

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021519\
 Data File : VN053809.D
 Acq On : 15 Feb 2019 19:19
 Operator : JC/SP
 Sample : PB117124TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Feb 15 23:27:45 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	665420	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1109506	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1143121	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	445823	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	354084	53.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.08%	
35) Dibromofluoromethane	7.59	113	352920	50.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.68%	
50) Toluene-d8	10.09	98	1403981	53.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.68%	
62) 4-Bromofluorobenzene	12.40	95	484844	55.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.46%	

Target Compounds

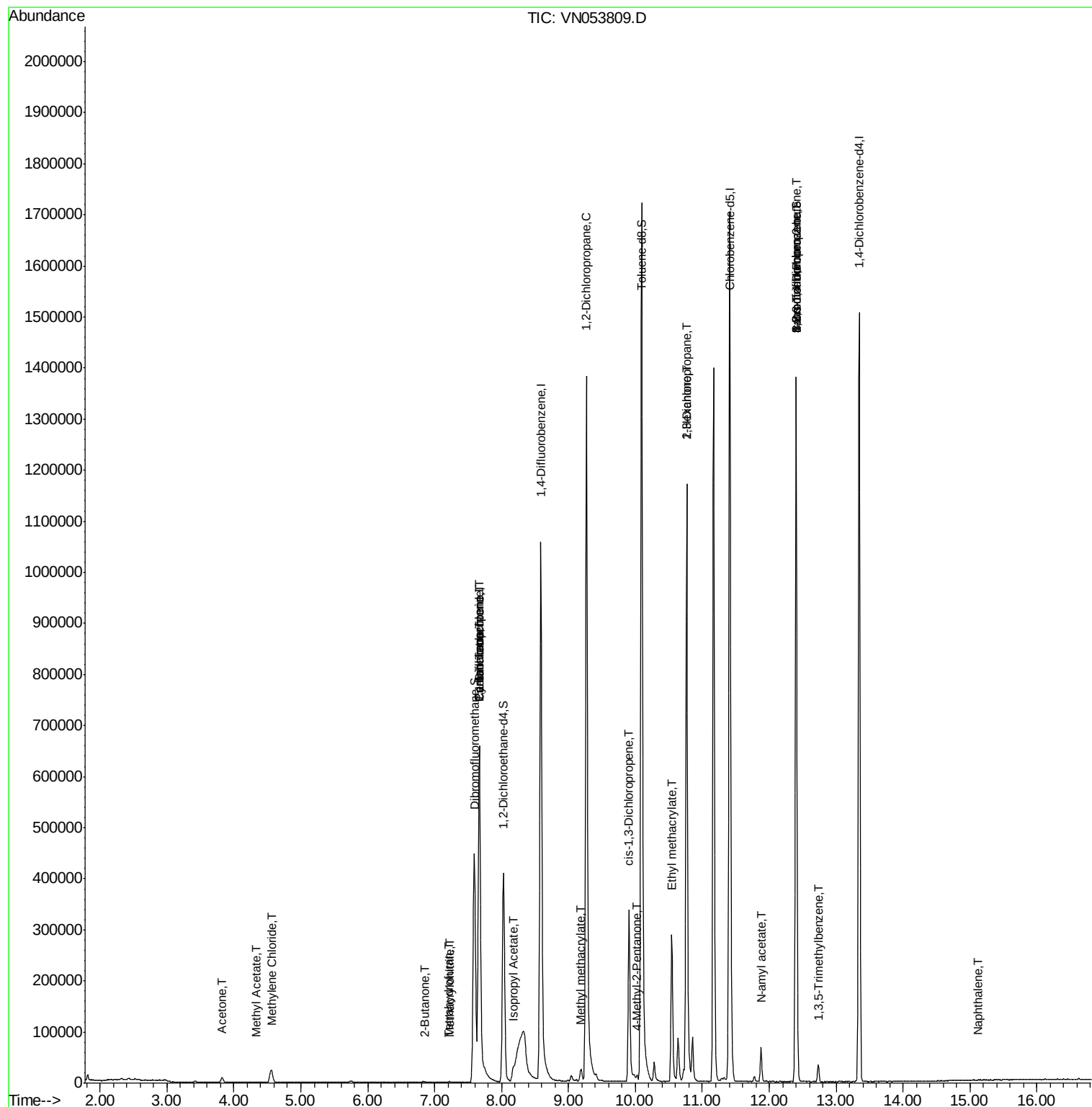
						Qvalue
16) Acetone	3.82	43	16590	9.689	ug/l	96
18) Methyl Acetate	4.34	43	3125	0.616	ug/l #	71
20) Methylene Chloride	4.56	84	20001	2.784	ug/l	96
25) 2-Butanone	6.85	43	3240	1.327	ug/l	99
29) Tetrahydrofuran	7.21	42	480	0.306	ug/l #	60
31) Cyclohexane	7.67	56	9184	0.646	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	39562	3.956	ug/l #	48
38) Carbon Tetrachloride	7.67	117	52308	5.192	ug/l #	16
41) Methacrylonitrile	7.22	41	951	0.305	ug/l #	22
43) Isopropyl Acetate	8.17	43	34123	3.163	ug/l #	78
45) 1,2-Dichloropropane	9.26	63	1877	0.238	ug/l #	43
48) Methyl methacrylate	9.18	41	9316	1.809	ug/l #	12
51) 4-Methyl-2-Pentanone	10.03	43	8366	1.578	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	72534	6.182	ug/l #	63
56) Ethyl methacrylate	10.54	69	1605	0.206	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	13827	1.227	ug/l #	43
59) 2-Hexanone	10.77	43	174196	48.405	ug/l #	51
71) Bromoform	12.41	173	3535	0.608	ug/l #	1
74) N-amyl acetate	11.88	43	20524	2.723	ug/l #	50
76) 1,2,3-Trichloropropane	12.40	75	223908	39.102	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	17701	0.681	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	223908	109.950	ug/l #	15
95) Naphthalene	15.13	128	496	1.761	ug/l #	69

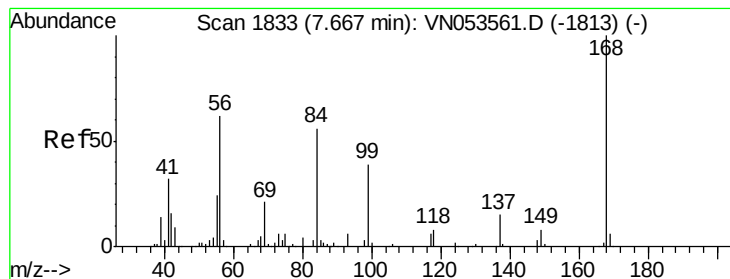
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN021519\
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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: VN053809.D

Acq: 15 Feb 2019 19:19

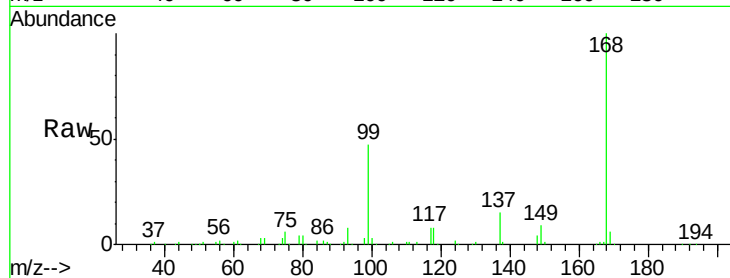
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 665420

Ion Ratio Lower Upper

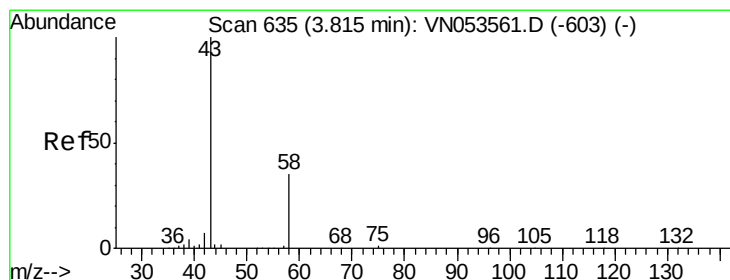
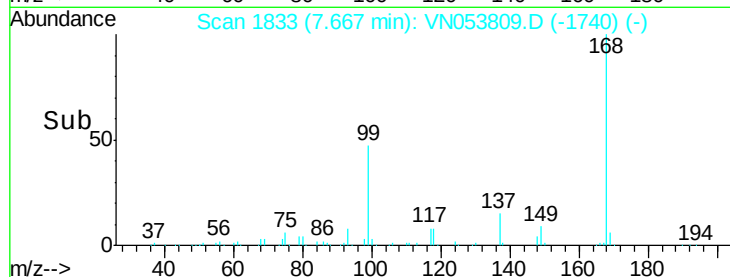
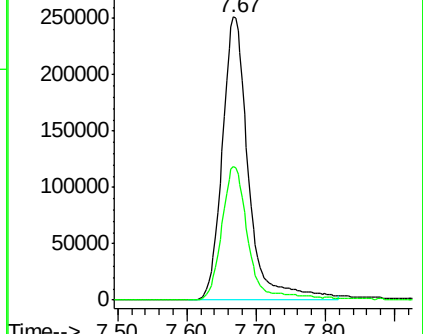
168 100

99 47.4 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 9.689 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN053809.D

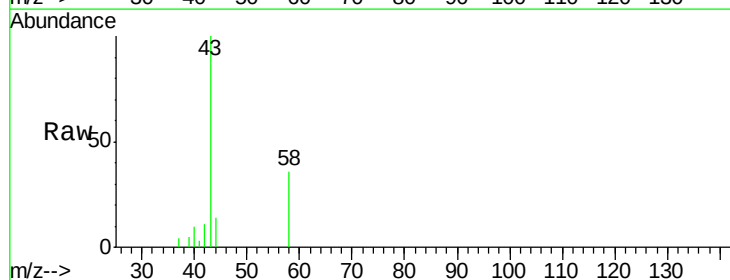
Acq: 15 Feb 2019 19:19

Tgt Ion: 43 Resp: 16590

Ion Ratio Lower Upper

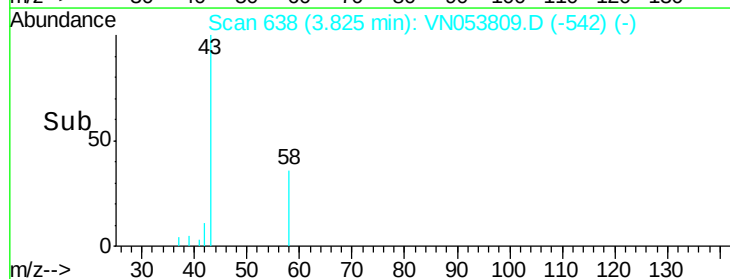
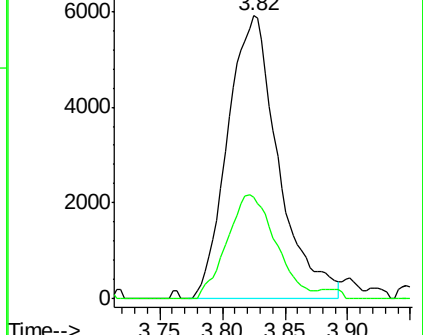
43 100

