

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021519\
 Data File : VN053802.D
 Acq On : 15 Feb 2019 16:11
 Operator : JC/SP
 Sample : K1502-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 15 23:25:40 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	719876	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1174313	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1057129	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	421360	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	382504	52.97	ug/l	0.00
Spiked Amount			Recovery	=	105.94%	
35) Dibromofluoromethane	7.59	113	385811	52.00	ug/l	0.00
Spiked Amount			Recovery	=	104.00%	
50) Toluene-d8	10.09	98	1378672	49.48	ug/l	0.00
Spiked Amount			Recovery	=	98.96%	
62) 4-Bromofluorobenzene	12.40	95	455058	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	

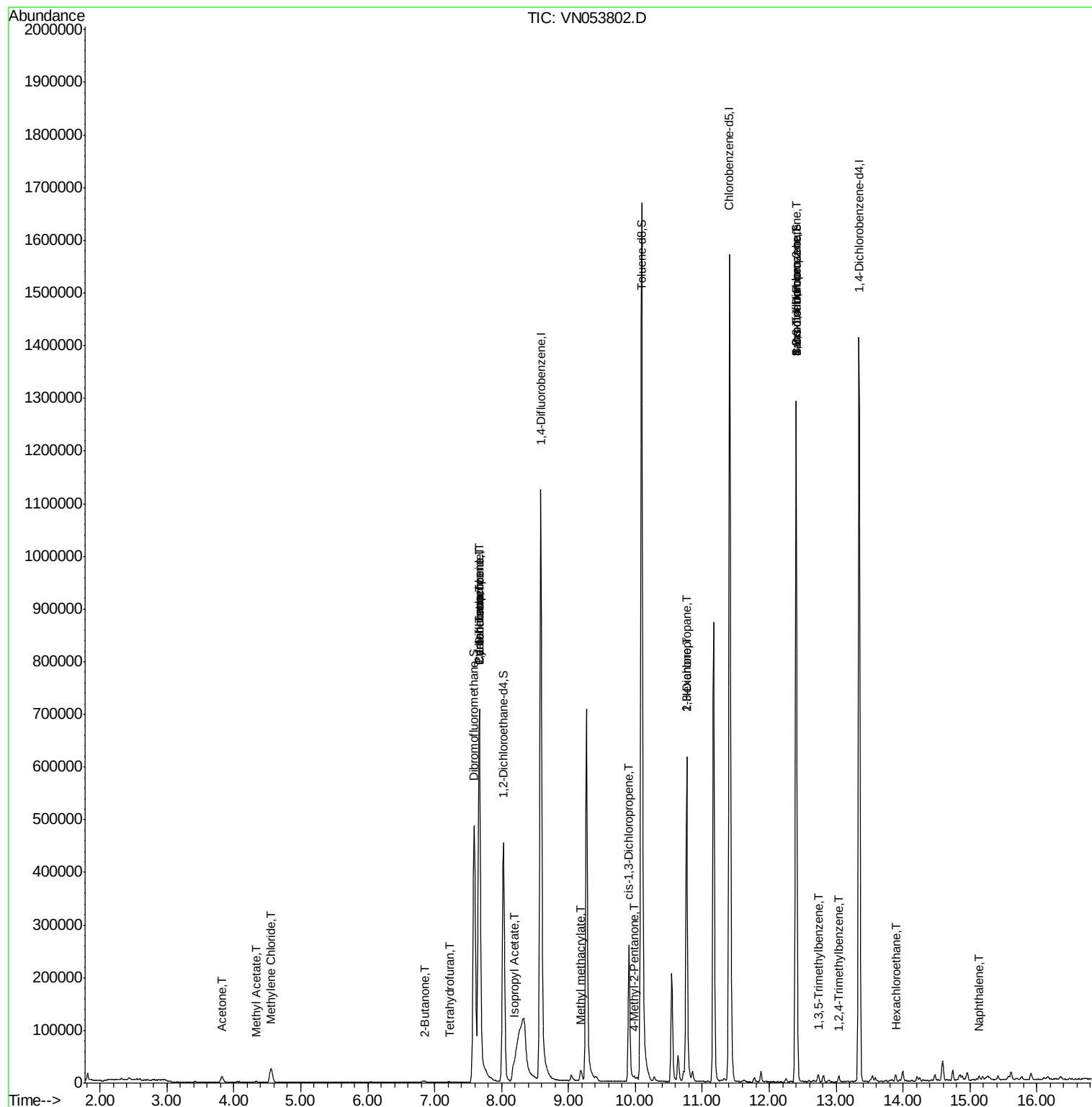
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	20916	11.291	ug/l	92
18) Methyl Acetate	4.33	43	4109	0.749	ug/l #	76
20) Methylene Chloride	4.55	84	20670	2.660	ug/l	95
25) 2-Butanone	6.85	43	3770	1.427	ug/l #	84
29) Tetrahydrofuran	7.23	42	1399	0.825	ug/l #	51
31) Cyclohexane	7.67	56	10662	0.706	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	42392	4.005	ug/l #	48
38) Carbon Tetrachloride	7.67	117	59105	5.543	ug/l #	16
43) Isopropyl Acetate	8.18	43	23219	2.034	ug/l #	85
48) Methyl methacrylate	9.18	41	7463	1.369	ug/l #	20
51) 4-Methyl-2-Pentanone	9.99	43	4750	0.847	ug/l	97
54) cis-1,3-Dichloropropene	9.91	75	54935	4.424	ug/l #	63
57) 1,3-Dichloropropane	10.76	76	6554	0.549	ug/l #	43
59) 2-Hexanone	10.77	43	89714	23.554	ug/l #	51
71) Bromoform	12.40	173	2690	0.500	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	208356	38.498	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7304	0.297	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	208356	108.254	ug/l #	15
84) 1,2,4-Trimethylbenzene	13.04	105	7202	0.288	ug/l	100
90) Hexachloroethane	13.90	117	916	0.215	ug/l #	3
95) Naphthalene	15.14	128	7109	2.107	ug/l #	95

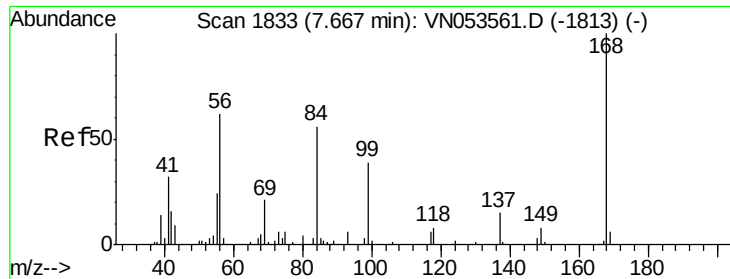
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Fri Feb 01 09:11:52 2019
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: VN053802.D

Acq: 15 Feb 2019 16:11

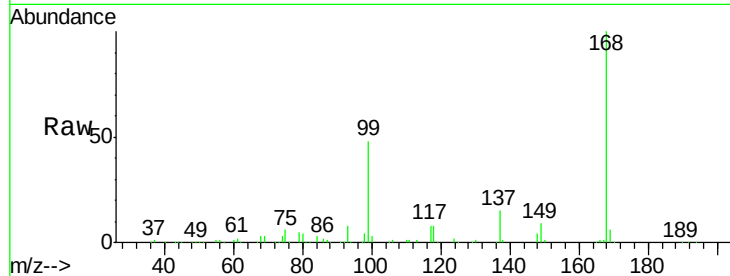
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 719876

Ion Ratio Lower Upper

168 100

99 47.5 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

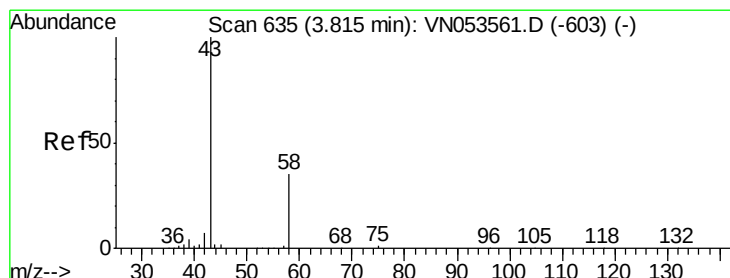
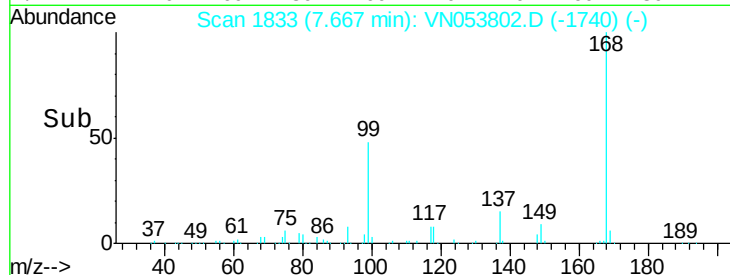
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#16

