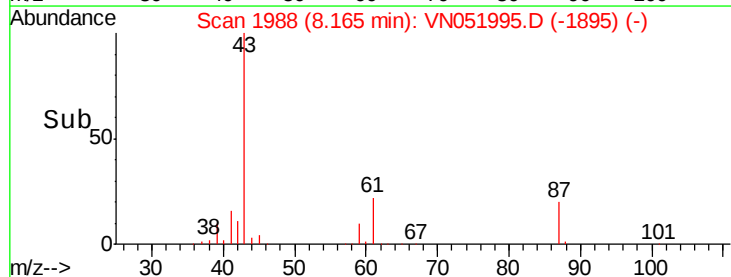
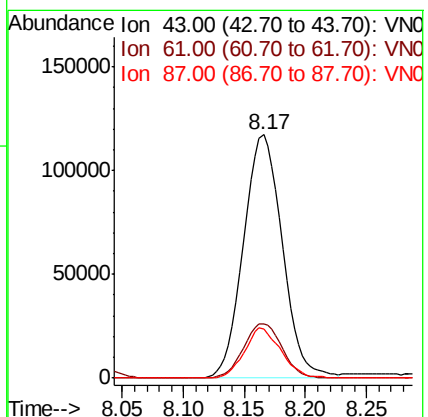
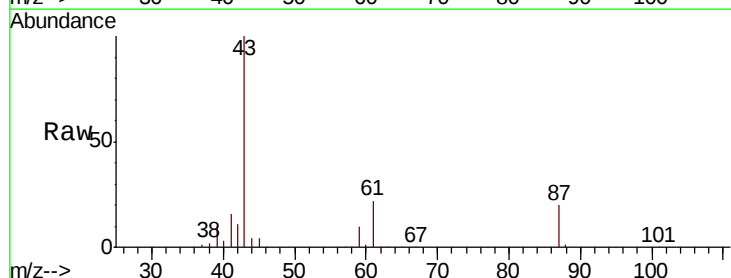
Instrument :
MSVOA_N
ClientSampled :

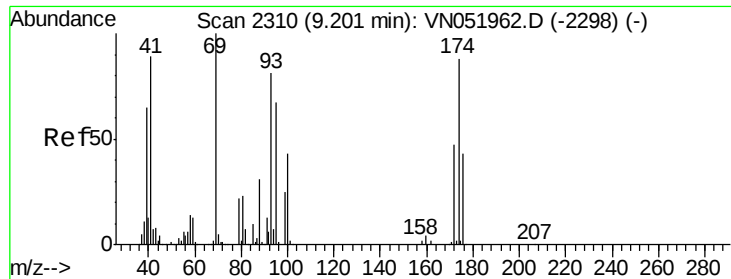
Tot Ion:117 Resp: 95196
Ion Ratio Lower Upper
117 100
119 4.5 77.4 116.0#
121 0.0 24.2 36.4#



#43
Isopropyl Acetate
Concen: 25.679 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051995.D
Acq: 24 Oct 2018 18:27

Tgt Ion: 43 Resp: 258759
Ion Ratio Lower Upper
43 100
61 22.0 17.2 25.8
87 19.2 15.2 22.8