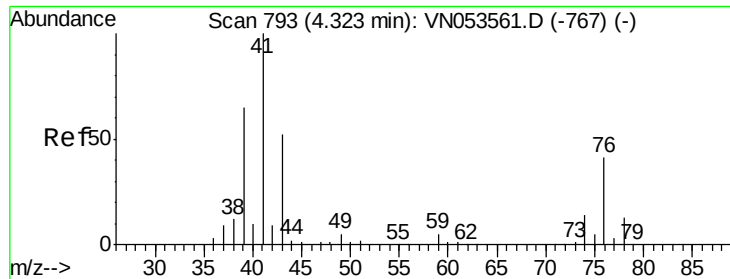
58 36.1 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

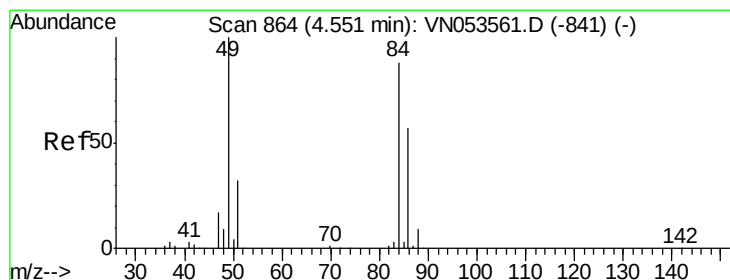
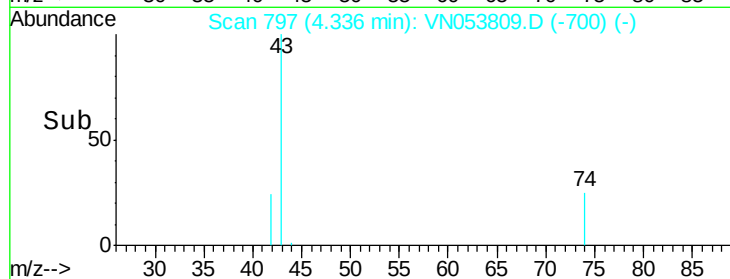
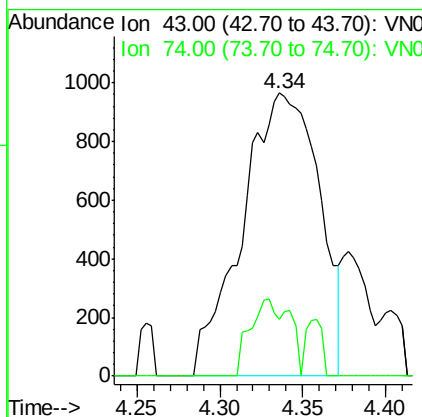
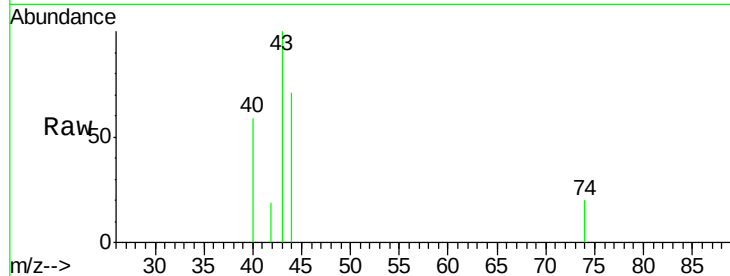




#18
Methyl Acetate
Concen: 0.616 ug/l
RT: 4.34 min Scan# 797
Delta R.T. 0.01 min
Lab File: VN053809.D
Acq: 15 Feb 2019 19:19

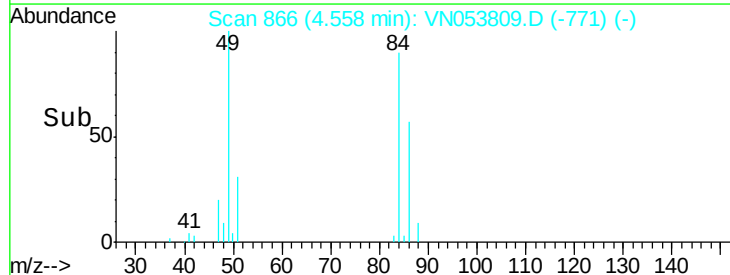
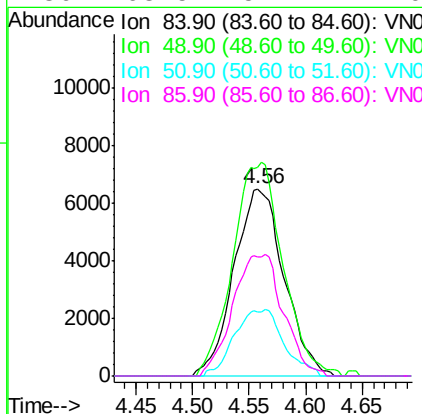
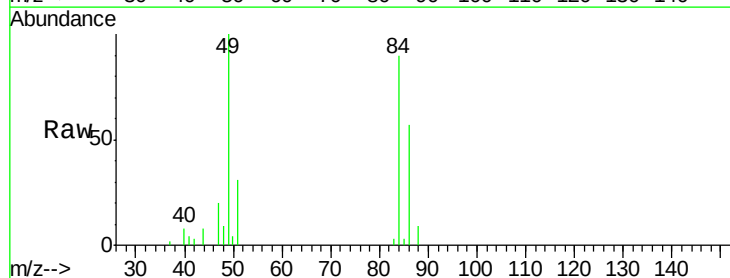
Instrument :
MSVOA_N
ClientSampled :

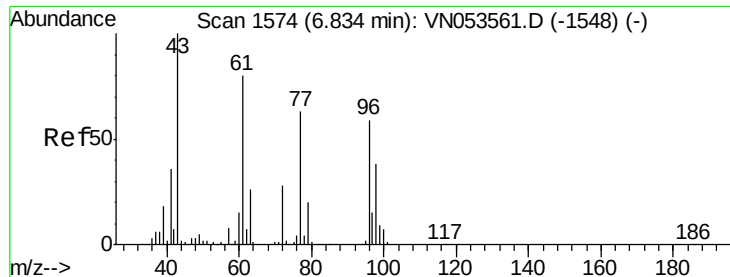
Tot Ion: 43 Resp: 3125
Ion Ratio Lower Upper
43 100
74 9.9 19.4 29.2#



#20
Methylene Chloride
Concen: 2.784 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053809.D
Acq: 15 Feb 2019 19:19

Tgt Ion: 84 Resp: 20001
Ion Ratio Lower Upper
84 100
49 111.3 94.3 141.5
51 34.3 29.4 44.2
86 63.5 51.4 77.0

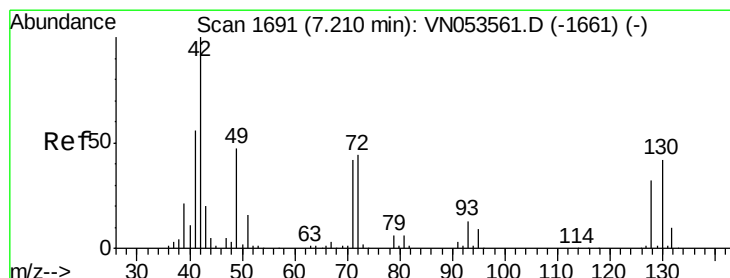
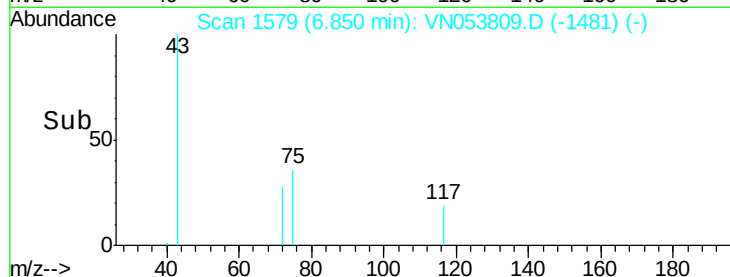
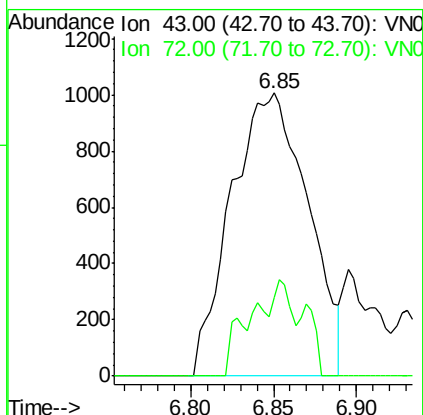
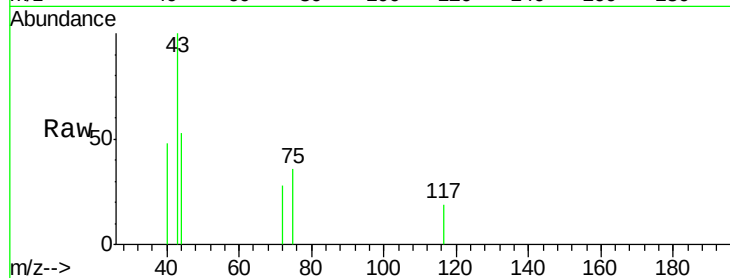




#25
2-Butanone
Concen: 1.327 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.02 min
Lab File: VN053809.D
Acq: 15 Feb 2019 19:19

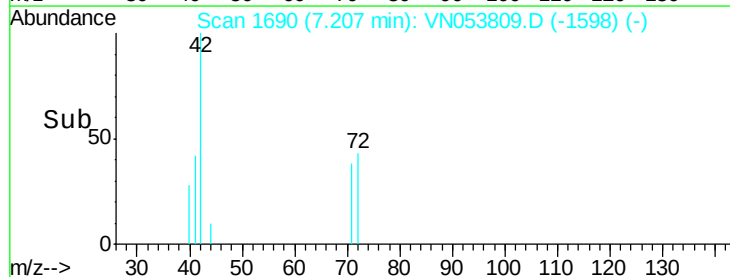
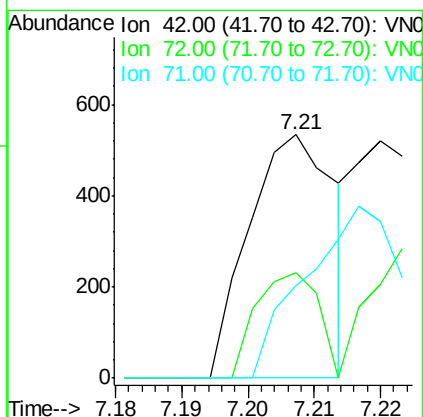
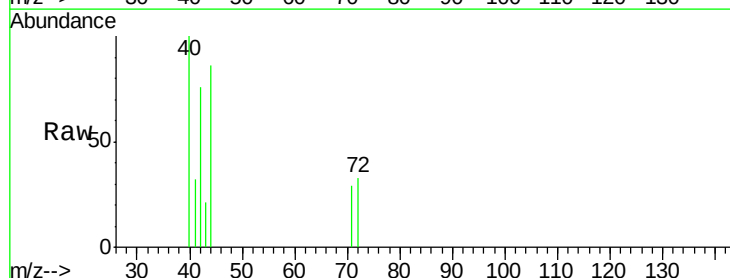
Instrument :
MSVOA_N
ClientSampled :

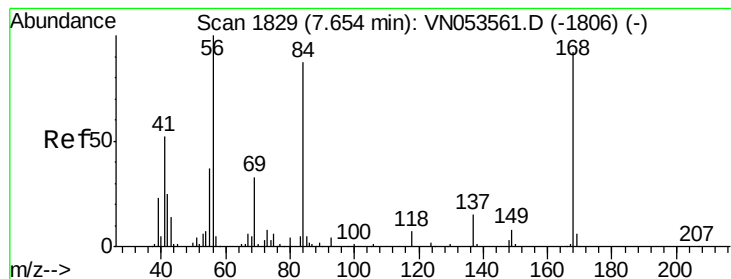
Tot Ion: 43 Resp: 3240
Ion Ratio Lower Upper
43 100
72 27.8 22.0 33.0