Acetone

Concen: 11.291 ug/l

RT: 3.82 min Scan# 636

Delta R.T. 0.00 min

Lab File: VN053802.D

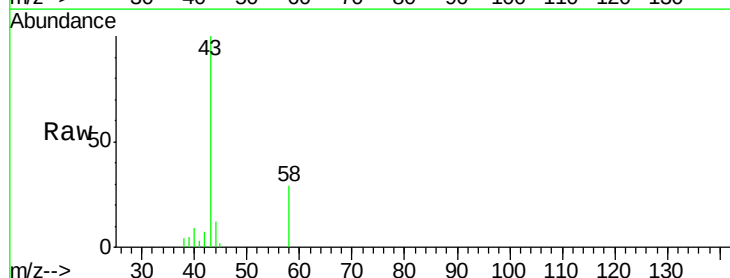
Acq: 15 Feb 2019 16:11

Tgt Ion: 43 Resp: 20916

Ion Ratio Lower Upper

43 100

58 29.1 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

3.82

8000

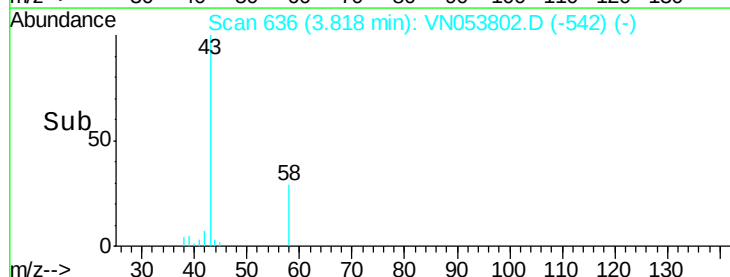
6000

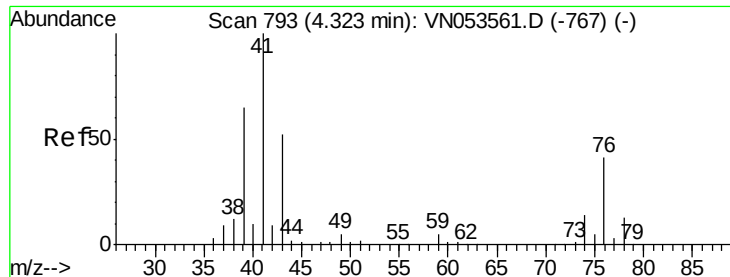
4000

2000

0

Time--> 3.75 3.80 3.85 3.90

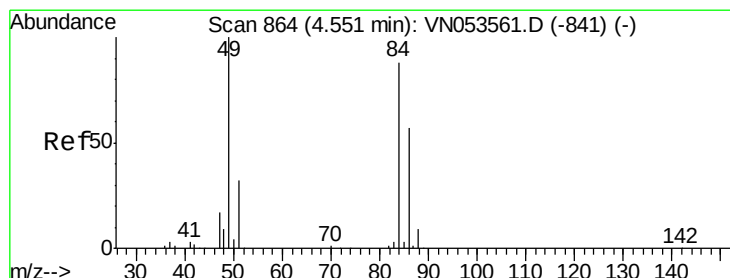
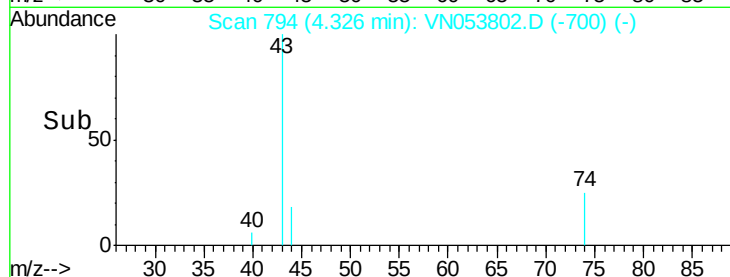
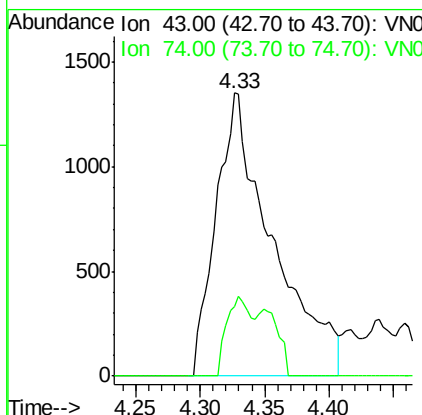
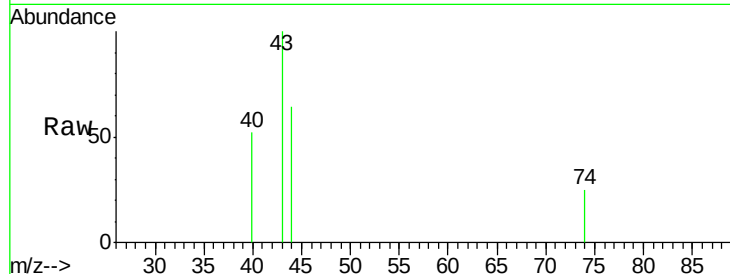




#18
Methyl Acetate
Concen: 0.749 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN053802.D
Acq: 15 Feb 2019 16:11

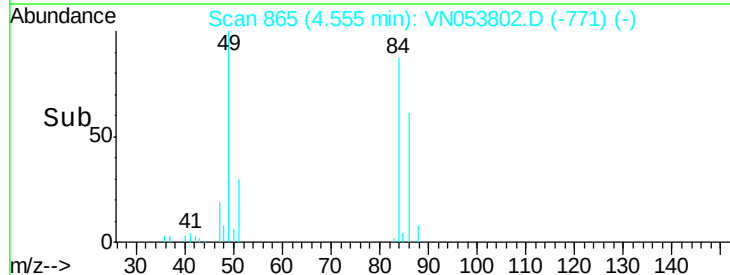
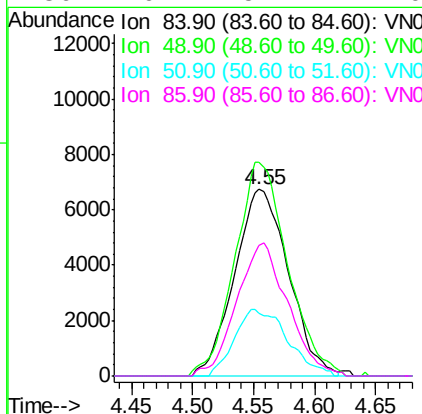
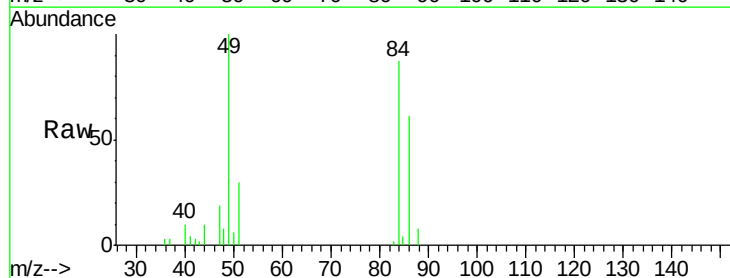
Instrument :
MSVOA_N
ClientSampled :

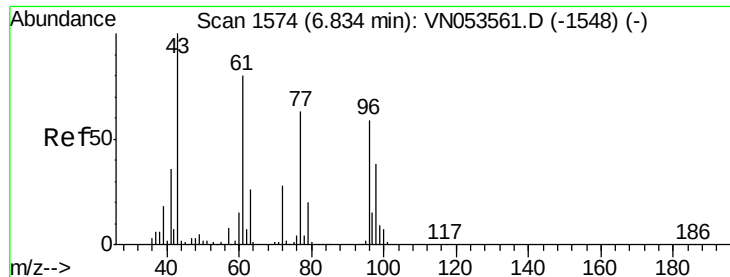
Tot Ion: 43 Resp: 4109
Ion Ratio Lower Upper
43 100
74 12.4 19.4 29.2#



#20
Methylene Chloride
Concen: 2.660 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053802.D
Acq: 15 Feb 2019 16:11

Tgt Ion: 84 Resp: 20670
Ion Ratio Lower Upper
84 100
49 114.7 94.3 141.5
51 33.9 29.4 44.2
86 70.1 51.4 77.0





#25

2-Butanone

Concen: 1.427 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.02 min

Lab File: VN053802.D

Acq: 15 Feb 2019 16:11

Instrument :

MSVOA_N

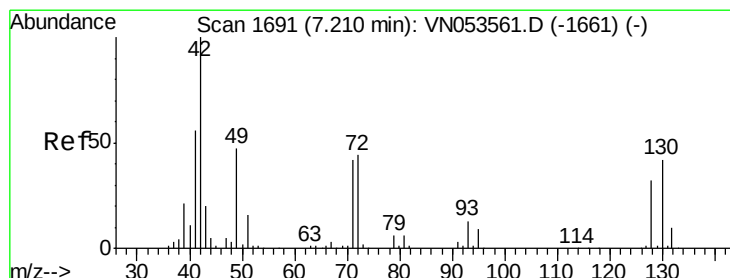
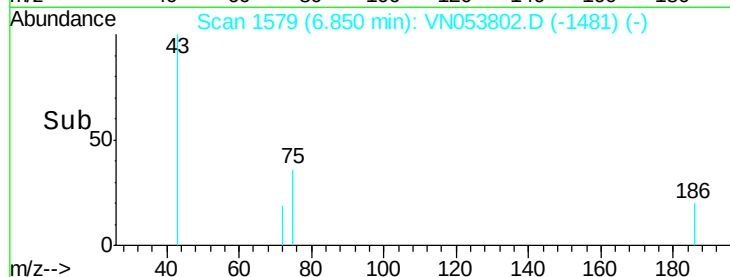
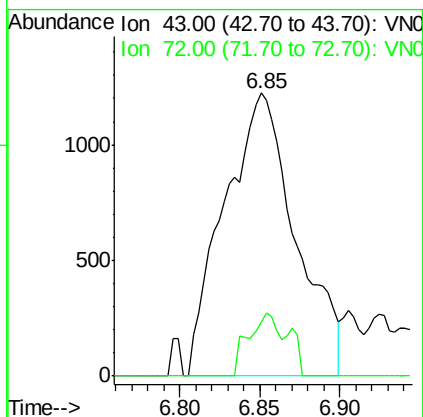
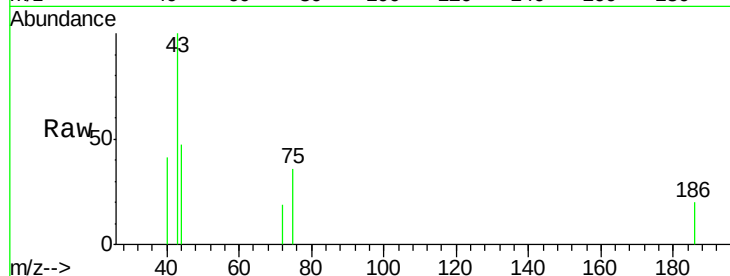
ClientSampled :

Tot Ion: 43 Resp: 3770

Ion Ratio Lower Upper

43 100

72 19.2 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.825 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN053802.D

Acq: 15 Feb 2019 16:11

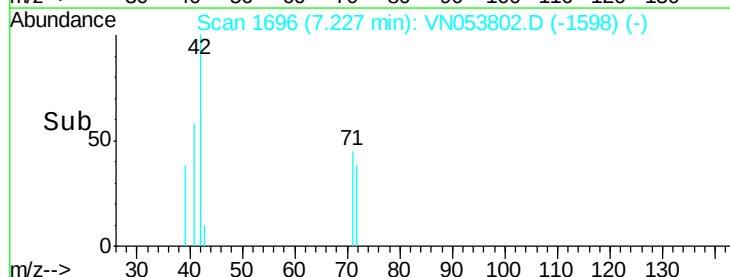
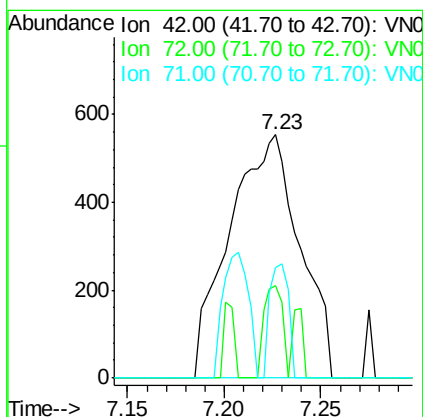
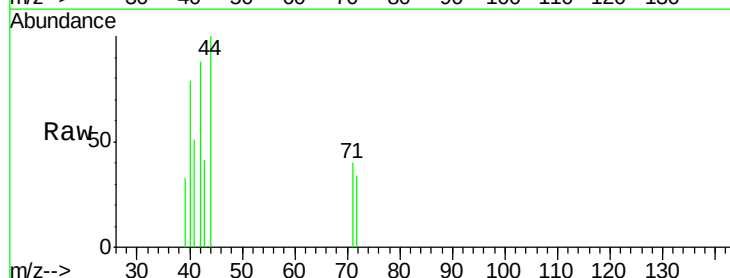
Tgt Ion: 42 Resp: 1399