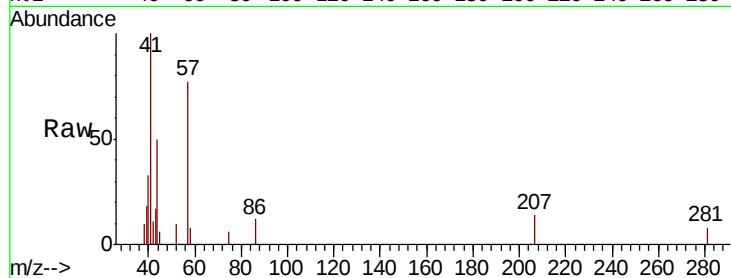




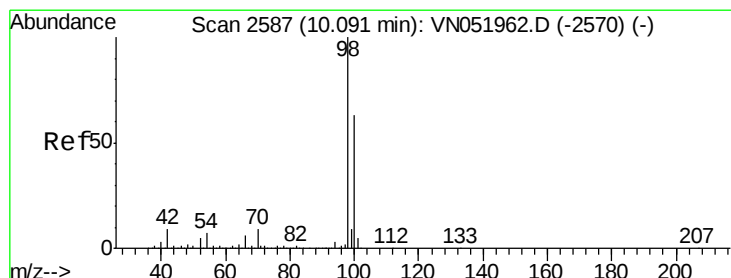
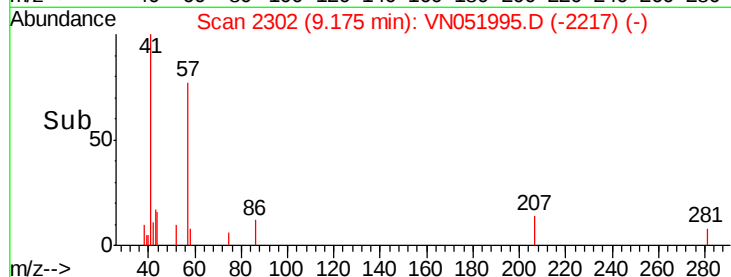
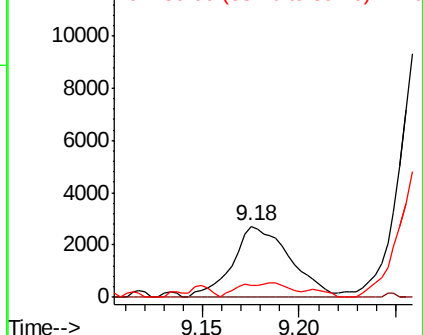
#48
Methvl methacrylate
Concen: 1.151 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.03 min
Lab File: VN051995.D
Acq: 24 Oct 2018 18:27

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 41 Resp: 5607
Ion Ratio Lower Upper
41 100
69 0.0 92.2 138.4#
39 17.9 60.2 90.4#

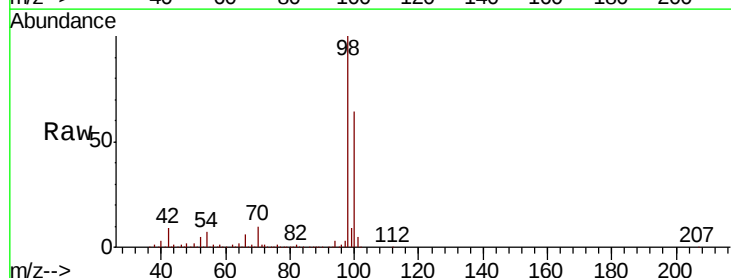


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

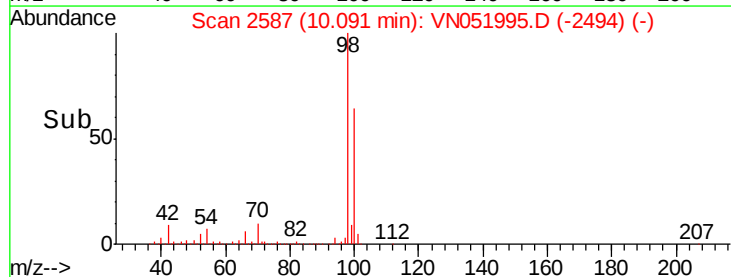
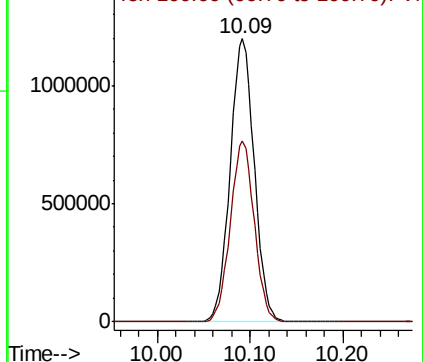


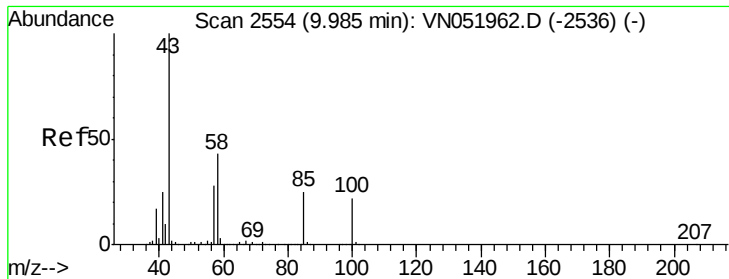
#50
Toluene-d8
Concen: N.D. ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN051995.D
Acq: 24 Oct 2018 18:27

Tgt Ion: 98 Resp: 2158968
Ion Ratio Lower Upper
98 100
100 63.5 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