#29
Tetrahydrofuran
Concen: 0.306 ug/l
RT: 7.21 min Scan# 1690
Delta R.T. -0.00 min
Lab File: VN053809.D
Acq: 15 Feb 2019 19:19

Tgt Ion: 42 Resp: 480
Ion Ratio Lower Upper
42 100
72 31.5 35.2 52.8#
71 80.0 33.0 49.4#





#31

Cyclohexane

Concen: 0.646 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.02 min

Lab File: VN053809.D

Acq: 15 Feb 2019 19:19

Instrument :

MSVOA_N

ClientSampled :

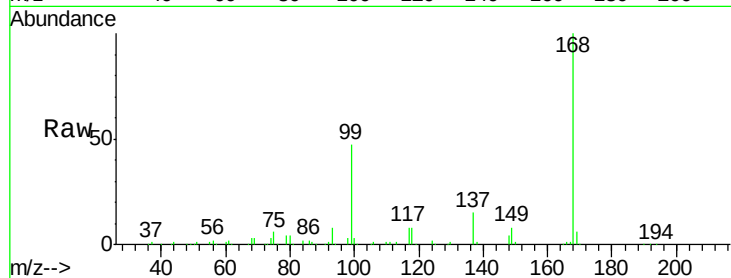
Tot Ion: 56 Resp: 9184

Ion Ratio Lower Upper

56 100

69 177.4 26.4 39.6#

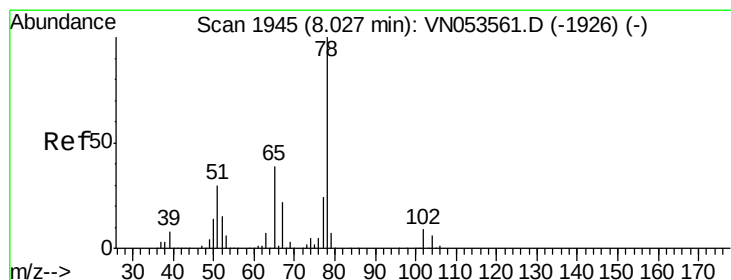
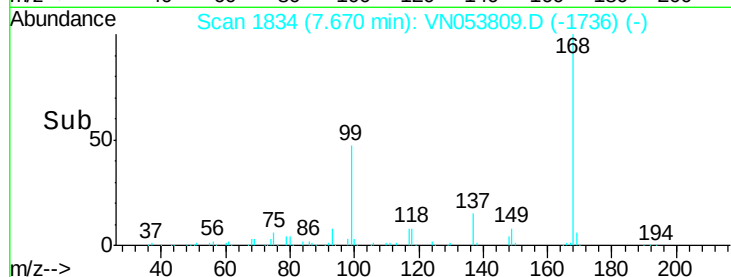
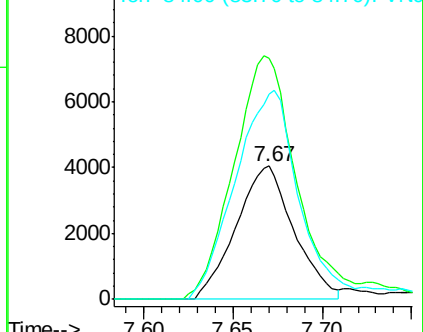
84 153.8 67.9 101.9#



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: 53.043 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN053809.D

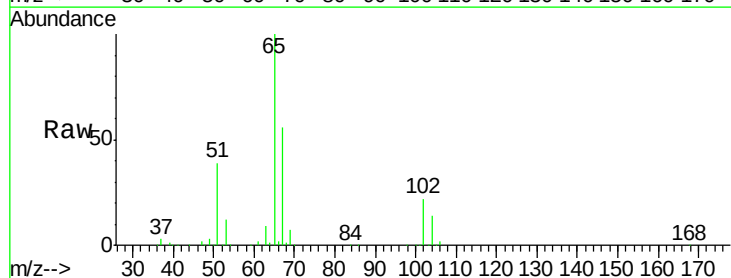
Acq: 15 Feb 2019 19:19

Tgt Ion: 65 Resp: 354084

Ion Ratio Lower Upper

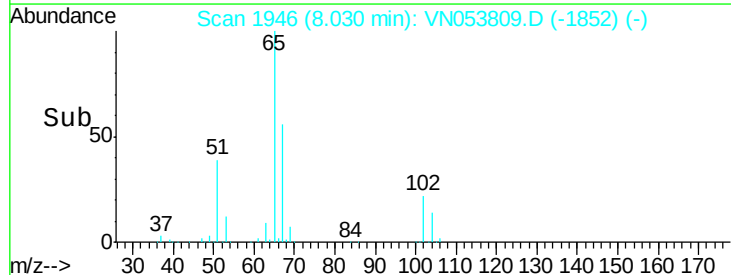
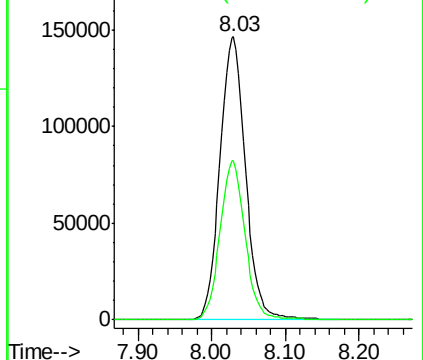
65 100

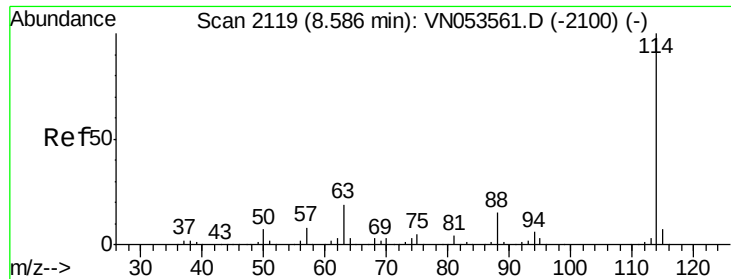
67 55.1 0.0 111.2



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: VN053809.D

Acq: 15 Feb 2019 19:19

Instrument :

MSVOA_N

ClientSampleId :

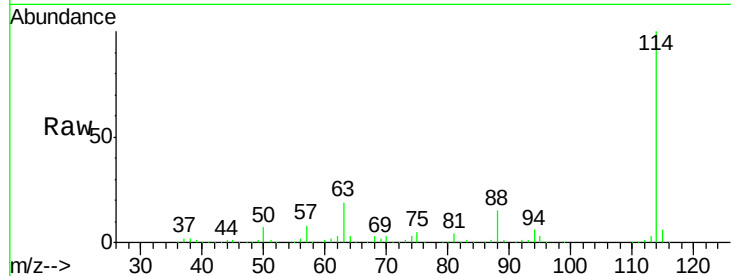
Tot Ion:114 Resp: 1109506

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.6

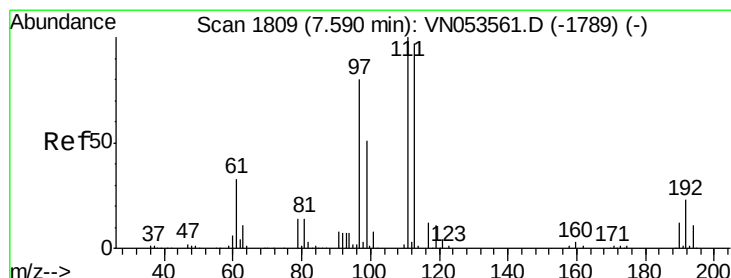
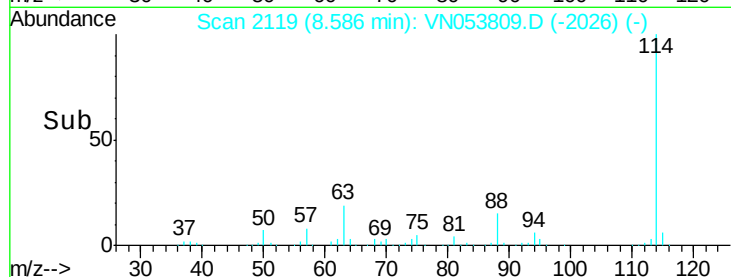
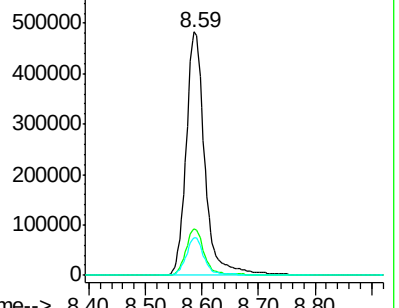
88 15.3 0.0 30.4



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: 50.341 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053809.D

Acq: 15 Feb 2019 19:19

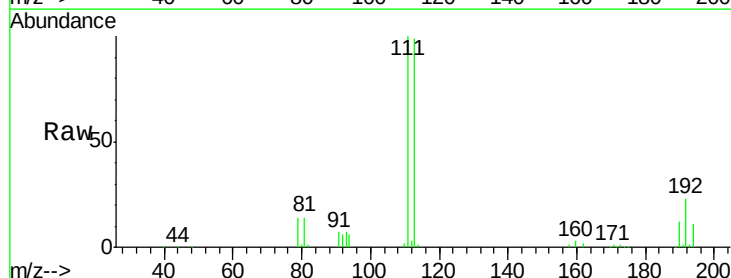
Tgt Ion:113 Resp: 352920

Ion Ratio Lower Upper

113 100

111 102.2 81.1 121.7

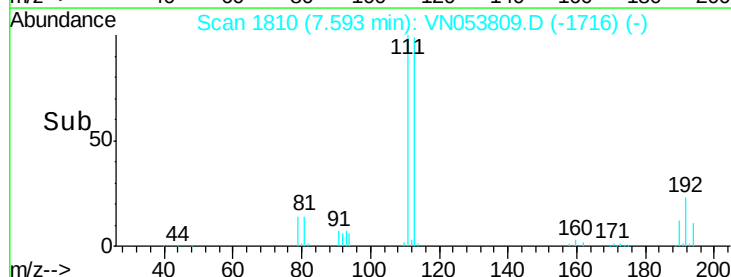
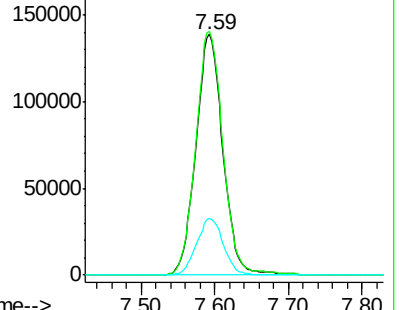
192 23.5 18.2 27.2

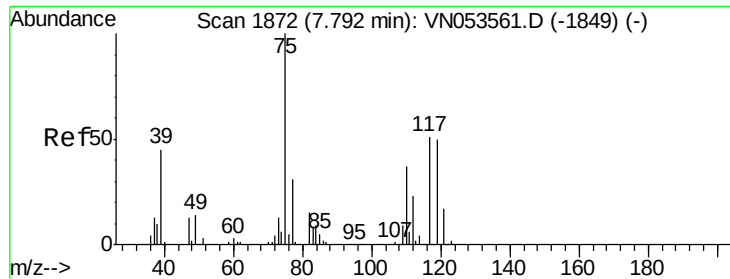


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.956 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053809.D