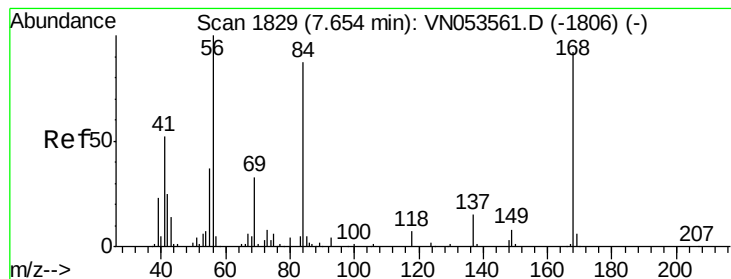
Ion Ratio Lower Upper

42 100

72 10.2 35.2 52.8#

71 12.5 33.0 49.4#





#31

Cyclohexane

Concen: 0.706 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053802.D

Acq: 15 Feb 2019 16:11

Instrument :

MSVOA_N

ClientSampled :

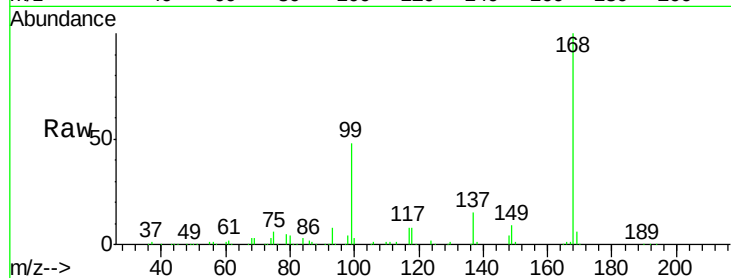
Tot Ion: 56 Resp: 10662

Ion Ratio Lower Upper

56 100

69 198.7 26.4 39.6#

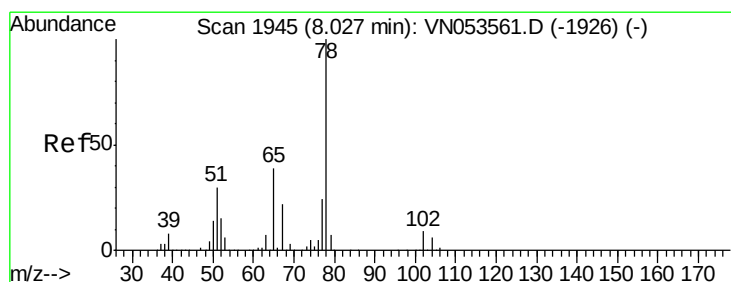
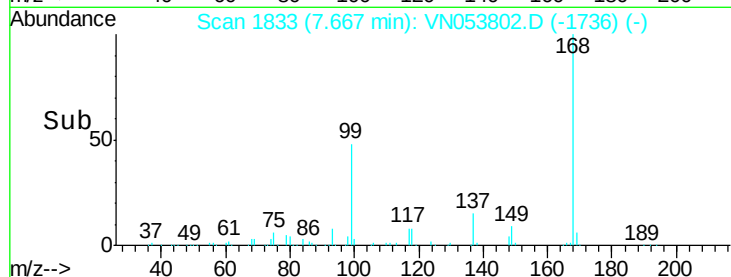
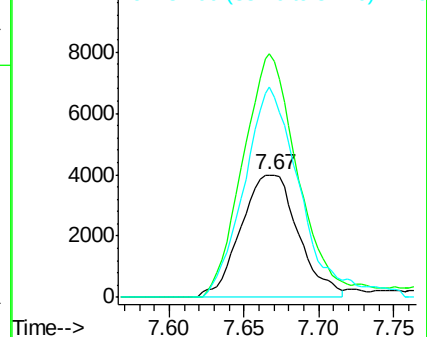
84 171.6 67.9 101.9#



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: 52.966 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053802.D

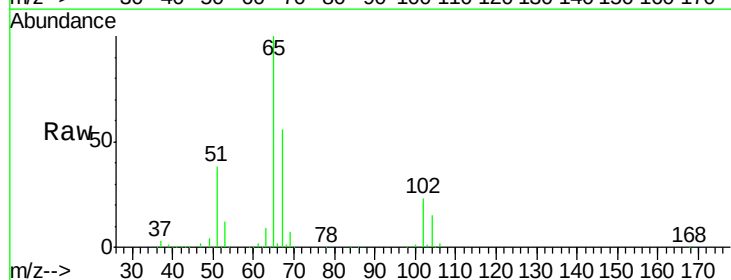
Acq: 15 Feb 2019 16:11

Tgt Ion: 65 Resp: 382504

Ion Ratio Lower Upper

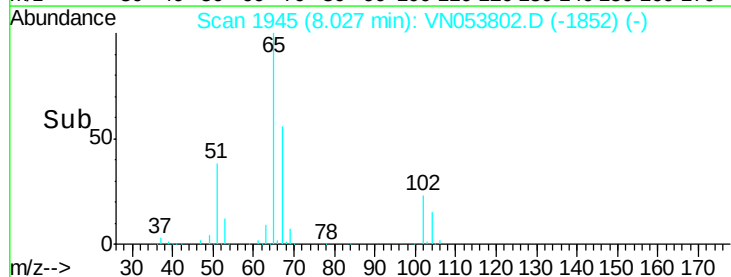
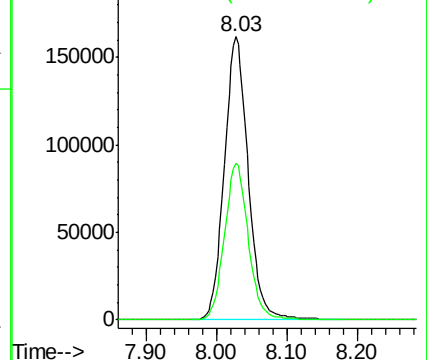
65 100

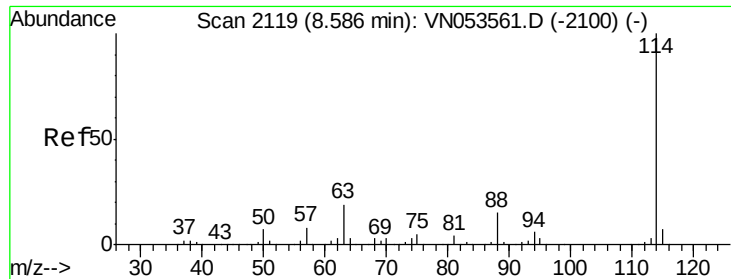
67 55.0 0.0 111.2



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: VN053802.D

Acq: 15 Feb 2019 16:11

Instrument :

MSVOA_N

ClientSampleId :

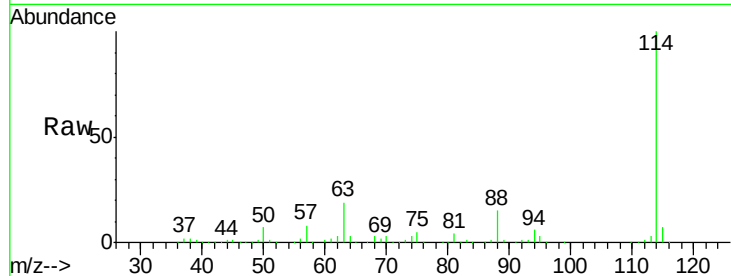
Tot Ion:114 Resp: 1174313

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.6

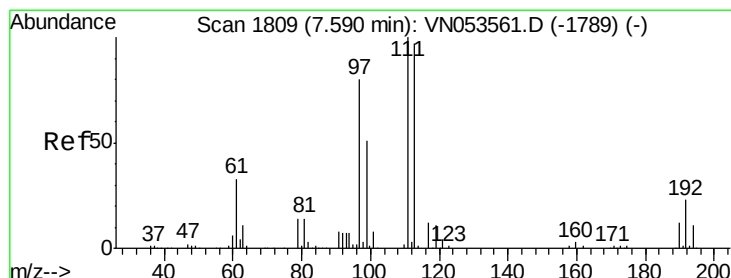
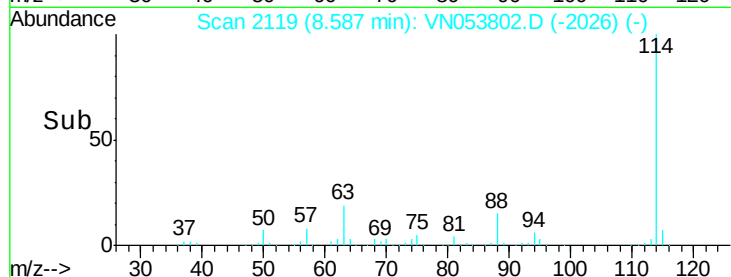
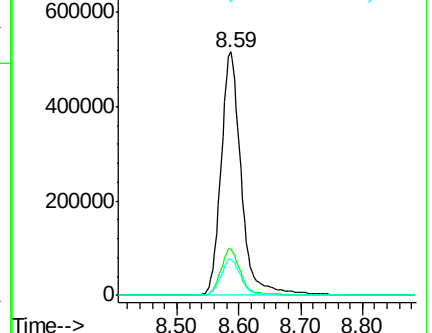
88 15.1 0.0 30.4



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: 51.995 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053802.D

