

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020619\
 Data File : VN053631.D
 Acq On : 6 Feb 2019 13:36
 Operator : JC/SP
 Sample : PB116860ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#04

Quant Time: Feb 07 03:41:45 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	781951	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1278987	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1165293	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	489581	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	405914	51.75	ug/l	0.00
Spiked Amount			Recovery	=	103.50%	
35) Dibromofluoromethane	7.59	113	402026	49.75	ug/l	0.00
Spiked Amount			Recovery	=	99.50%	
50) Toluene-d8	10.09	98	1532160	50.49	ug/l	0.00
Spiked Amount			Recovery	=	100.98%	
62) 4-Bromofluorobenzene	12.40	95	514610	50.85	ug/l	0.00
Spiked Amount			Recovery	=	101.70%	

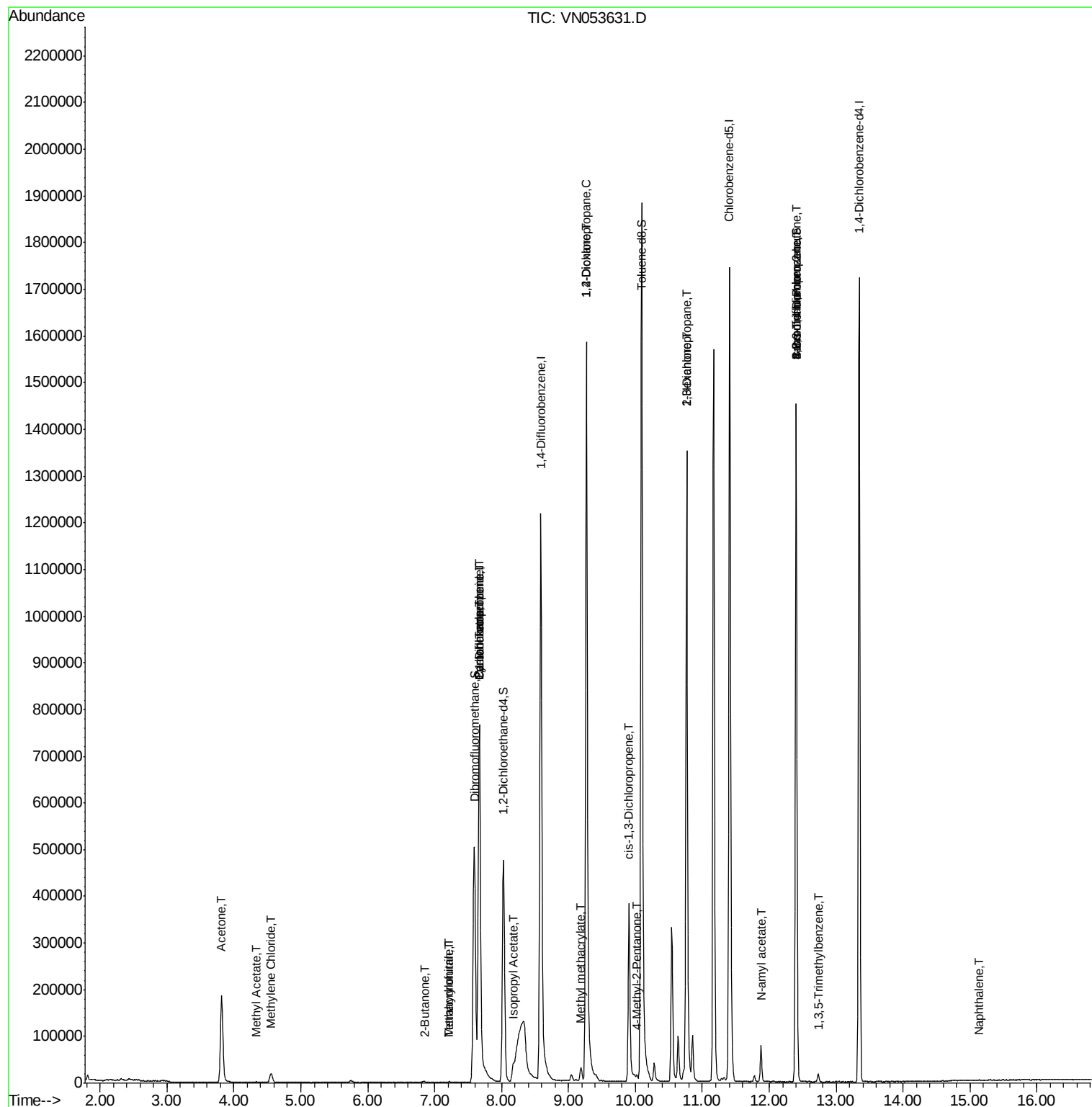
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.81	43	314952	156.527	ug/l	97
18) Methyl Acetate	4.33	43	2237	0.375	ug/l #	84
20) Methylene Chloride	4.55	84	15363	1.820	ug/l	98
25) 2-Butanone	6.84	43	4348	1.515	ug/l #	84
29) Tetrahydrofuran	7.21	42	653	0.354	ug/l #	77
31) Cyclohexane	7.67	56	11260	0.682	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47953	4.159	ug/l #	49
38) Carbon Tetrachloride	7.67	117	62932	5.418	ug/l #	16
41) Methacrylonitrile	7.22	41	863	0.240	ug/l #	29
43) Isopropyl Acetate	8.17	43	37099	2.983	ug/l #	81
45) 1,2-Dichloropropane	9.26	63	2053	0.226	ug/l #	43
48) Methyl methacrylate	9.17	41	9987	1.682	ug/l #	12
49) 1,4-Dioxane	9.26	88	137	40.629	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	11091	1.815	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	83090	6.144	ug/l #	62
57) 1,3-Dichloropropane	10.76	76	14956	1.151	ug/l #	43
59) 2-Hexanone	10.76	43	206617	49.806	ug/l #	50
71) Bromoform	12.40	173	3574	0.603	ug/l #	1
74) N-amyl acetate	11.88	43	24637	2.977	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	239001	38.007	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8480	0.297	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.40	75	239001	106.872	ug/l #	15
95) Naphthalene	15.12	128	165	1.744	ug/l #	69