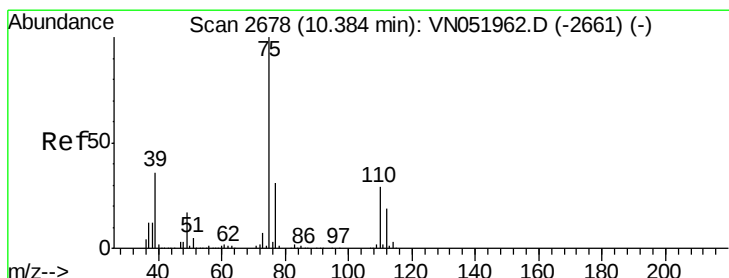
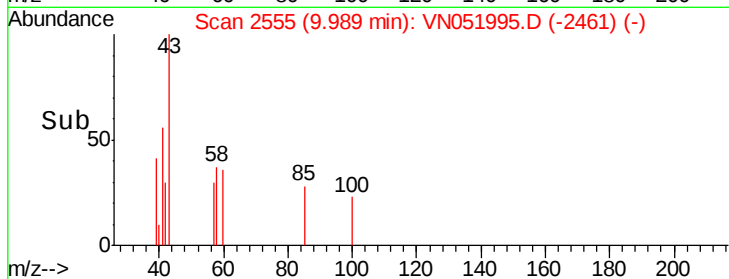
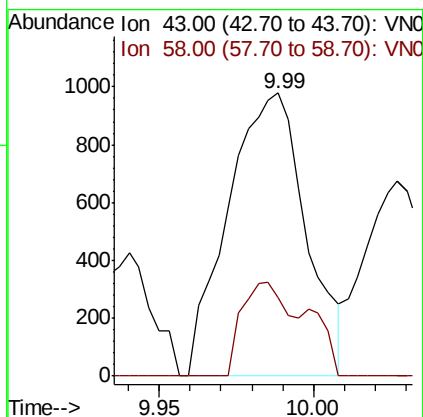
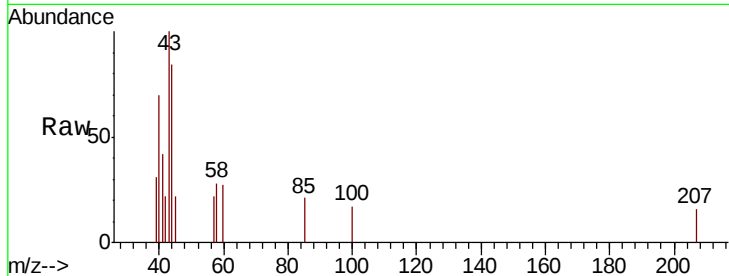




#51
4-Methyl-2-Pentanone
Concen: 0.309 ug/l
RT: 9.99 min Scan# 2555
Delta R.T. 0.00 min
Lab File: VN051995.D
Acq: 24 Oct 2018 18:27

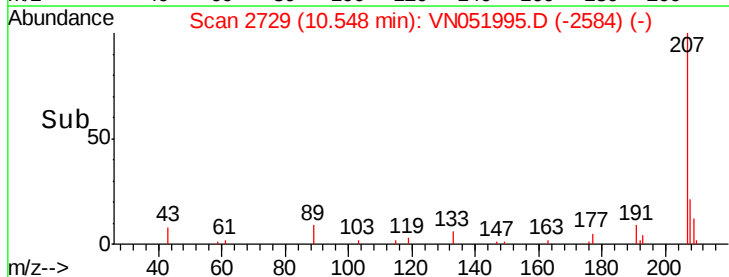
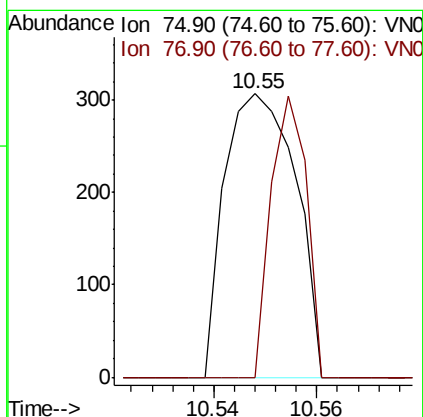
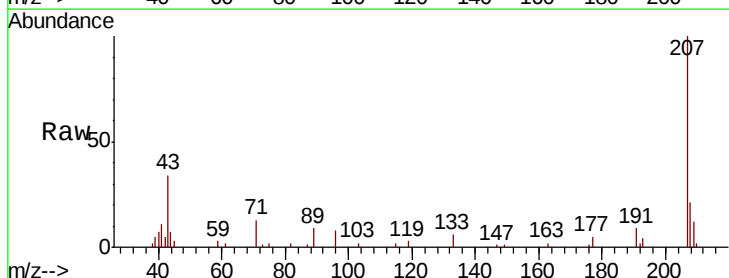
Instrument :
MSVOA_N
ClientSampleId :

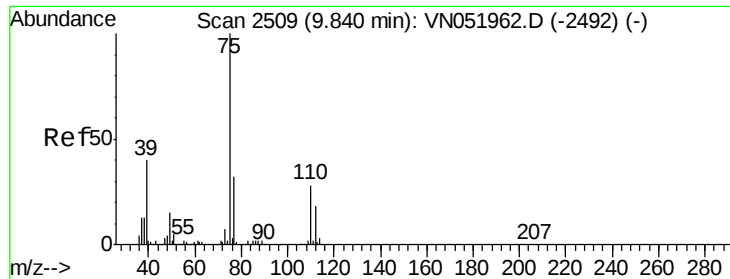
Tot Ion: 43 Resp: 1710
Ion Ratio Lower Upper
43 100
58 0.0 34.8 52.2#