Acq: 15 Feb 2019 16:11

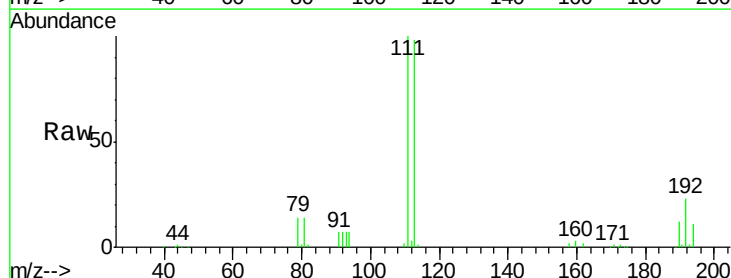
Tgt Ion:113 Resp: 385811

Ion Ratio Lower Upper

113 100

111 102.2 81.1 121.7

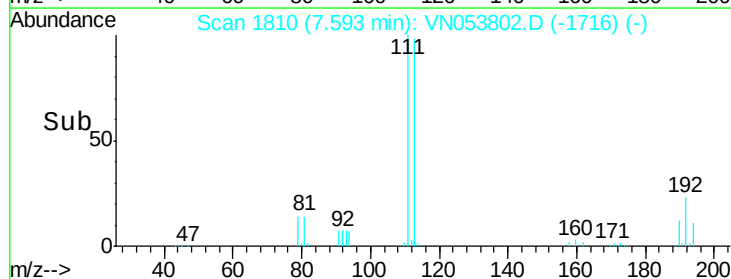
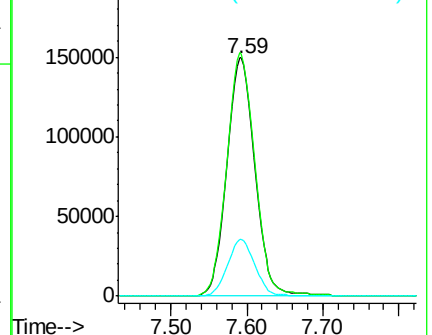
192 23.2 18.2 27.2

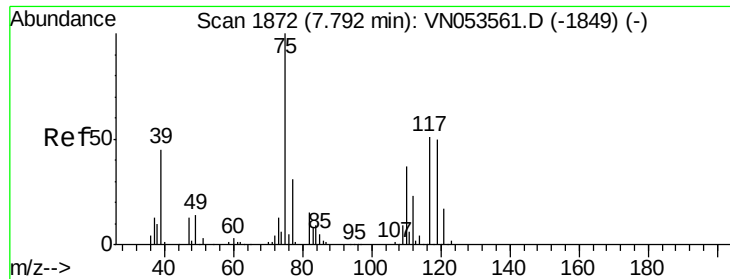


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

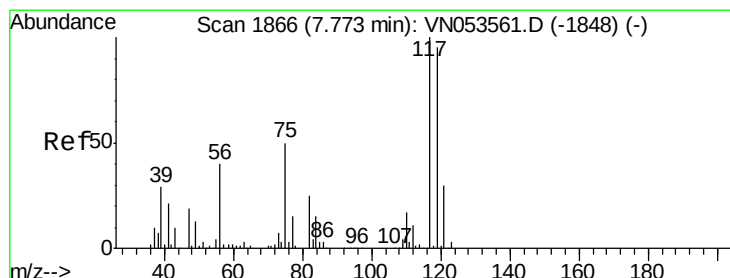
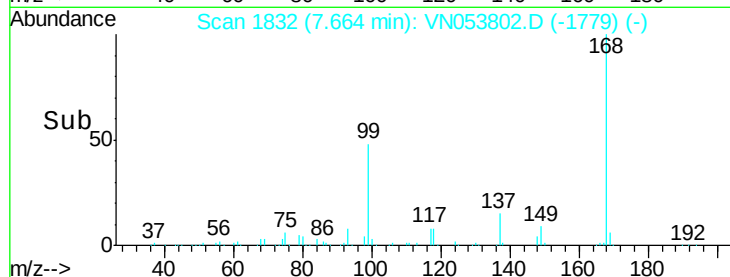
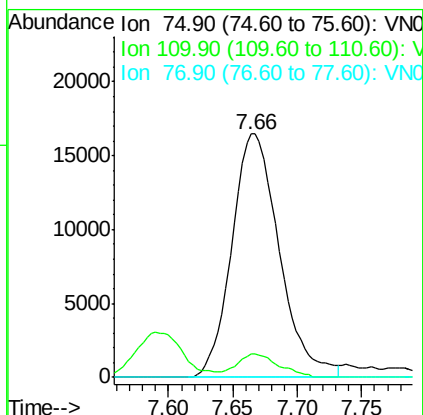
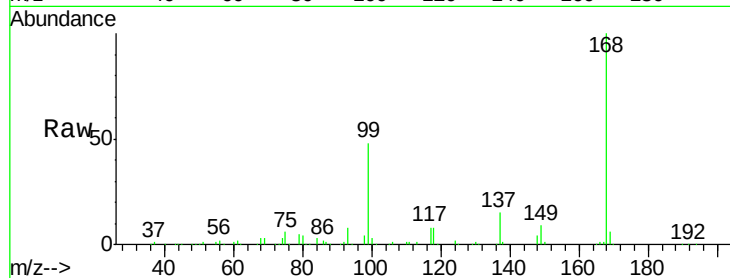




#36
 1,1-Dichloropropene
 Concen: 4.005 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053802.D
 Acq: 15 Feb 2019 16:11

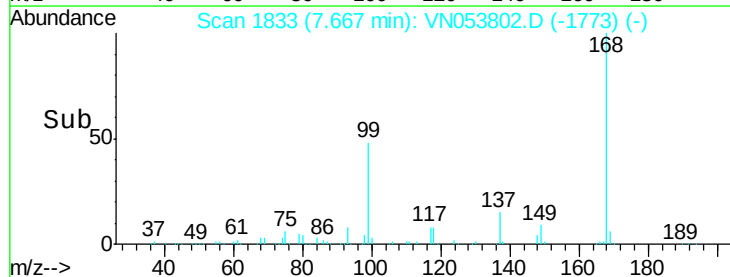
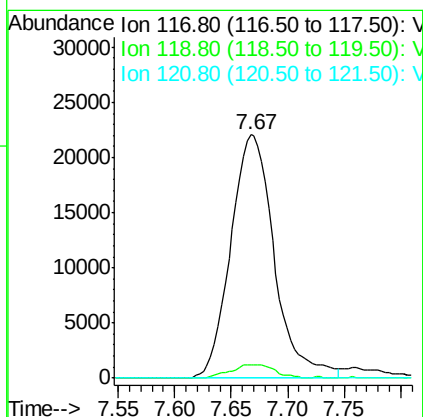
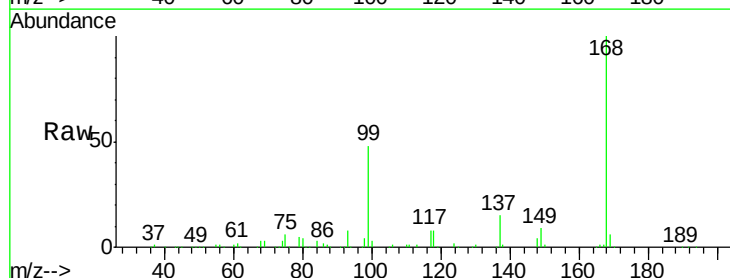
Instrument :
 MSVOA_N
 ClientSampled :

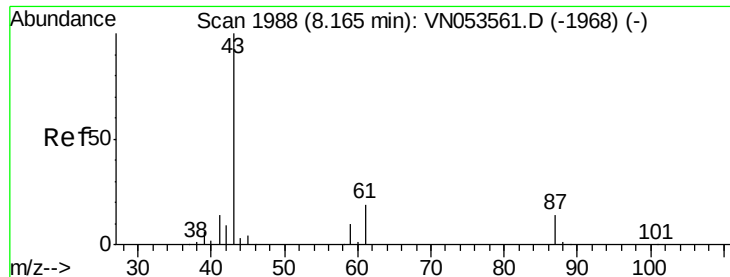
Tot Ion: 75 Resp: 42392
 Ion Ratio Lower Upper
 75 100
 110 8.5 18.1 54.3#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.543 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053802.D
 Acq: 15 Feb 2019 16:11

Tgt Ion: 117 Resp: 59105
 Ion Ratio Lower Upper
 117 100
 119 5.4 77.2 115.8#
 121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 2.034 ug/l

RT: 8.18 min Scan# 1992

Delta R.T. 0.01 min

Lab File: VN053802.D

Acq: 15 Feb 2019 16:11

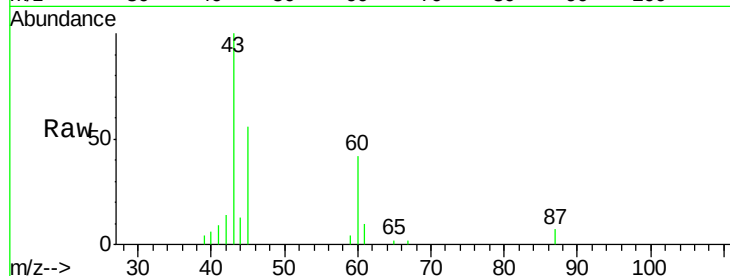
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 23219

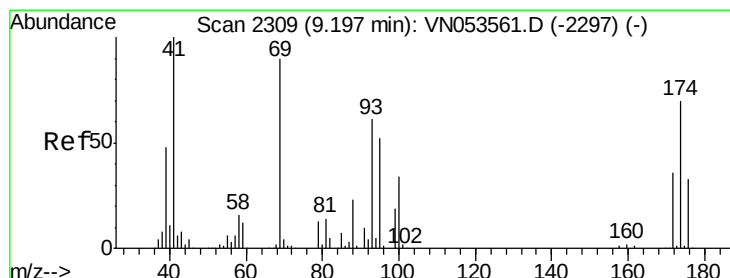
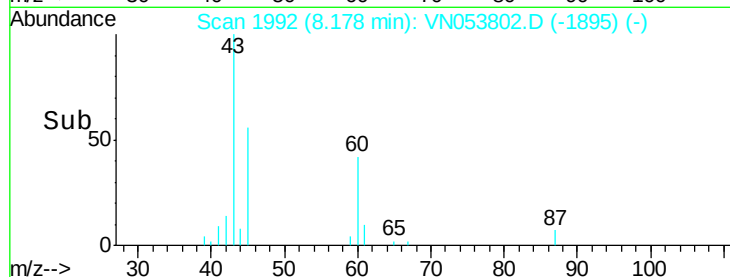
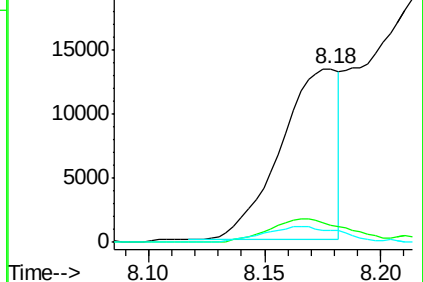
Ion	Ratio	Lower	Upper
43	100		
61	18.5	23.9	35.9#
87	12.6	11.0	16.6