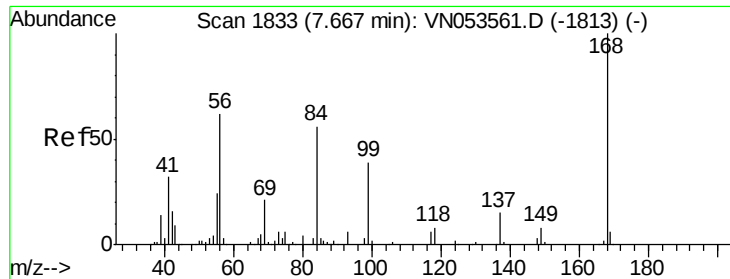
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 07 03:41:45 2019
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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# 1834

Delta R.T. 0.00 min

Lab File: VN053631.D

Acq: 6 Feb 2019 13:36

Instrument :

MSVOA_N

ClientSampleId :

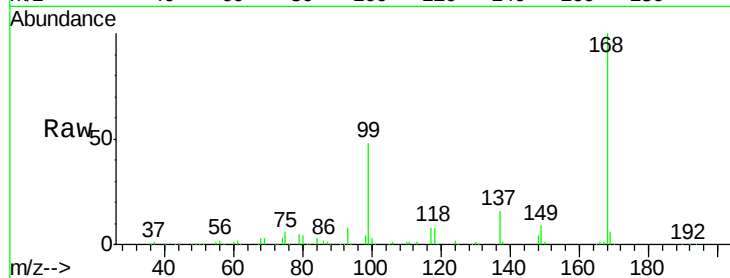
PB116860ZHE#04

Tot Ion:168 Resp: 781951

Ion Ratio Lower Upper

168 100

99 47.8 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

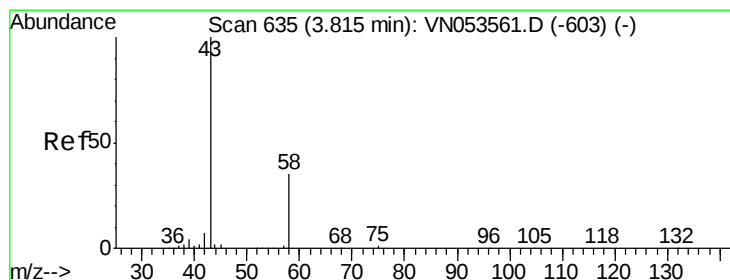
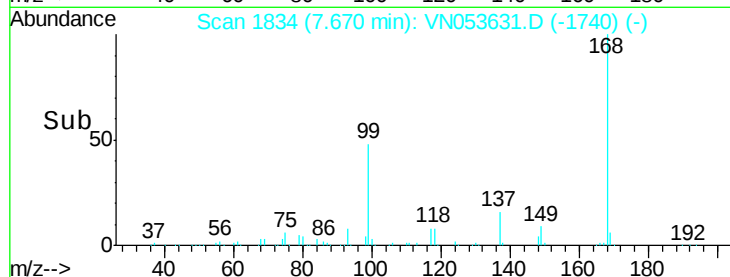
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 156.527 ug/l