#53
t-1,3-Dichloropropene
Concen: 1.267 ug/l
RT: 10.55 min Scan# 2729
Delta R.T. 0.17 min
Lab File: VN051995.D
Acq: 24 Oct 2018 18:27

Tgt Ion: 75 Resp: 292
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#



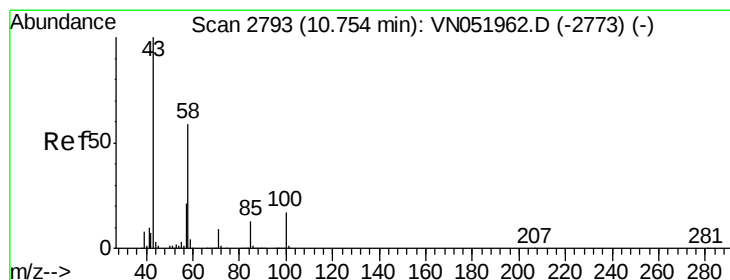
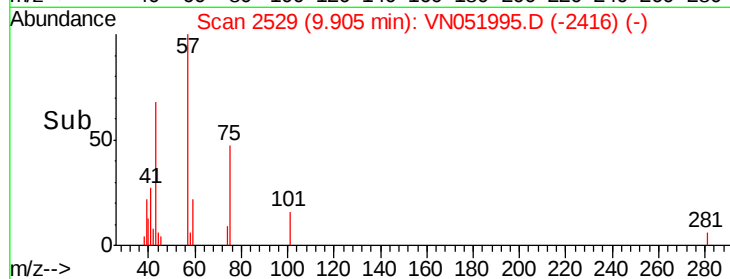
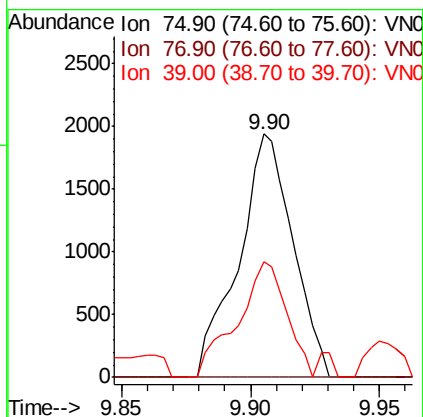
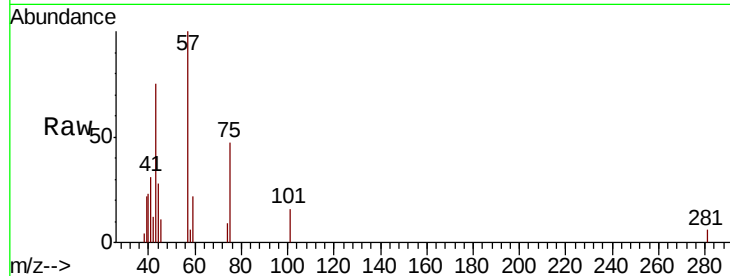


#54

cis-1,3-Dichloropropene
 Concen: 0.222 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.06 min
 Lab File: VN051995.D
 Acq: 24 Oct 2018 18:27

Instrument :
 MSVOA_N
 ClientSampled :

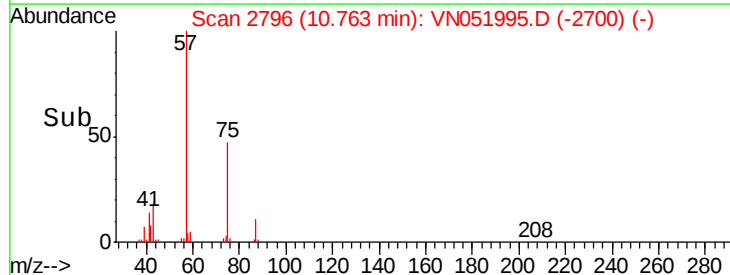
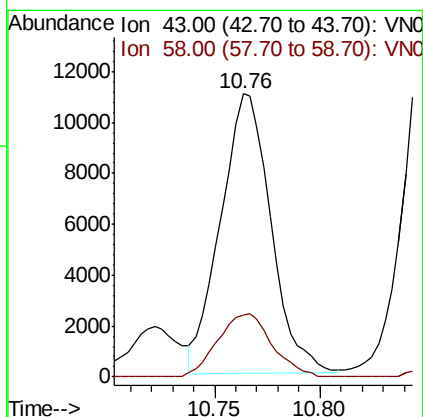
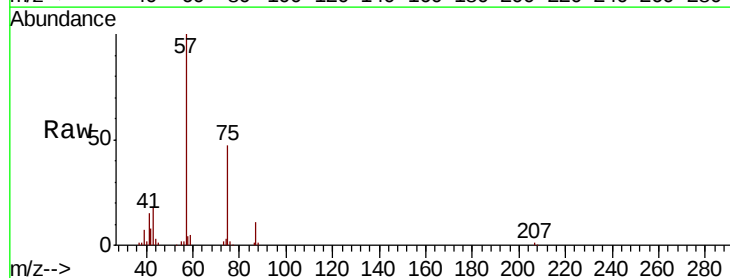
Tot Ion: 75 Resp: 2852
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 47.4 32.0 48.0