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



#48

Methyl methacrylate

Concen: 1.369 ug/l

RT: 9.18 min Scan# 2304

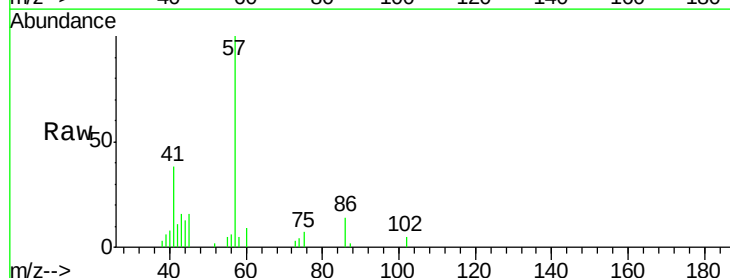
Delta R.T. -0.02 min

Lab File: VN053802.D

Acq: 15 Feb 2019 16:11

Tgt Ion: 41 Resp: 7463

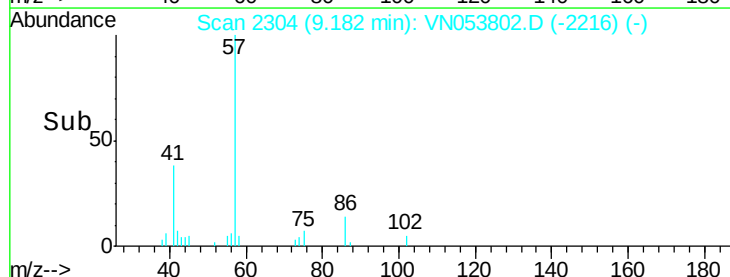
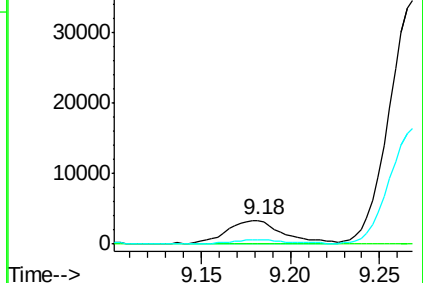
Ion	Ratio	Lower	Upper
41	100		
69	0.0	73.8	110.6#
39	16.1	40.0	60.0#

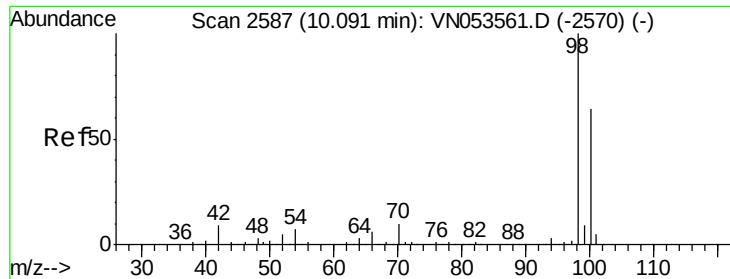


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0





#50

Toluene-d8

Concen: 49.484 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053802.D

Acq: 15 Feb 2019 16:11

Instrument :

MSVOA_N

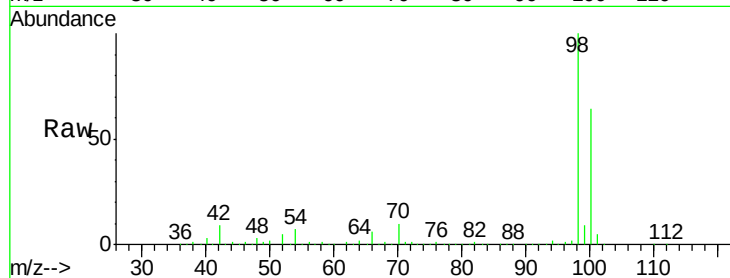
ClientSampled :

Tot Ion: 98 Resp: 1378672

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN053561.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN053561.D (-2570) (-)

10.09

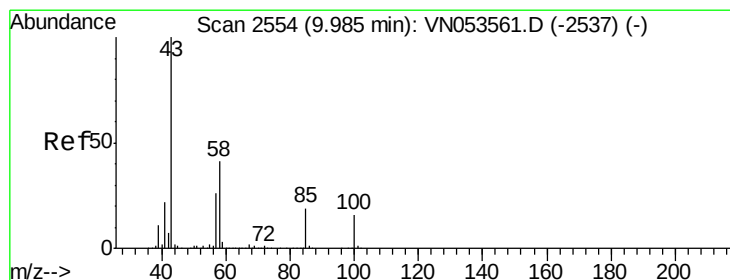
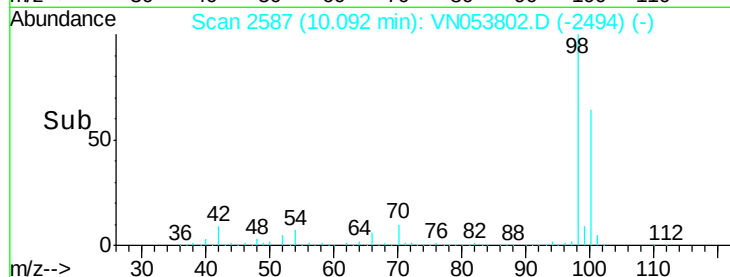
600000

400000

200000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.847 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053802.D

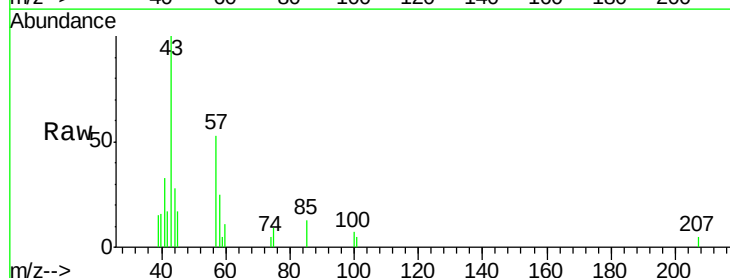
Acq: 15 Feb 2019 16:11

Tgt Ion: 43 Resp: 4750

Ion Ratio Lower Upper

43 100

58 38.8 32.8 49.2



Abundance Ion 43.00 (42.70 to 43.70): VN053561.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN053561.D (-2537) (-)

9.99

4000

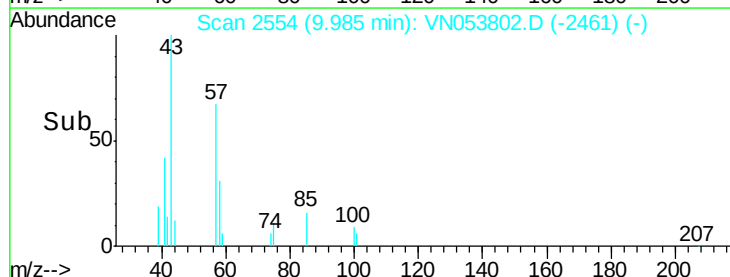
3000

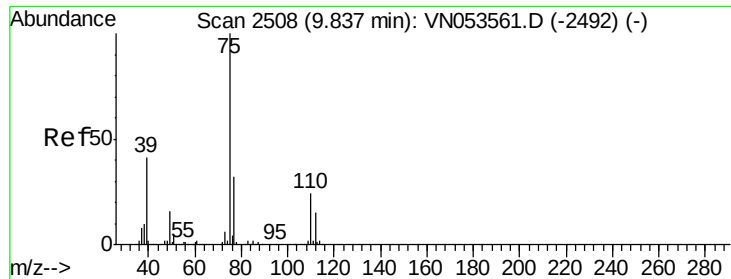
2000

1000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 4.424 ug/l

RT: 9.91 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053802.D

Acq: 15 Feb 2019 16:11

Instrument :

MSVOA_N

ClientSampleId :

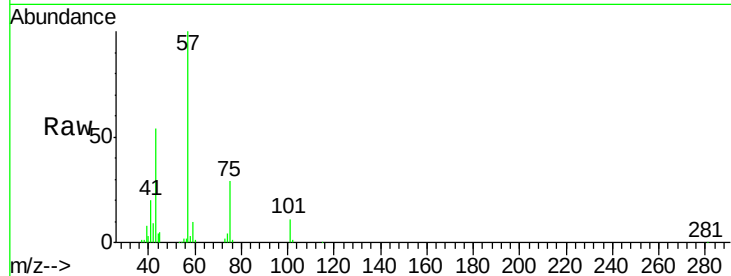
Tot Ion: 75 Resp: 54935

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

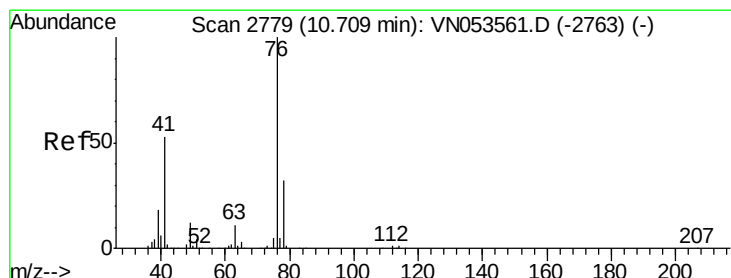
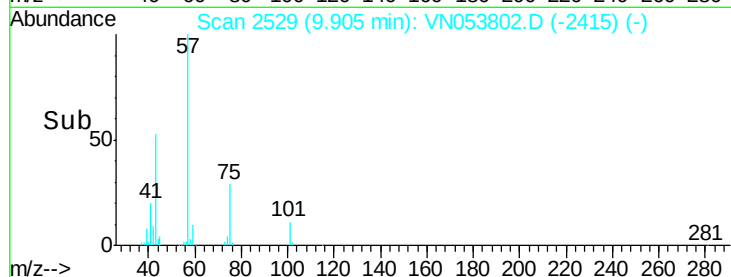
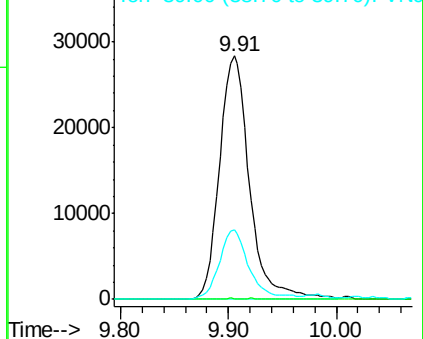
39 28.7 33.4 50.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 0.549 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053802.D