Acq: 15 Feb 2019 19:19

Instrument :

MSVOA_N

ClientSampled :

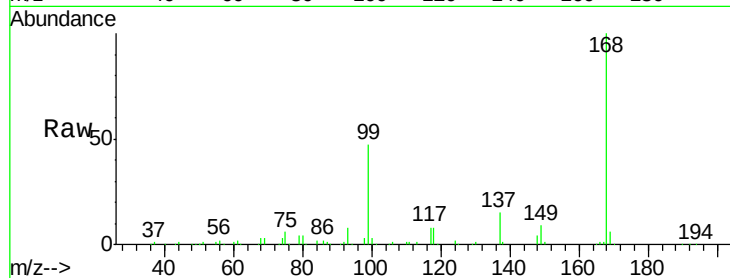
Tot Ion: 75 Resp: 39562

Ion Ratio Lower Upper

75 100

110 8.3 18.1 54.3#

77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VN053809.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN053809.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN053809.D (-1779) (-)

7.67

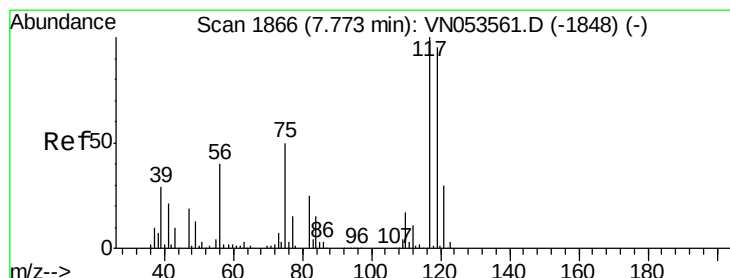
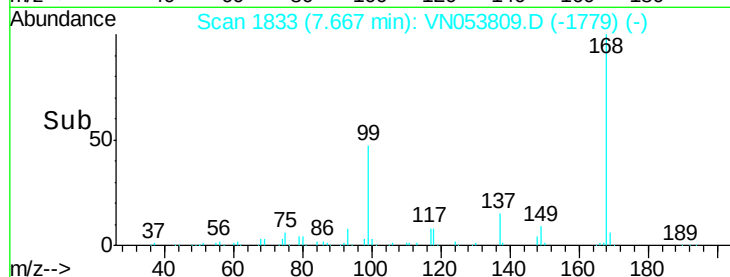
15000

10000

5000

0

Time--> 7.55 7.60 7.65 7.70 7.75



#38

Carbon Tetrachloride

Concen: 5.192 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.10 min

Lab File: VN053809.D

Acq: 15 Feb 2019 19:19

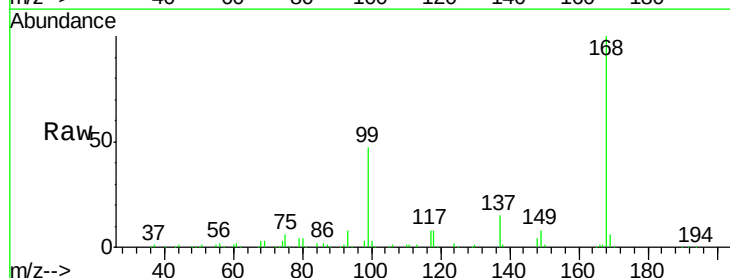
Tgt Ion: 117 Resp: 52308

Ion Ratio Lower Upper

117 100

119 5.3 77.2 115.8#

121 0.0 24.6 37.0#



Abundance Ion 116.80 (116.50 to 117.50): VN053809.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN053809.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN053809.D (-1773) (-)

7.67

25000

20000

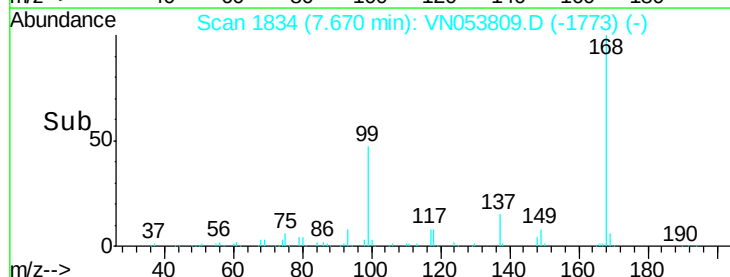
15000

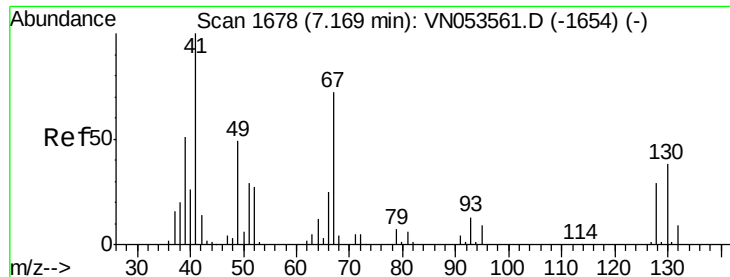
10000

5000

0

Time--> 7.60 7.65 7.70 7.75

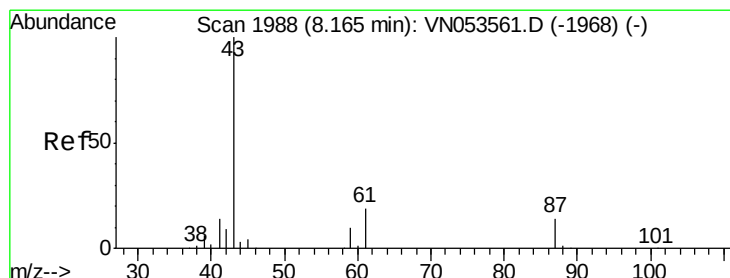
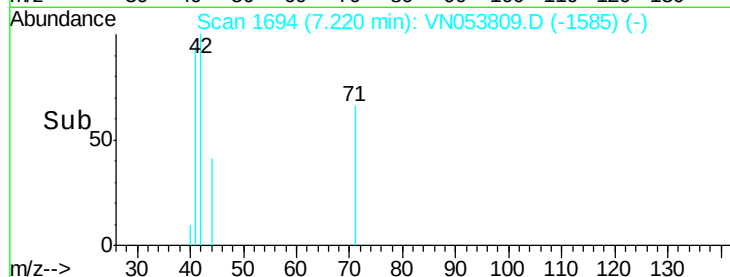
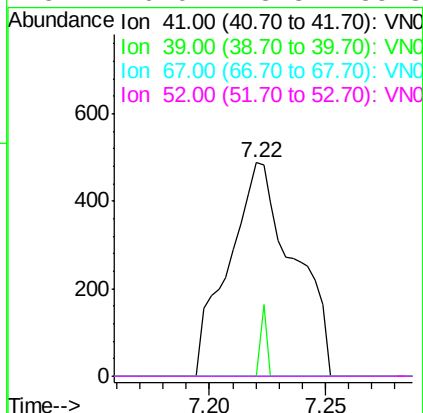
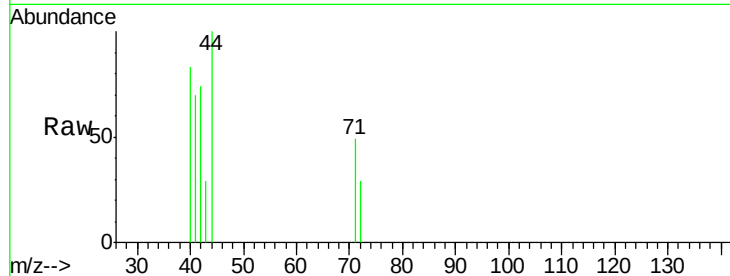




#41
Methacrylonitrile
Concen: 0.305 ug/l
RT: 7.22 min Scan# 1694
Delta R.T. 0.05 min
Lab File: VN053809.D
Acq: 15 Feb 2019 19:19

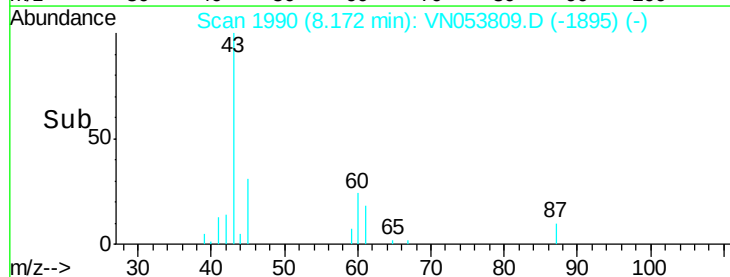
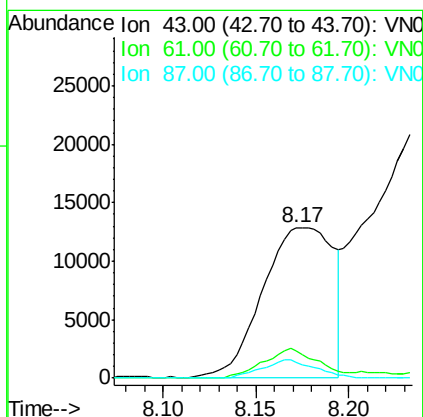
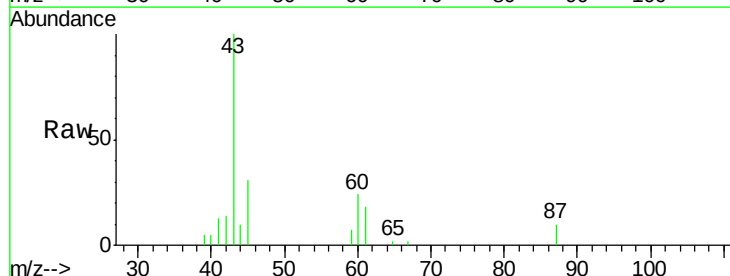
Instrument :
MSVOA_N
ClientSampled :

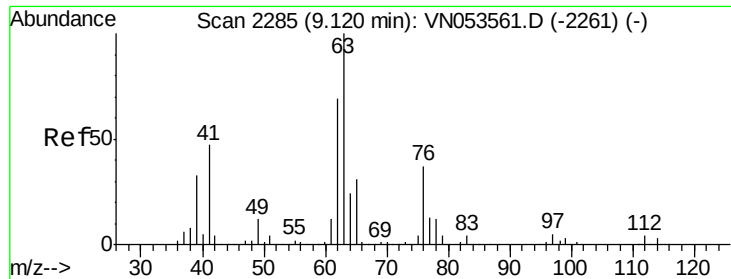
Tot Ion: 41 Resp: 951
Ion Ratio Lower Upper
41 100
39 3.4 46.8 70.2#
67 0.0 63.0 94.6#
52 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 3.163 ug/l
RT: 8.17 min Scan# 1990
Delta R.T. 0.01 min
Lab File: VN053809.D
Acq: 15 Feb 2019 19:19

Tgt Ion: 43 Resp: 34123
Ion Ratio Lower Upper
43 100
61 15.0 23.9 35.9#
87 9.2 11.0 16.6#