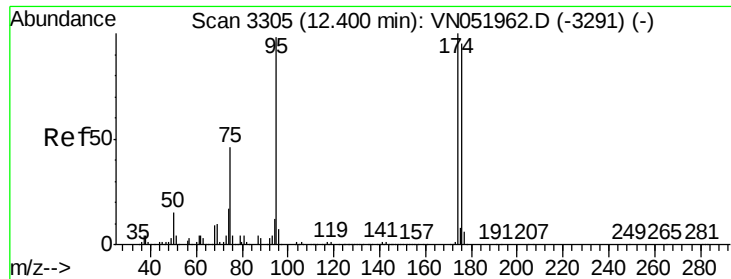


#59

2-Hexanone
 Concen: 4.887 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN051995.D
 Acq: 24 Oct 2018 18:27

Tgt Ion: 43 Resp: 18200
 Ion Ratio Lower Upper
 43 100
 58 24.2 29.9 89.8#

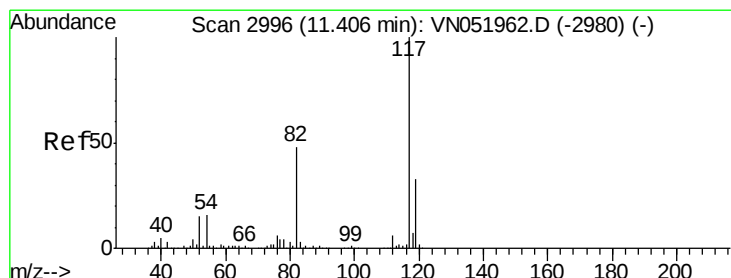
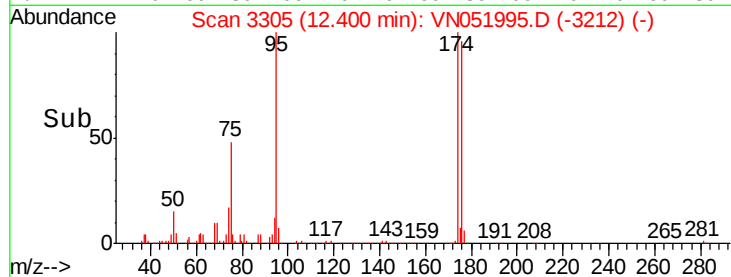
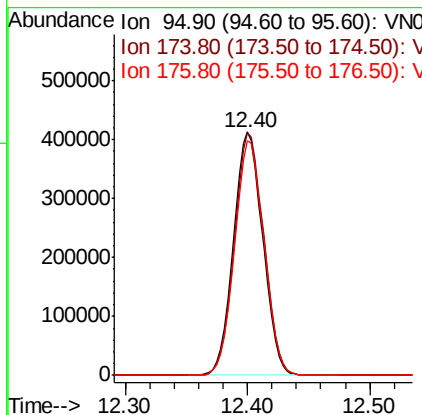
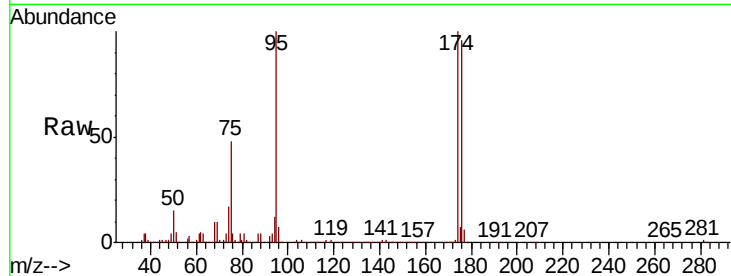




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN051995.D
Acq: 24 Oct 2018 18:27