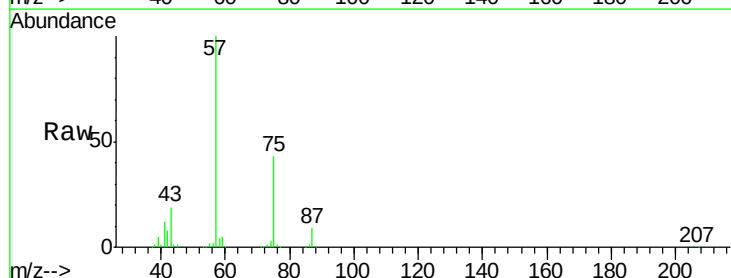
Acq: 15 Feb 2019 16:11

Tgt Ion: 76 Resp: 6554

Ion Ratio Lower Upper

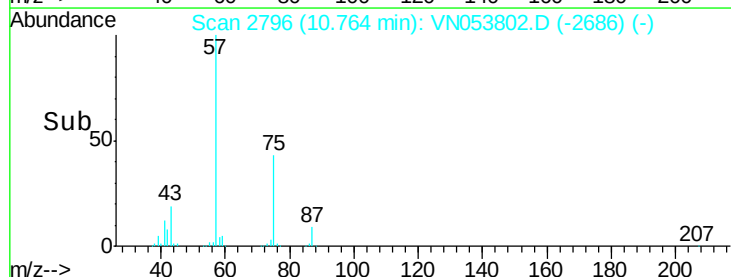
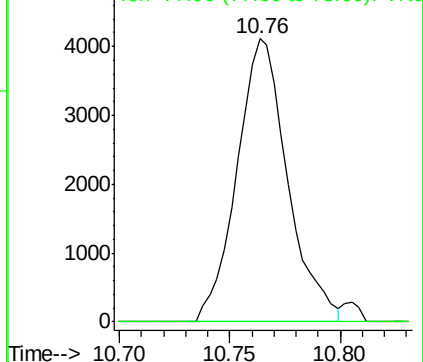
76 100

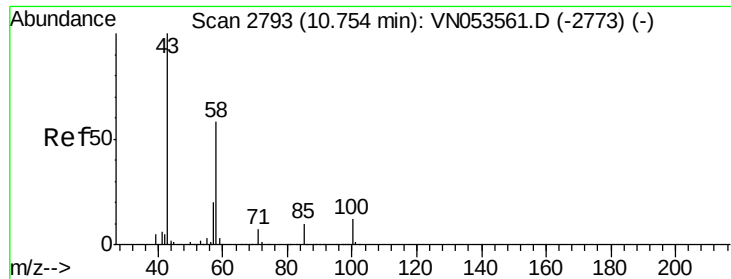
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

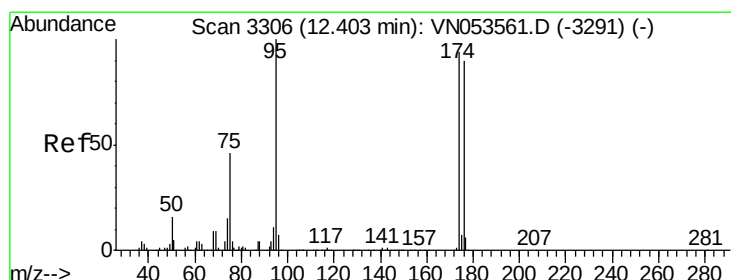
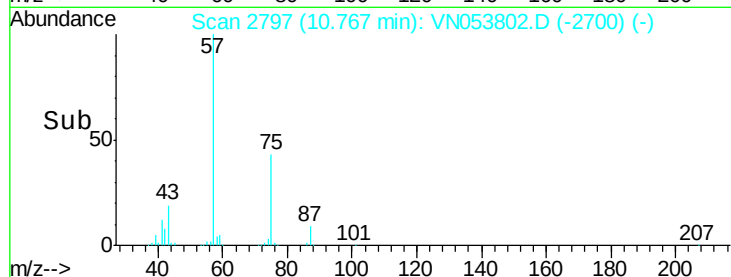
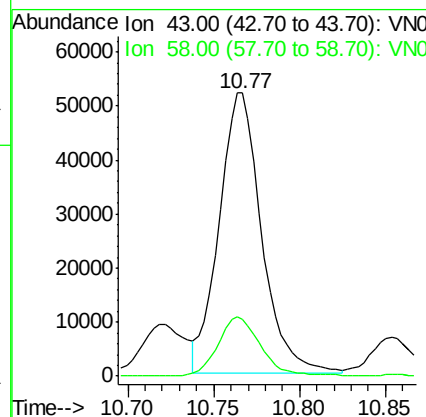
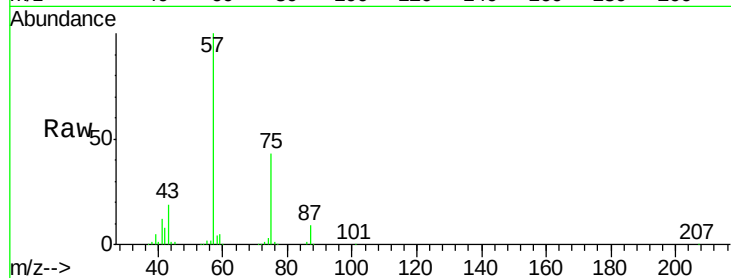




#59
2-Hexanone
Concen: 23.554 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN053802.D
Acq: 15 Feb 2019 16:11

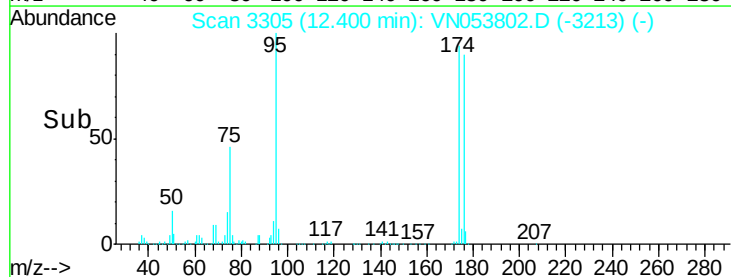
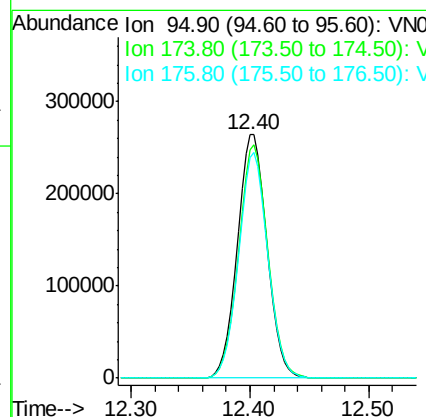
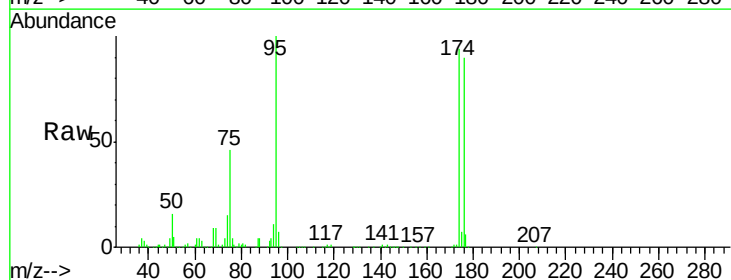
Instrument :
MSVOA_N
ClientSampled :

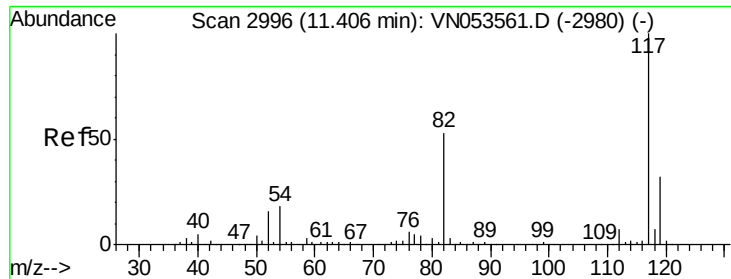
Tot Ion: 43 Resp: 89714
Ion Ratio Lower Upper
43 100
58 21.0 28.6 85.8#



#62
4-Bromofluorobenzene
Concen: 48.972 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053802.D
Acq: 15 Feb 2019 16:11

Tgt Ion: 95 Resp: 455058
Ion Ratio Lower Upper
95 100
174 94.8 0.0 183.2
176 91.3 0.0 177.4

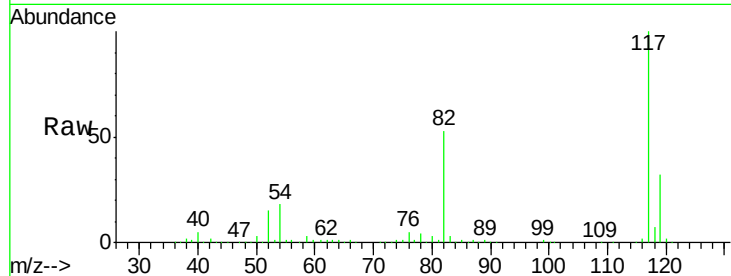




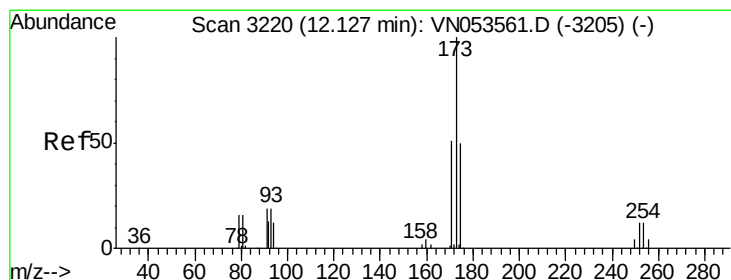
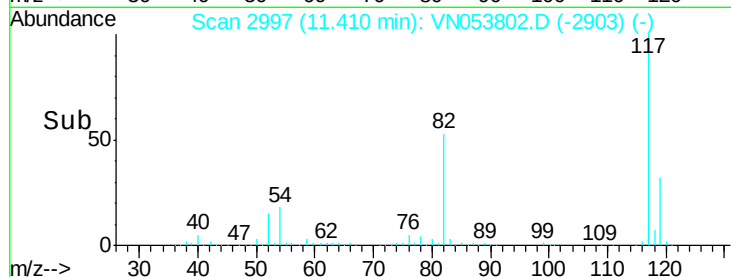
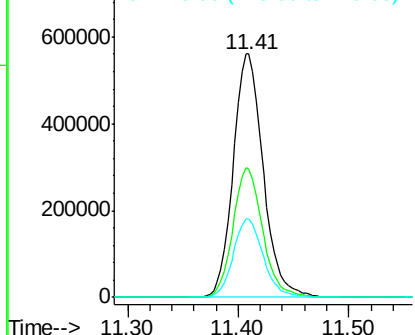
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN053802.D
Acq: 15 Feb 2019 16:11