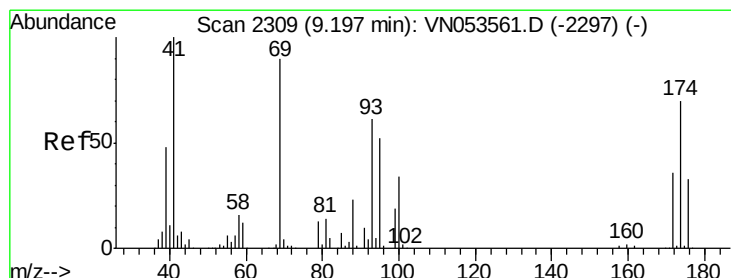
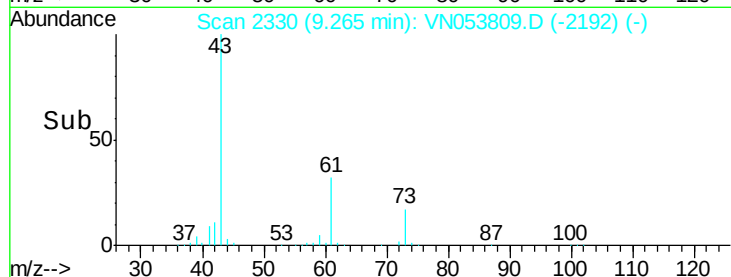
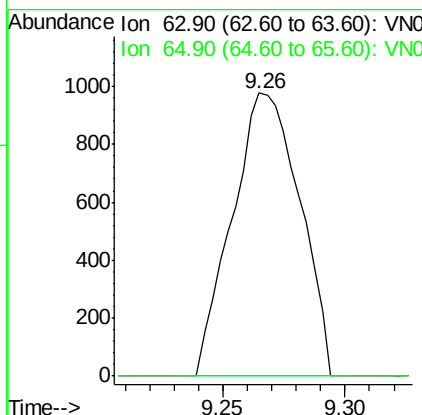
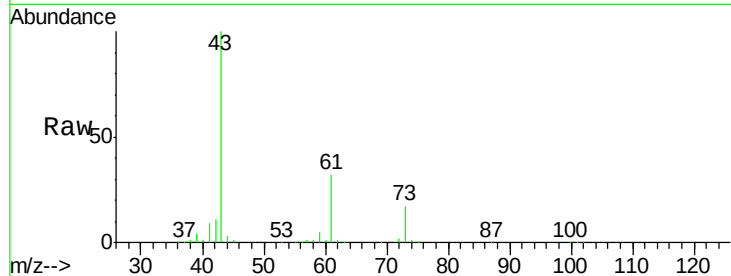




#45
 1,2-Dichloropropane
 Concen: 0.238 ug/l
 RT: 9.26 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN053809.D
 Acq: 15 Feb 2019 19:19

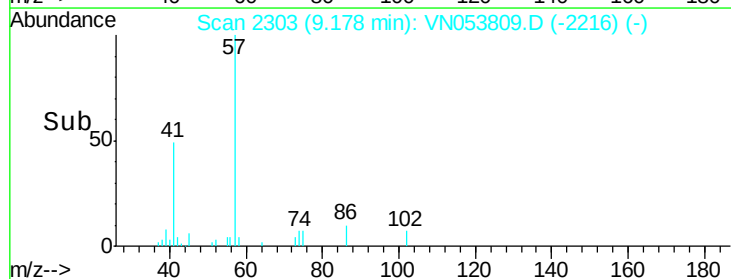
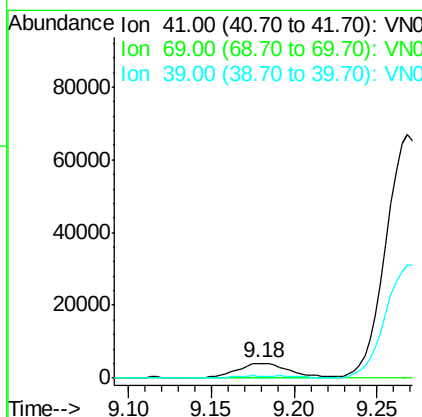
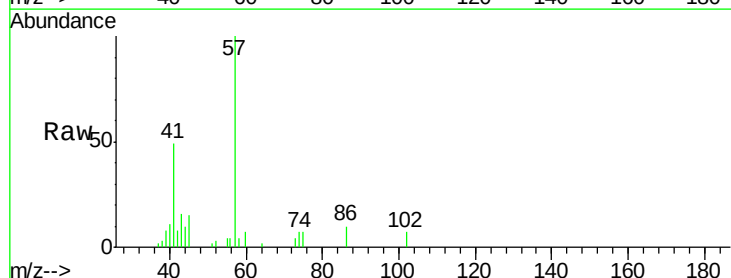
Instrument :
 MSVOA_N
 ClientSampled :

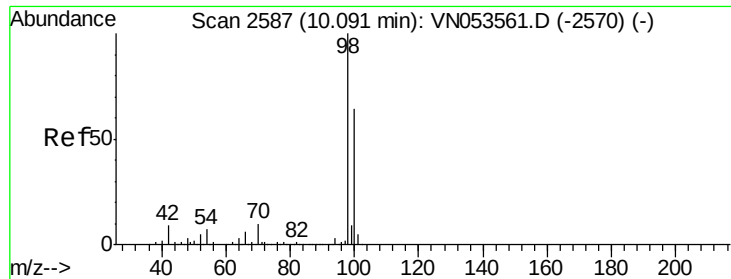
Tot Ion: 63 Resp: 1877
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.4#



#48
 Methyl methacrylate
 Concen: 1.809 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN053809.D
 Acq: 15 Feb 2019 19:19

Tgt Ion: 41 Resp: 9316
 Ion Ratio Lower Upper
 41 100
 69 0.0 73.8 110.6#
 39 0.0 40.0 60.0#

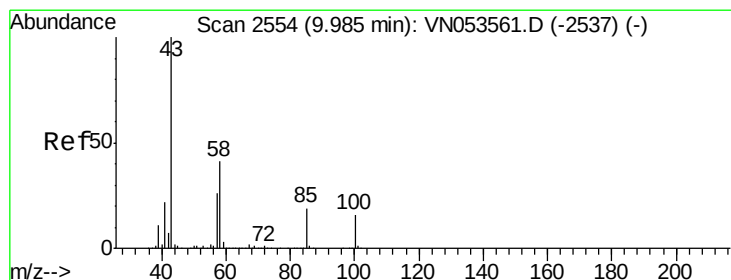
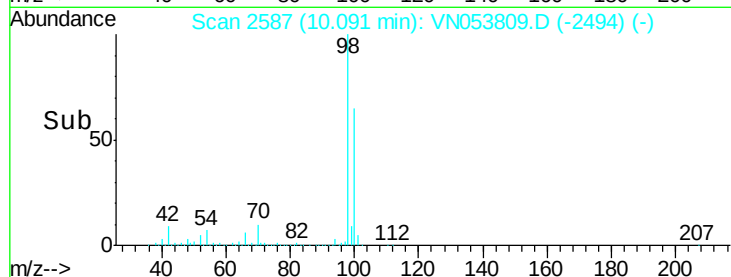
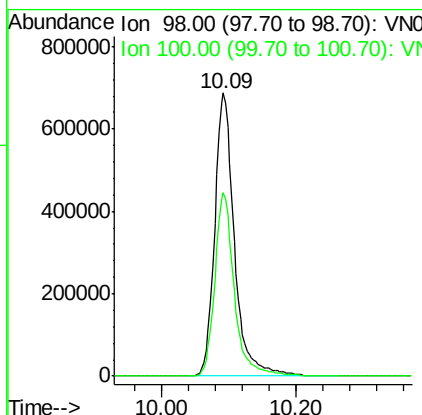
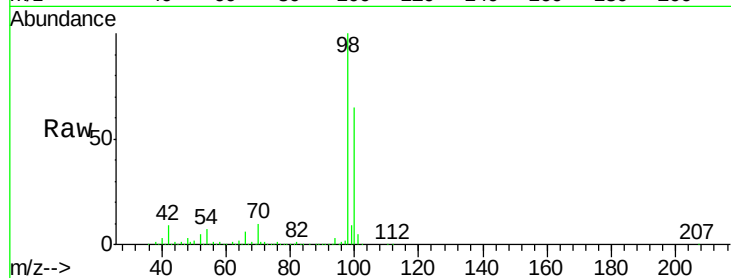




#50
Toluene-d8
Concen: 53.335 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053809.D
Acq: 15 Feb 2019 19:19

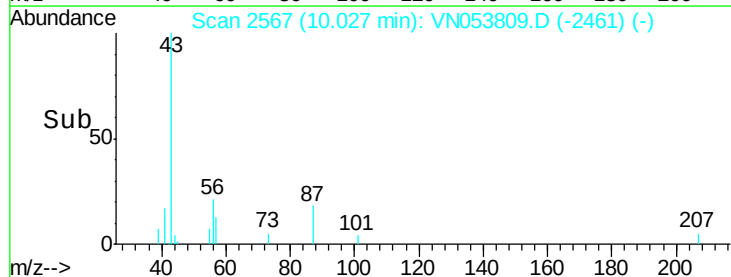
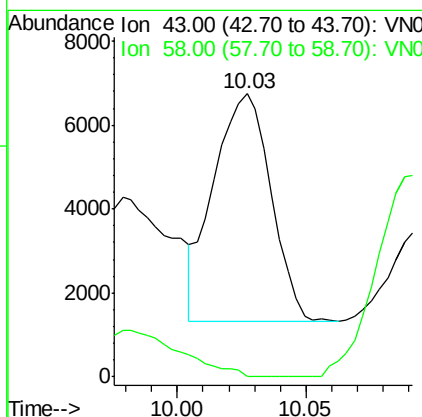
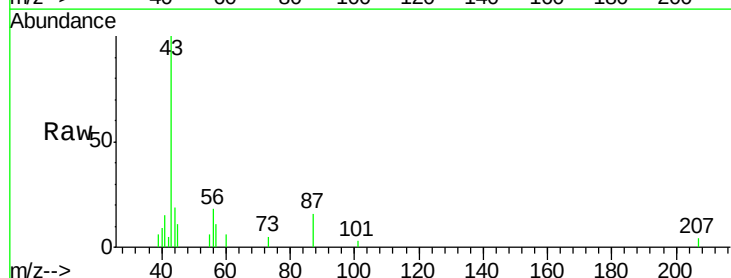
Instrument :
MSVOA_N
ClientSampleId :

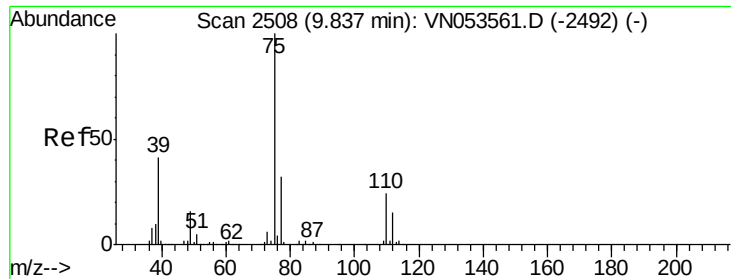
Tot Ion: 98 Resp: 1403981
Ion Ratio Lower Upper
98 100
100 64.2 51.4 77.0



#51
4-Methyl-2-Pentanone
Concen: 1.578 ug/l
RT: 10.03 min Scan# 2567
Delta R.T. 0.04 min
Lab File: VN053809.D
Acq: 15 Feb 2019 19:19