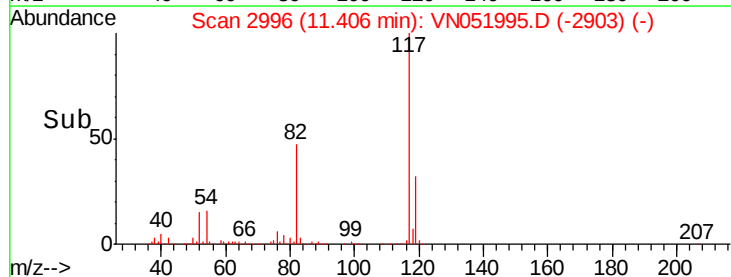
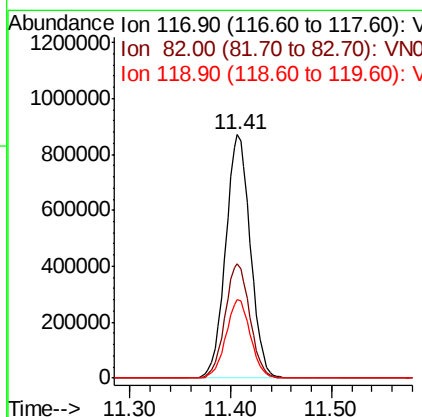
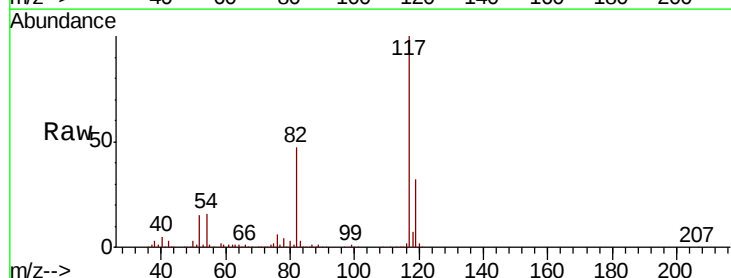
Instrument :
MSVOA_N
ClientSampleId :

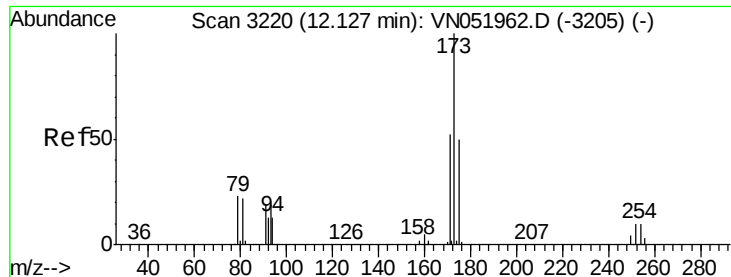
Tot Ion: 95 Resp: 685863
Ion Ratio Lower Upper
95 100
174 100.3 0.0 206.0
176 96.7 0.0 198.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051995.D
Acq: 24 Oct 2018 18:27

Tgt Ion: 117 Resp: 1485830
Ion Ratio Lower Upper
117 100
82 47.0 38.1 57.1
119 32.1 26.4 39.6





#71

Bromoform

Concen: 4.359 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN051995.D

Acq: 24 Oct 2018 18:27

Instrument :

MSVOA_N

ClientSampleId :