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 1057129
Ion Ratio Lower Upper
117 100
82 52.7 42.9 64.3
119 32.4 26.0 39.0

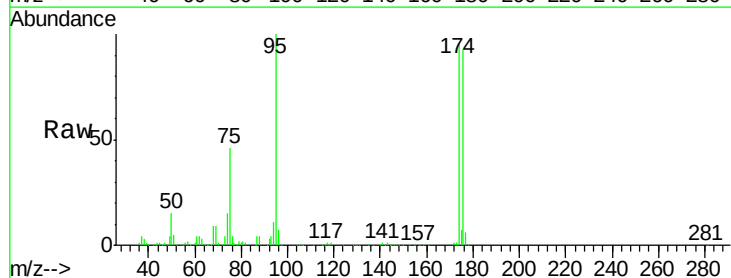


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

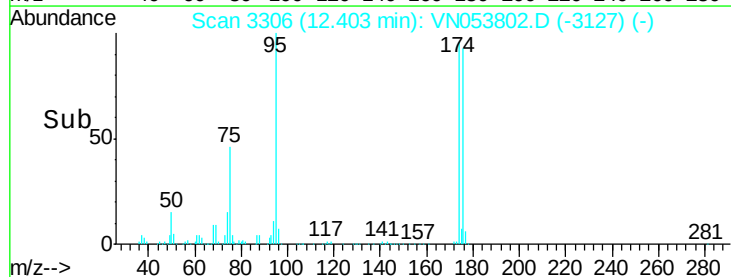
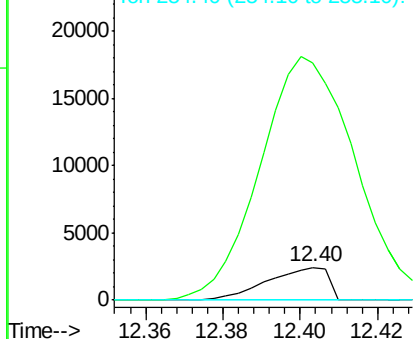


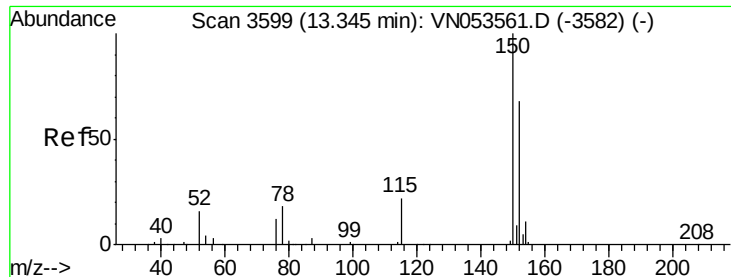
#71
Bromoform
Concen: 0.500 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053802.D
Acq: 15 Feb 2019 16:11

Tgt Ion:173 Resp: 2690
Ion Ratio Lower Upper
173 100
175 990.3 24.6 74.0#
254 0.0 0.2 0.2#



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



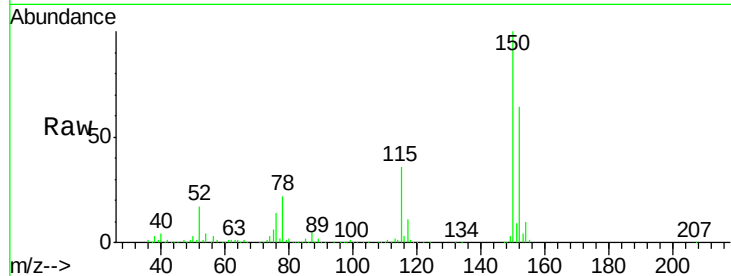


#72

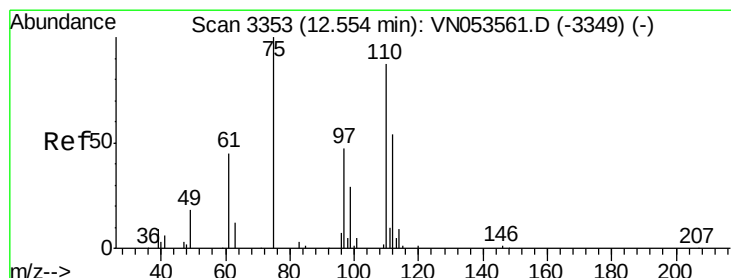
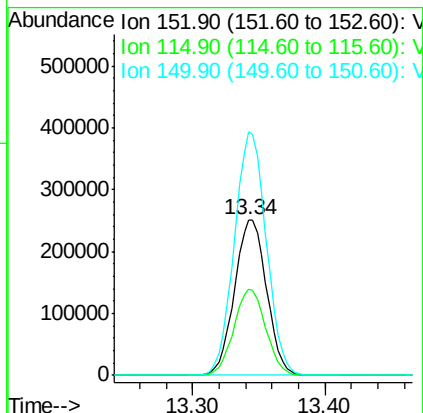
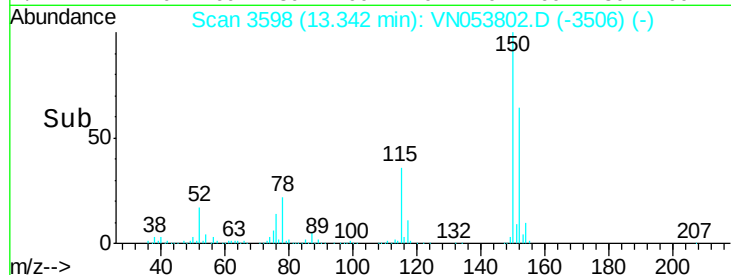
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN053802.D
Acq: 15 Feb 2019 16:11

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.1	27.8	83.4
150	156.0	0.0	349.0



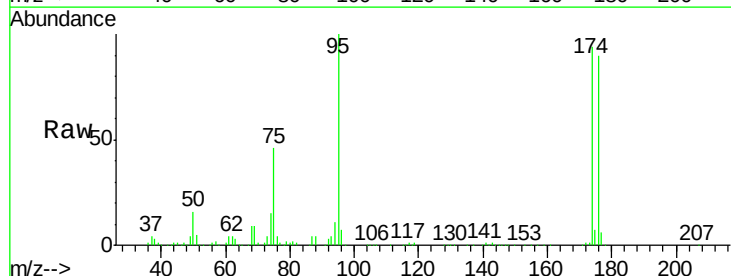
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



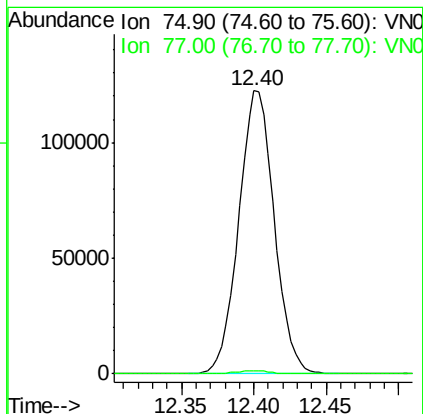
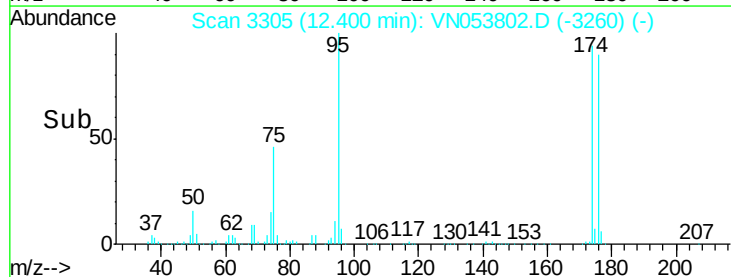
#76

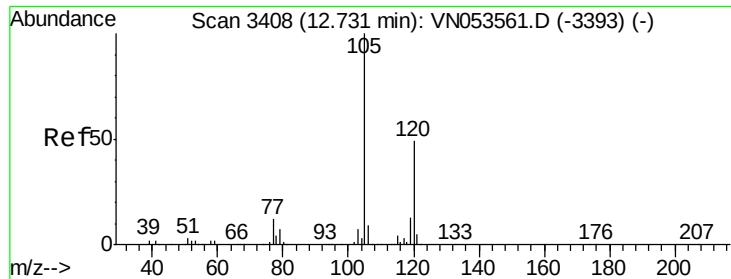
1,2,3-Trichloropropane
Concen: 38.498 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN053802.D
Acq: 15 Feb 2019 16:11

Tgt 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: 0.297 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053802.D

Acq: 15 Feb 2019 16:11

Instrument :

MSVOA_N

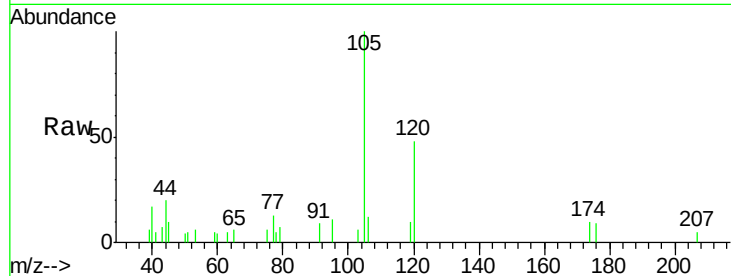
ClientSampleId :