Tgt Ion: 43 Resp: 8366
Ion Ratio Lower Upper
43 100
58 0.0 32.8 49.2#



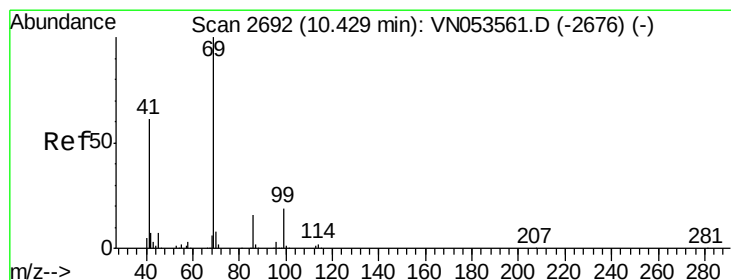
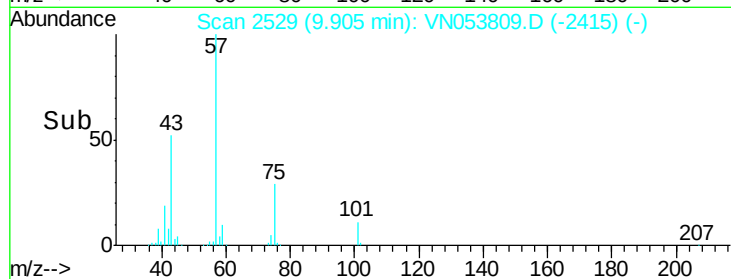
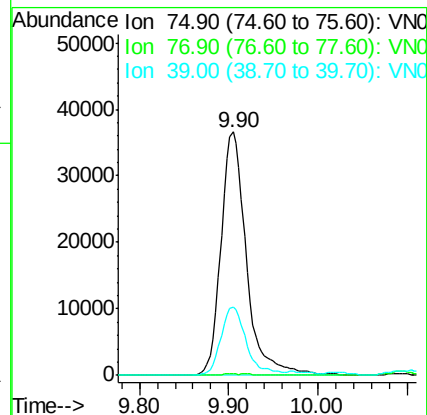
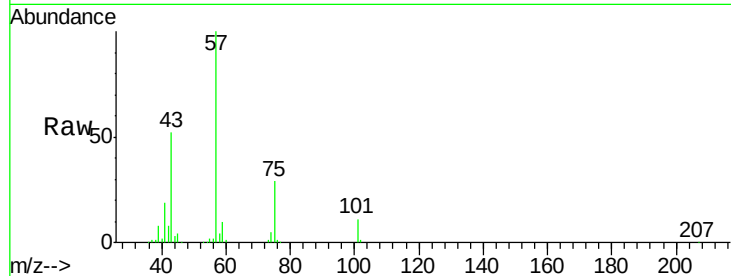


#54

cis-1,3-Dichloropropene
 Concen: 6.182 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN053809.D
 Acq: 15 Feb 2019 19:19

Instrument :
 MSVOA_N
 ClientSampleId :

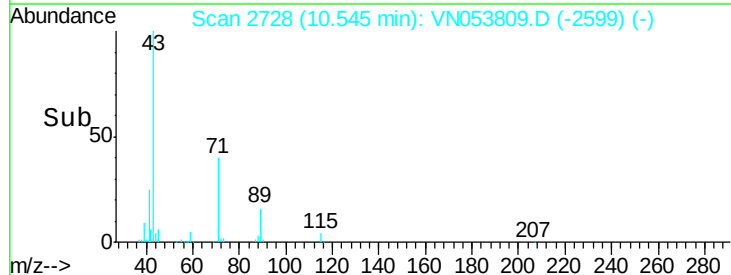
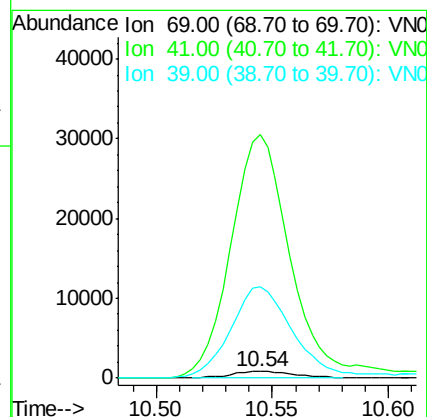
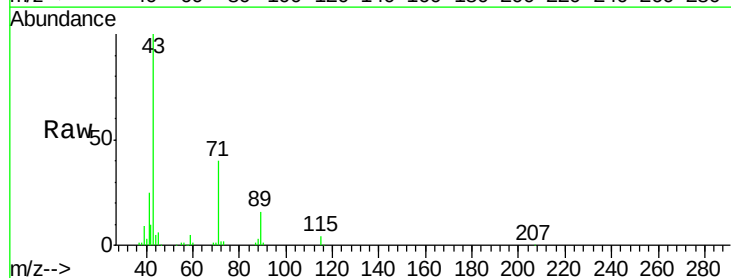
Tot Ion: 75 Resp: 72534
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.8 38.6#
 39 28.2 33.4 50.0#

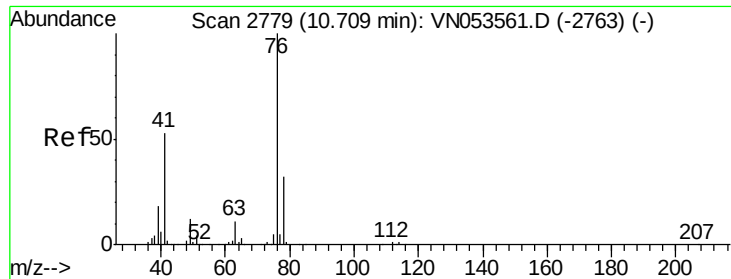


#56

Ethyl methacrylate
 Concen: 0.206 ug/l
 RT: 10.54 min Scan# 2728
 Delta R.T. 0.12 min
 Lab File: VN053809.D
 Acq: 15 Feb 2019 19:19

Tgt Ion: 69 Resp: 1605
 Ion Ratio Lower Upper
 69 100
 41 3419.4 49.4 74.0#
 39 1348.8 23.3 34.9#

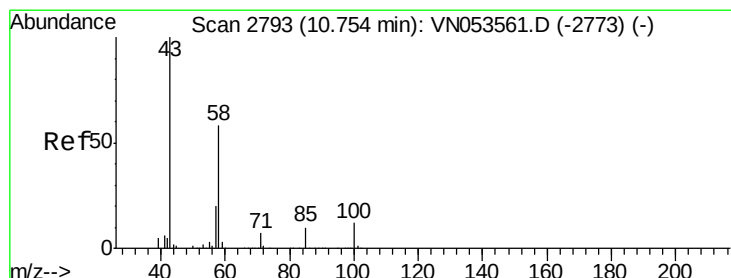
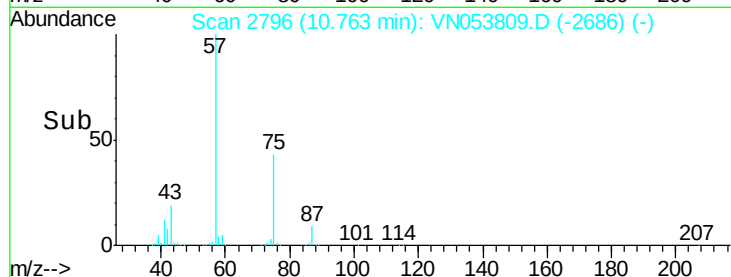
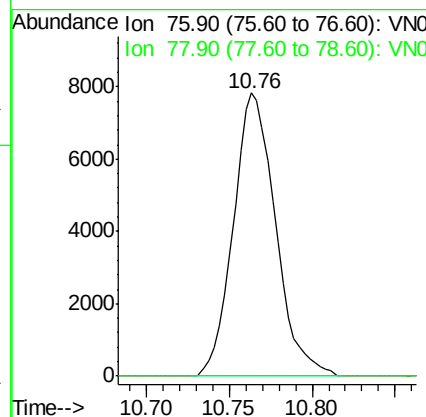
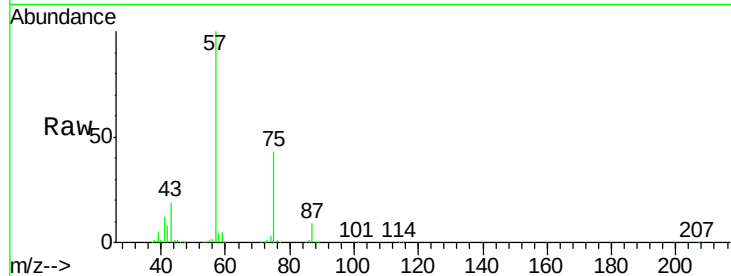




#57
 1,3-Dichloropropane
 Concen: 1.227 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053809.D
 Acq: 15 Feb 2019 19:19

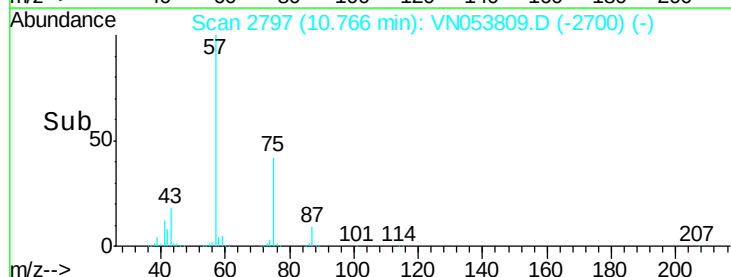
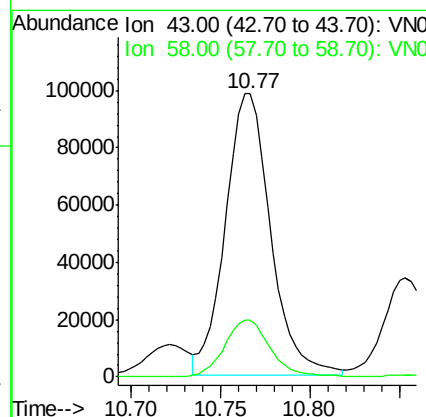
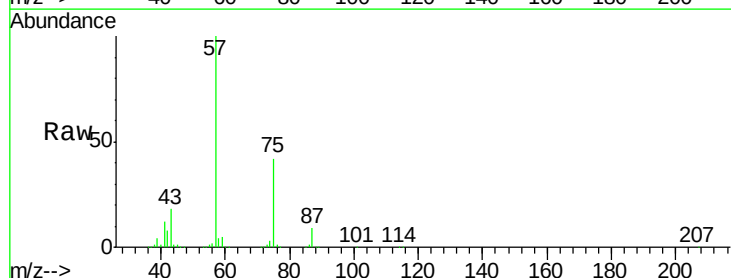
Instrument :
 MSVOA_N
 ClientSampled :

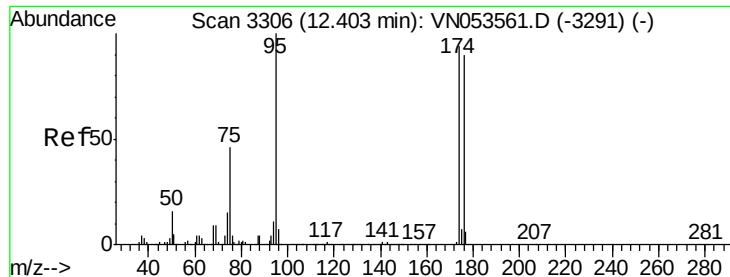
Tot Ion: 76 Resp: 13827
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 48.405 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN053809.D
 Acq: 15 Feb 2019 19:19

Tgt Ion: 43 Resp: 174196
 Ion Ratio Lower Upper
 43 100
 58 20.8 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: 55.225 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053809.D

Acq: 15 Feb 2019 19:19

Instrument :