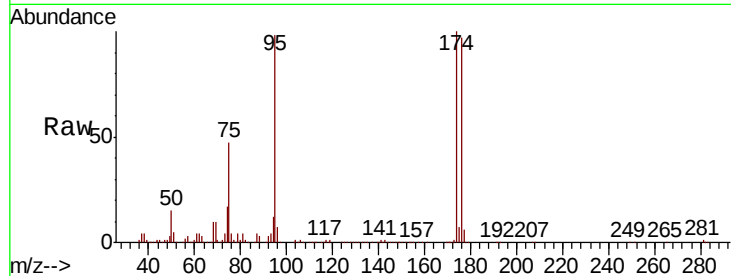
Tot Ion:173 Resp: 5742

Ion Ratio Lower Upper

173 100

175 771.3 24.6 74.0#

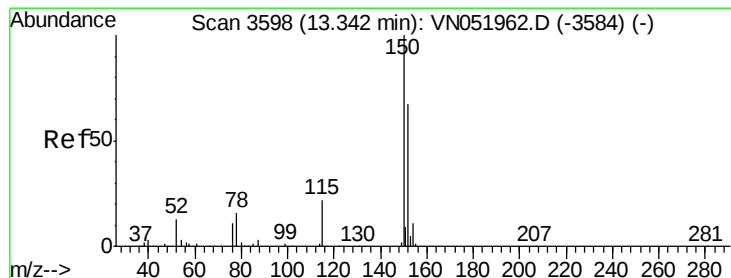
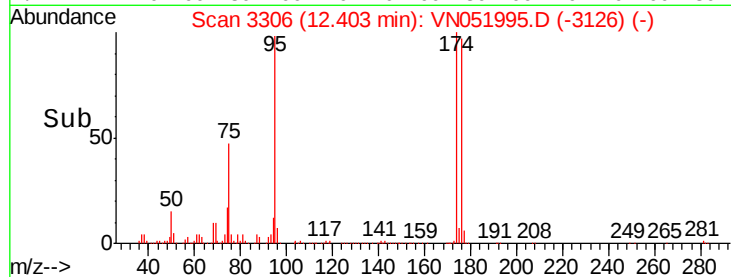
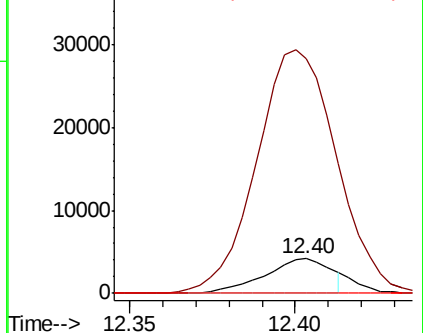
254 0.0 0.1 0.1#



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: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN051995.D

Acq: 24 Oct 2018 18:27

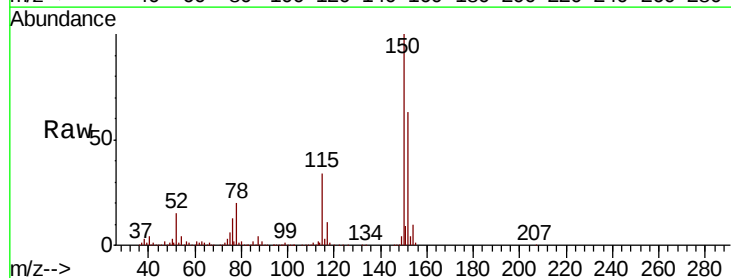
Tgt Ion:152 Resp: 671012

Ion Ratio Lower Upper

152 100

115 53.3 25.8 77.3

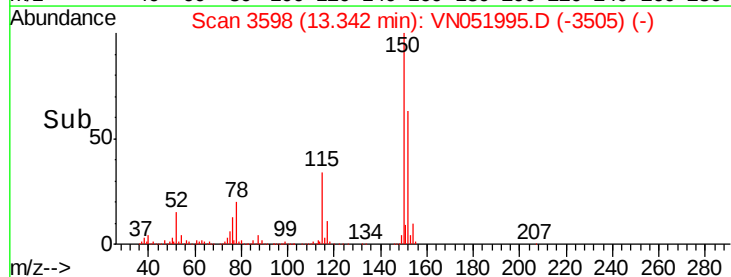
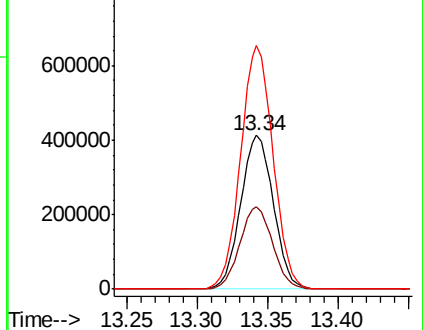
150 156.9 0.0 344.4

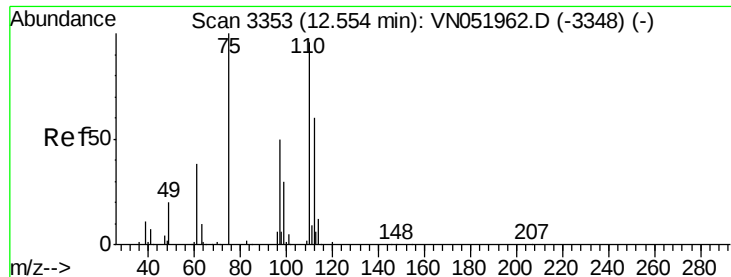


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 47.592 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN051995.D

Acq: 24 Oct 2018 18:27

Instrument :

MSVOA_N

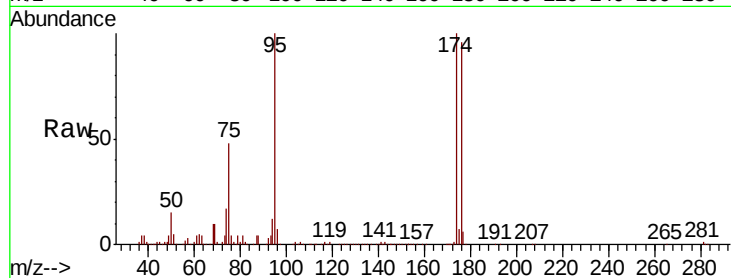
ClientSampled :

Tot Ion: 75 Resp: 329866

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051962.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN051962.D (-3348) (-)