Tot Ion:105 Resp: 7304

Ion Ratio Lower Upper

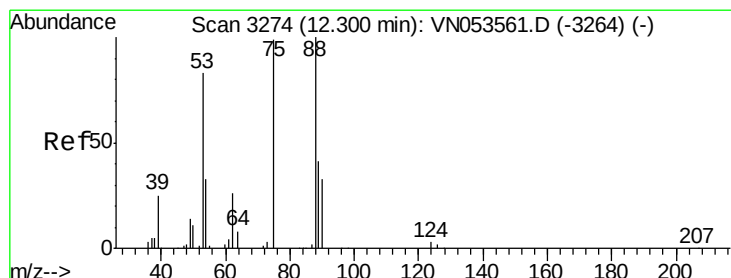
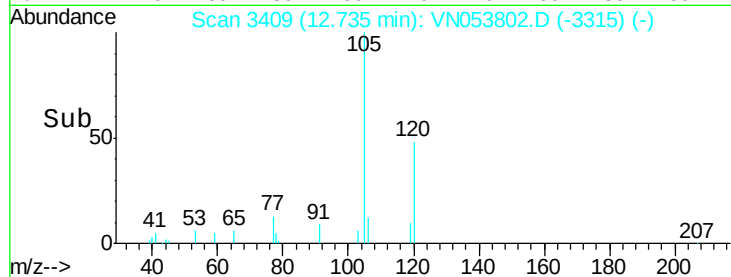
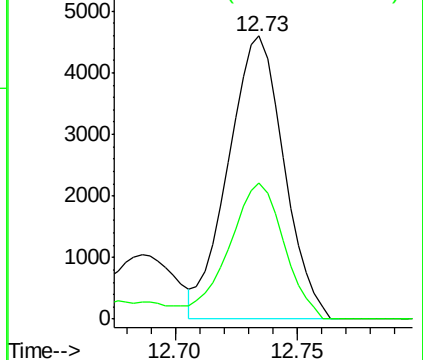
105 100

120 47.7 24.9 74.6



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: 108.254 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053802.D

Acq: 15 Feb 2019 16:11

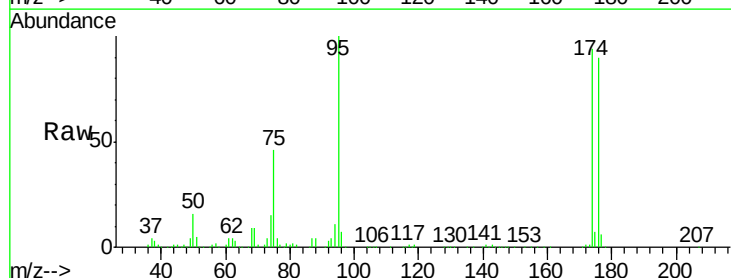
Tgt Ion: 75 Resp: 208356

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

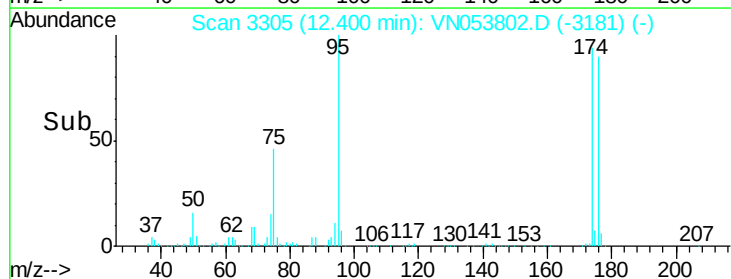
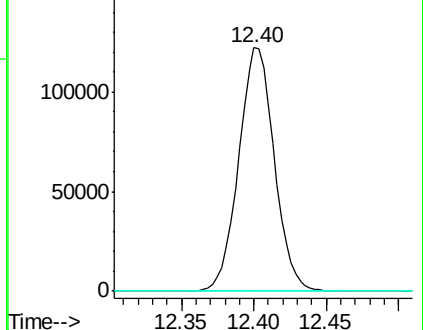
89 0.0 35.6 53.4#

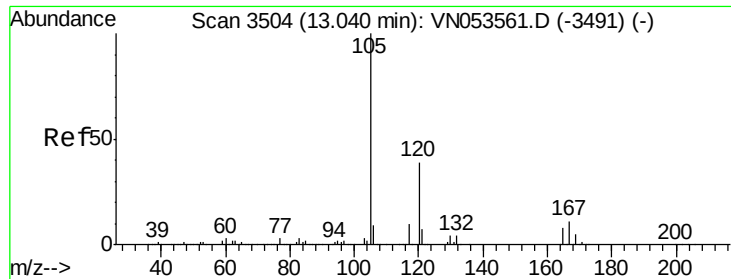


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#84

1,2,4-Trimethylbenzene

Concen: 0.288 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. 0.00 min

Lab File: VN053802.D

Acq: 15 Feb 2019 16:11

Instrument :

MSVOA_N

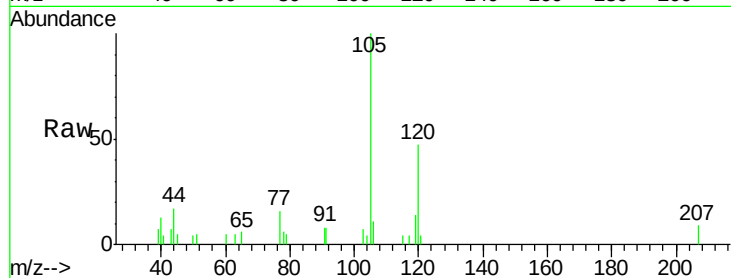
ClientSampleId :

Tot Ion:105 Resp: 7202

Ion Ratio Lower Upper

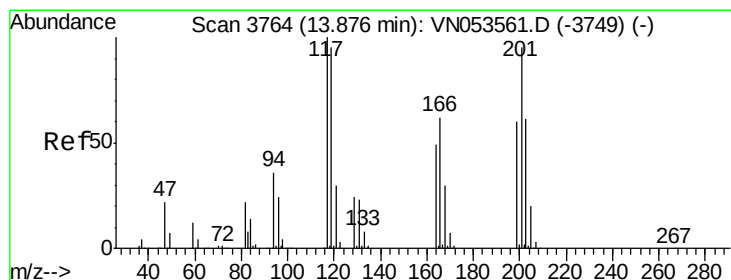
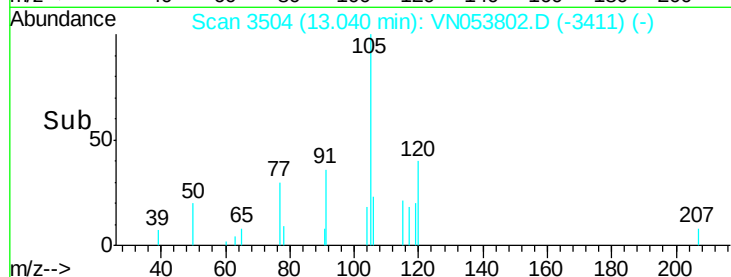
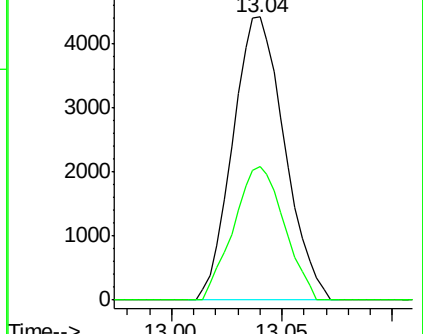
105 100

120 46.0 23.0 69.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#90

Hexachloroethane

Concen: 0.215 ug/l

RT: 13.90 min Scan# 3770

Delta R.T. 0.02 min

Lab File: VN053802.D

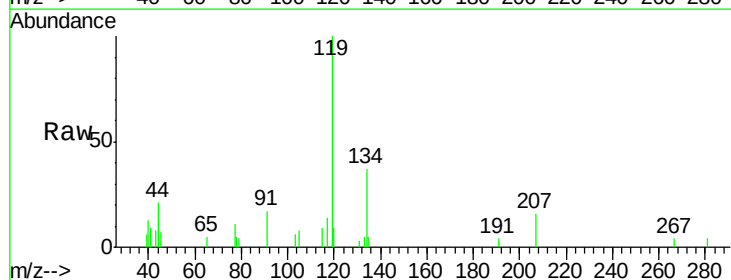
Acq: 15 Feb 2019 16:11

Tgt Ion:117 Resp: 916

Ion Ratio Lower Upper

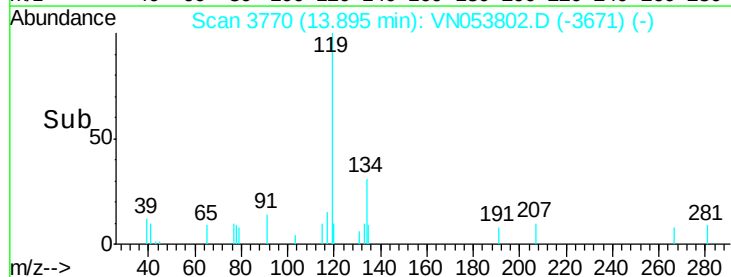
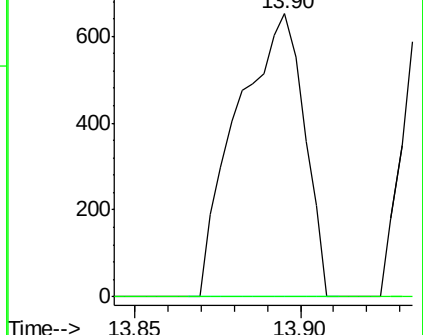
117 100

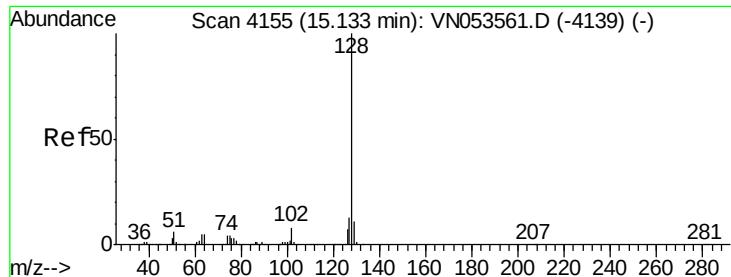
201 0.0 46.8 140.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

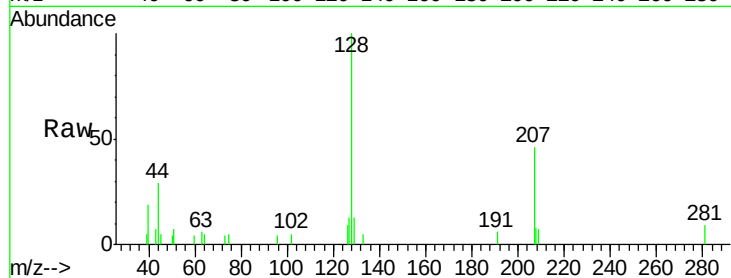




#95
 Naphthalene
 Concen: 2.107 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN053802.D
 Acq: 15 Feb 2019 16:11

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:128 Resp: 7109
 Ion Ratio Lower Upper
 128 100
 127 10.0 10.3 15.5#
 129 12.0 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V