RT: 3.81 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053631.D

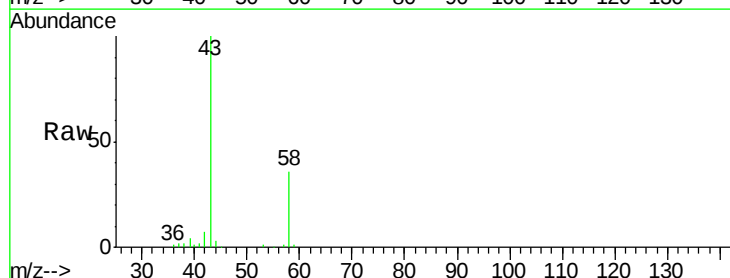
Acq: 6 Feb 2019 13:36

Tgt Ion: 43 Resp: 314952

Ion Ratio Lower Upper

43 100

58 35.6 27.1 40.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

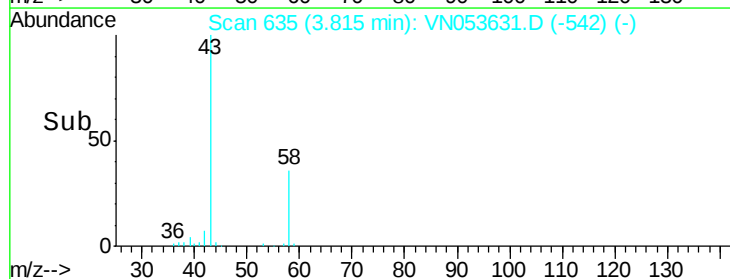
3.81

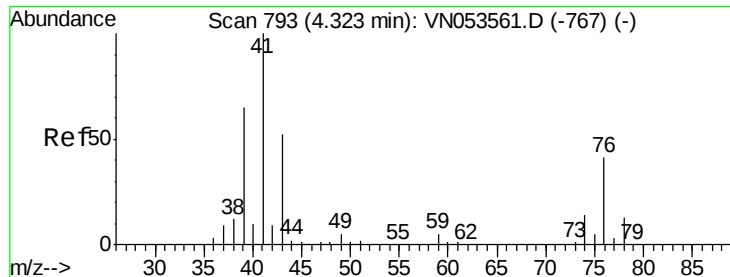
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50000

0

Time-->

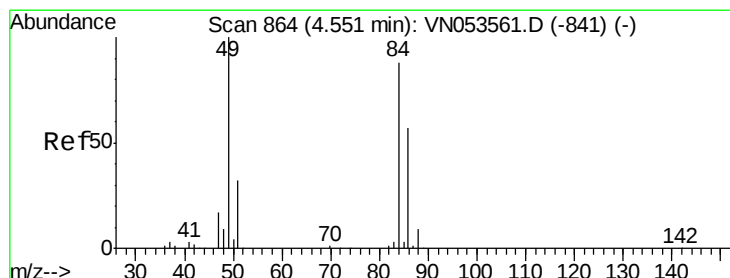
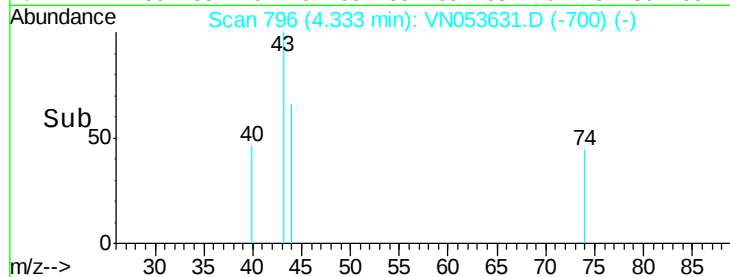
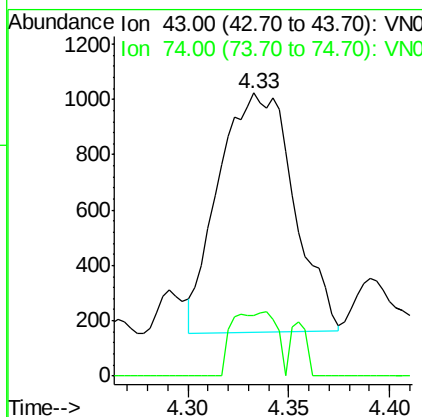
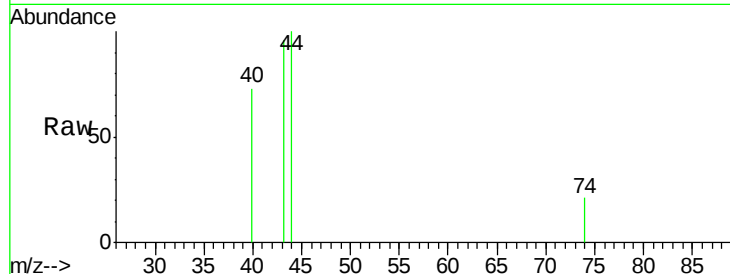