12.40

200000

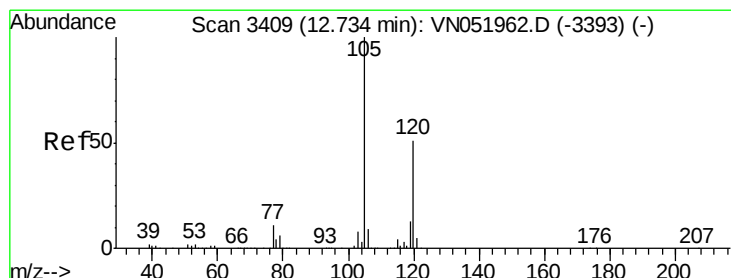
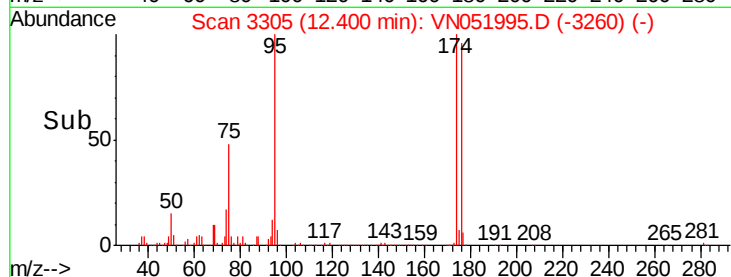
150000

100000

50000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.206 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051995.D

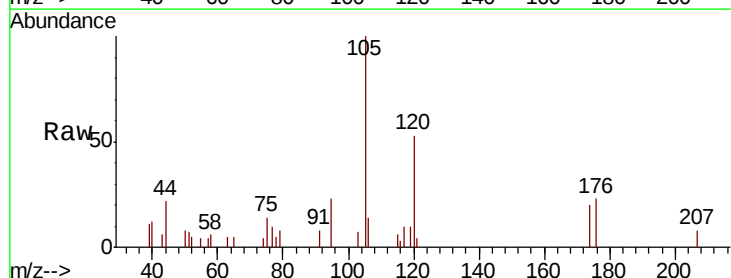
Acq: 24 Oct 2018 18:27

Tgt Ion: 105 Resp: 7036

Ion Ratio Lower Upper

105 100

120 57.8 25.7 77.1



Abundance Ion 105.00 (104.70 to 105.70): VN051962.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN051962.D (-3393) (-)

12.73

5000

4000

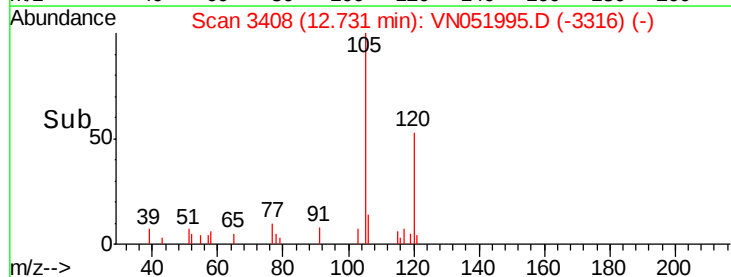
3000

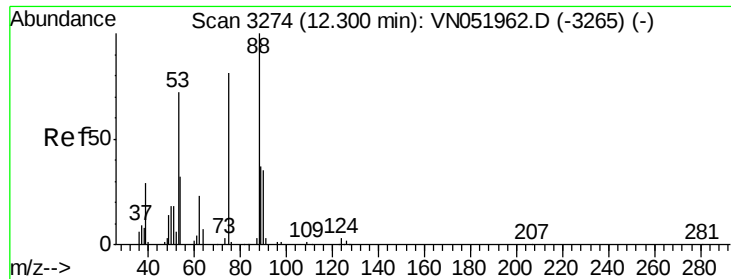
2000

1000

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 149.683 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN051995.D

Acq: 24 Oct 2018 18:27

Instrument :

MSVOA_N

ClientSampleId :

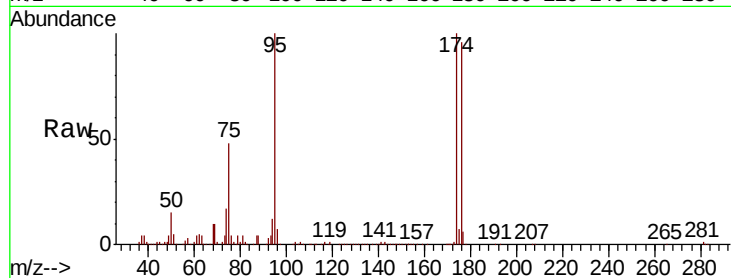
Tot Ion: 75 Resp: 329866

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

89 0.0 41.6 62.4#



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