MSVOA_N

ClientSampleId :

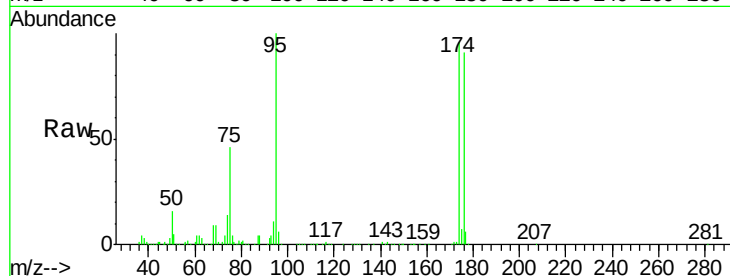
Tot Ion: 95 Resp: 484844

Ion Ratio Lower Upper

95 100

174 94.7 0.0 183.2

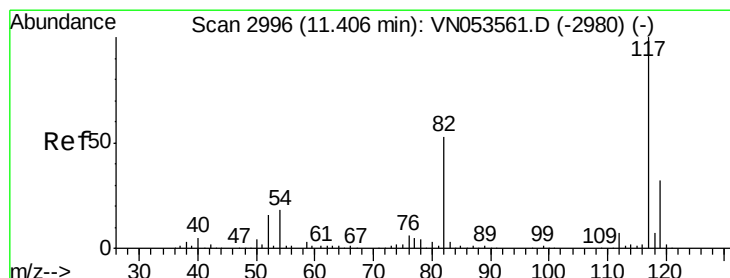
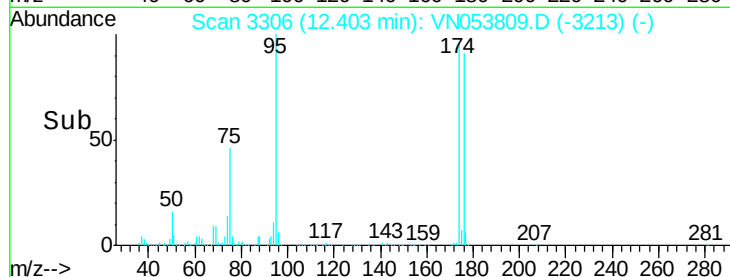
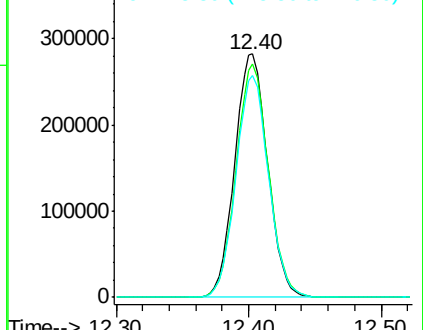
176 90.6 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053809.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN053809.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN053809.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN053809.D

Acq: 15 Feb 2019 19:19

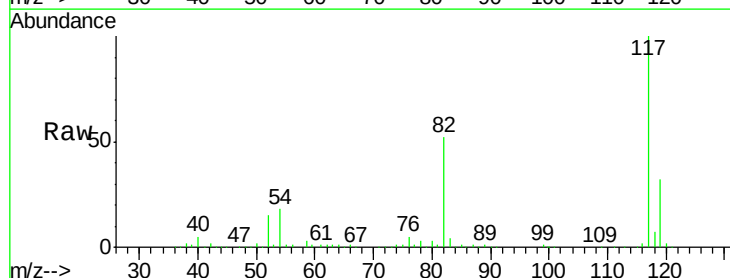
Tgt Ion: 117 Resp: 1143121

Ion Ratio Lower Upper

117 100

82 51.7 42.9 64.3

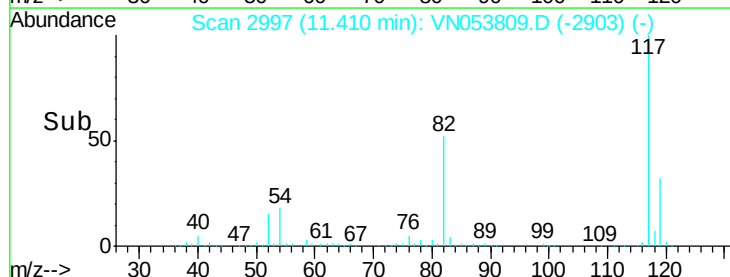
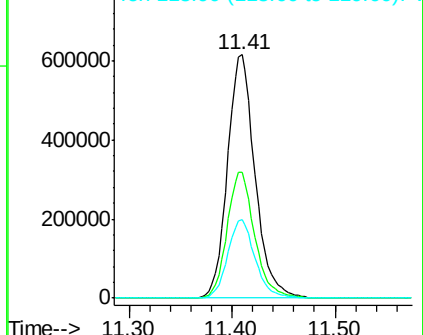
119 32.3 26.0 39.0

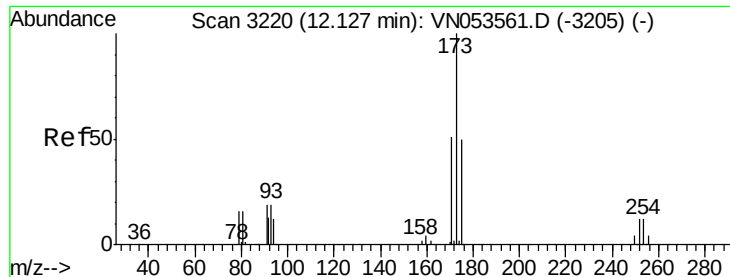


Abundance Ion 116.90 (116.60 to 117.60): VN053809.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053809.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053809.D (-2903) (-)





#71

Bromoform

Concen: 0.608 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN053809.D

Acq: 15 Feb 2019 19:19

Instrument :

MSVOA_N

ClientSampled :

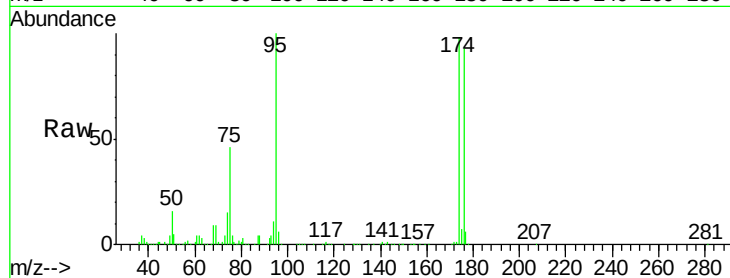
Tot Ion:173 Resp: 3535

Ion Ratio Lower Upper

173 100

175 787.4 24.6 74.0#

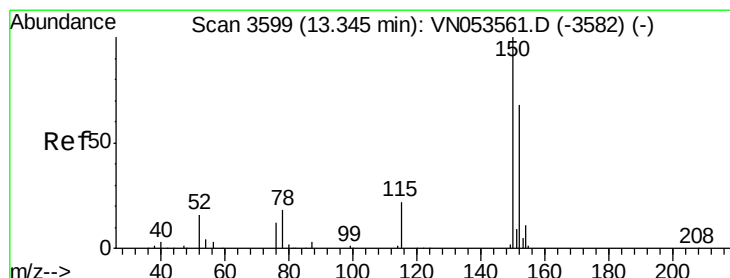
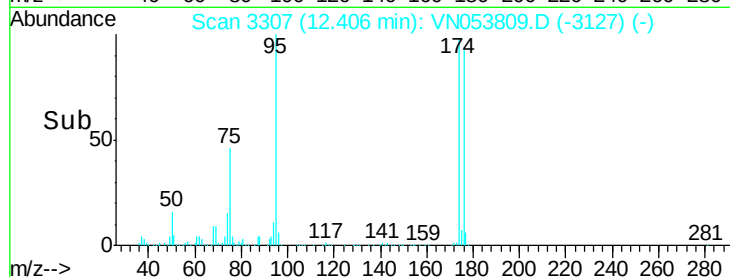
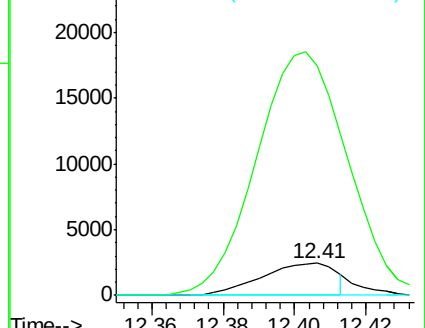
254 0.0 0.2 0.2#



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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053809.D

Acq: 15 Feb 2019 19:19

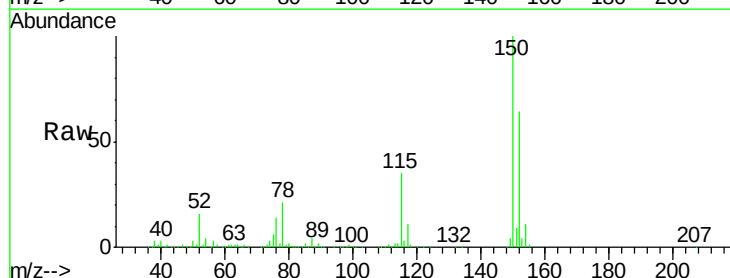
Tgt Ion:152 Resp: 445823

Ion Ratio Lower Upper

152 100

115 55.2 27.8 83.4

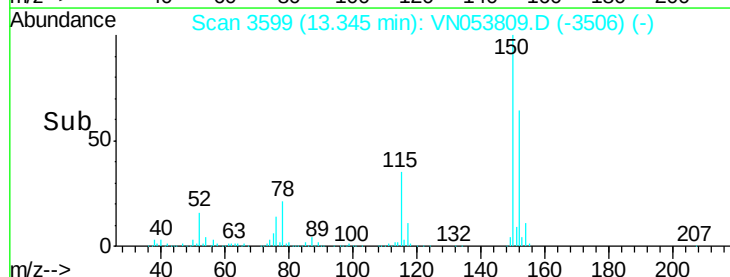
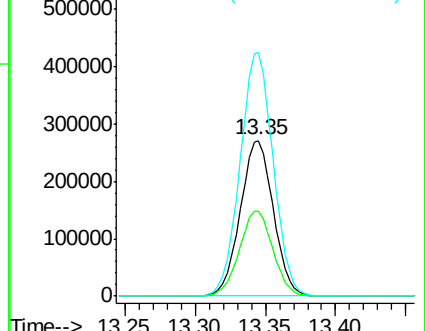
150 156.9 0.0 349.0

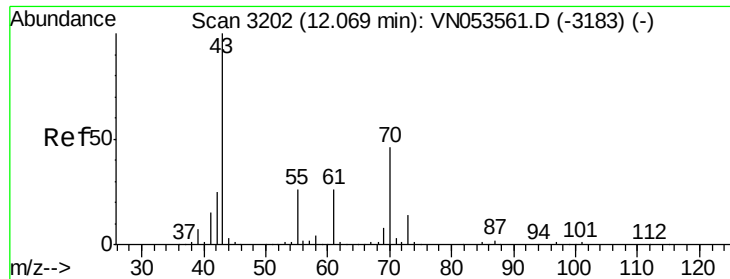


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 2.723 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053809.D

Acq: 15 Feb 2019 19:19

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 20524

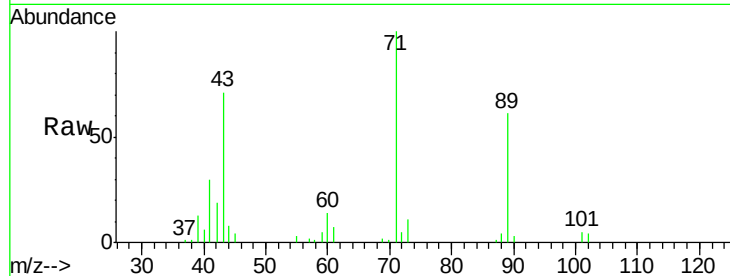
Ion Ratio Lower Upper

43 100

70 1.6 35.4 53.2#

55 4.0 20.9 31.3#

61 11.0 20.5 30.7#

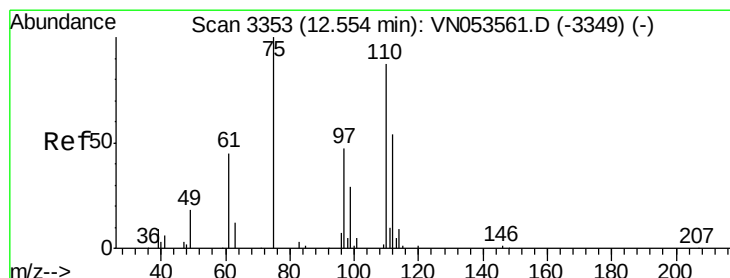
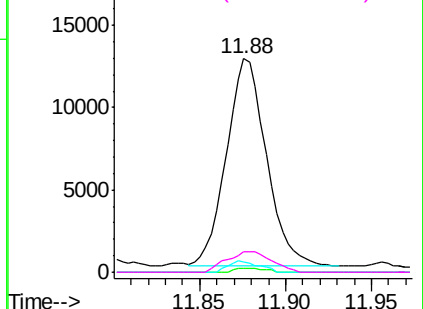
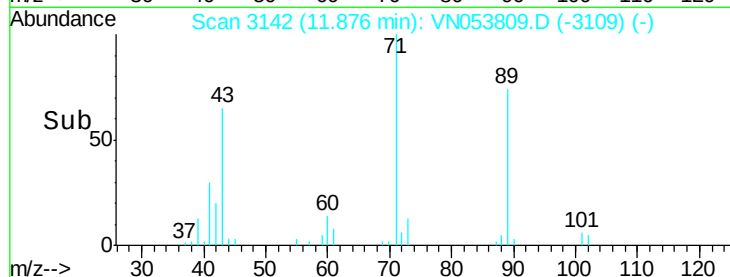


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 39.102 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053809.D

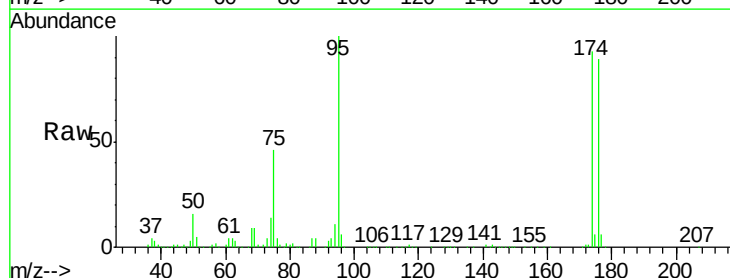
Acq: 15 Feb 2019 19:19

Tgt Ion: 75 Resp: 223908

Ion Ratio Lower Upper

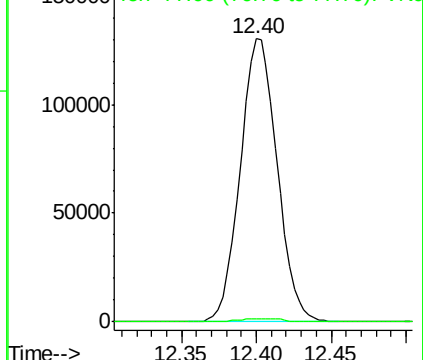
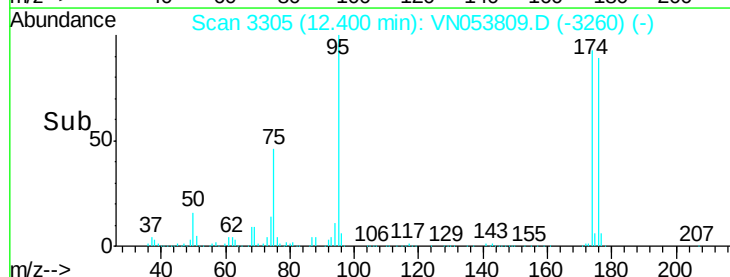
75 100

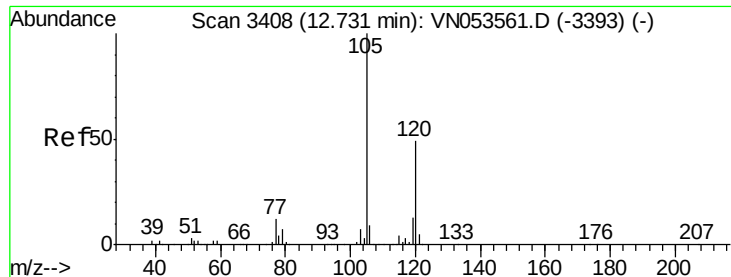
77 1.4 0.0 0.0#



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: 0.681 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053809.D

Acq: 15 Feb 2019 19:19

Instrument :

MSVOA_N

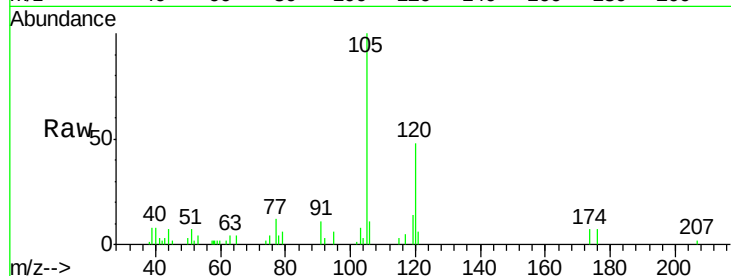
ClientSampleId :

Tot Ion:105 Resp: 17701

Ion Ratio Lower Upper

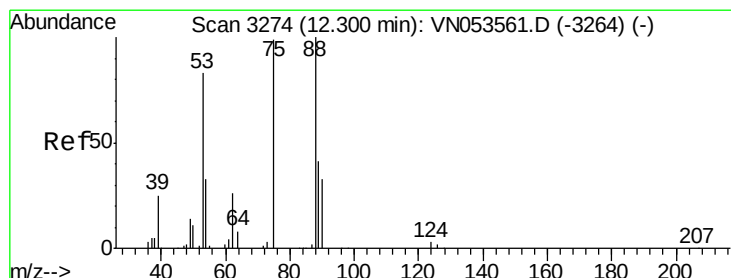
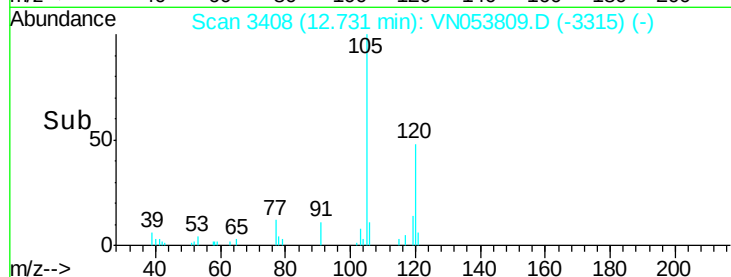
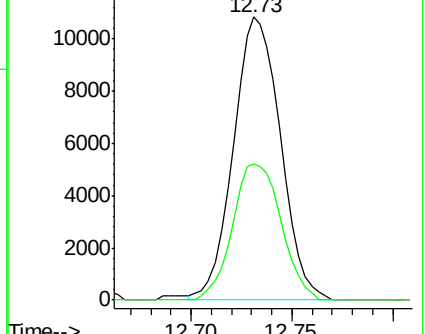
105 100

120 49.8 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: 109.950 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053809.D

Acq: 15 Feb 2019 19:19

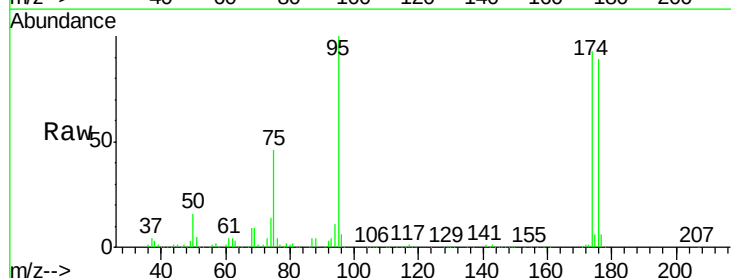
Tgt Ion: 75 Resp: 223908

Ion Ratio Lower Upper

75 100

53 0.1 69.8 104.6#

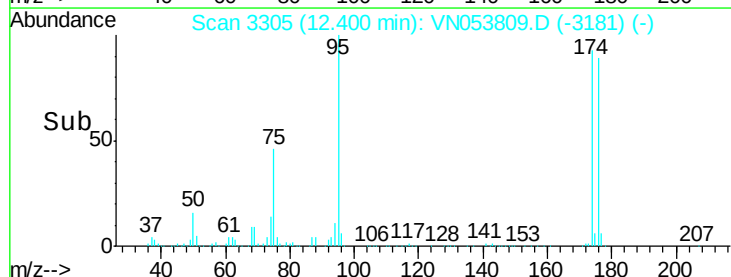
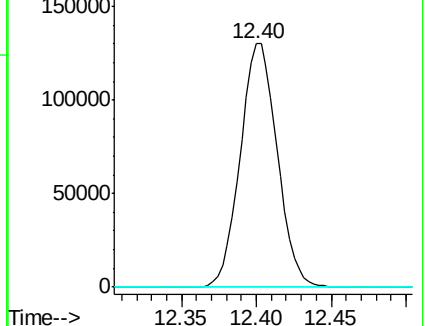
89 0.0 35.6 53.4#

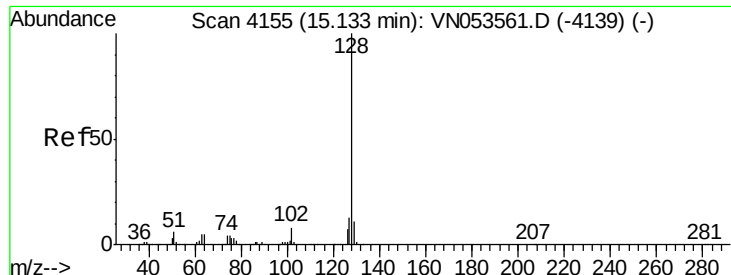


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#95

Naphthalene

Concen: 1.761 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

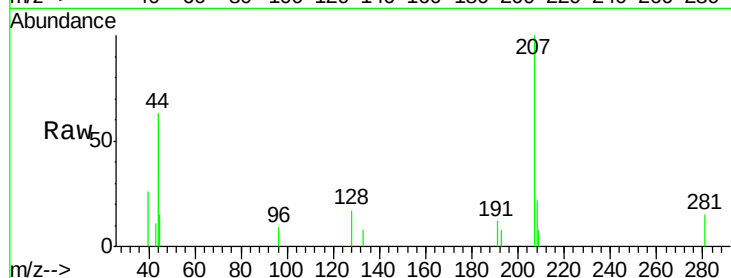
Lab File: VN053809.D

Acq: 15 Feb 2019 19:19

Instrument :

MSVOA_N

ClientSampleId :



Tot Ion:	128	Resp:	496
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.3	15.5#
129	0.0	8.6	13.0#