#18
Methyl Acetate
Concen: 0.375 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN053631.D
Acq: 6 Feb 2019 13:36

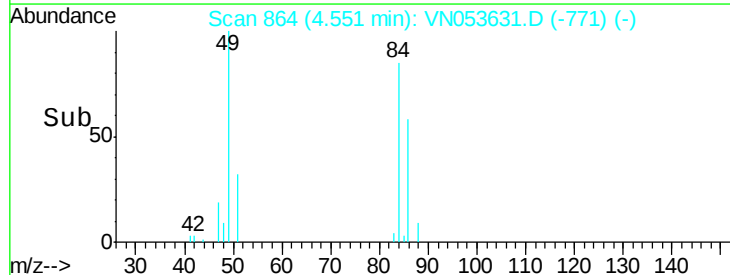
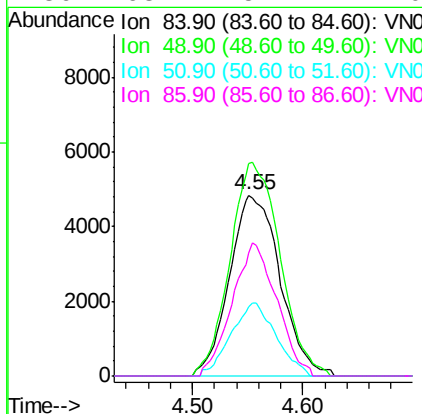
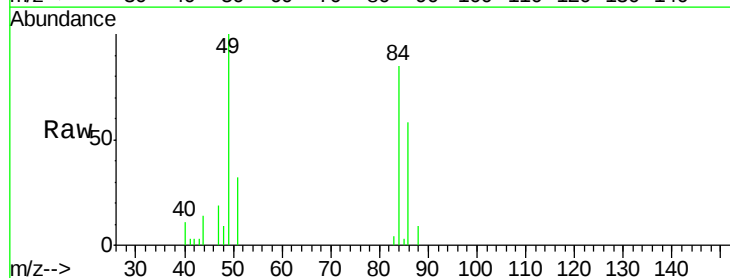
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#04

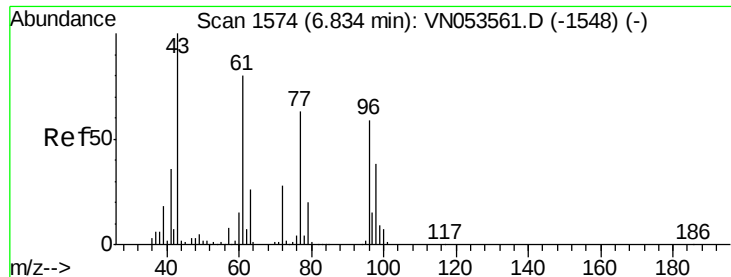
Tot Ion: 43 Resp: 2237
Ion Ratio Lower Upper
43 100
74 16.2 19.4 29.2#



#20
Methylene Chloride
Concen: 1.820 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN053631.D
Acq: 6 Feb 2019 13:36

Tgt Ion: 84 Resp: 15363
Ion Ratio Lower Upper
84 100
49 117.5 94.3 141.5
51 37.9 29.4 44.2
86 68.2 51.4 77.0

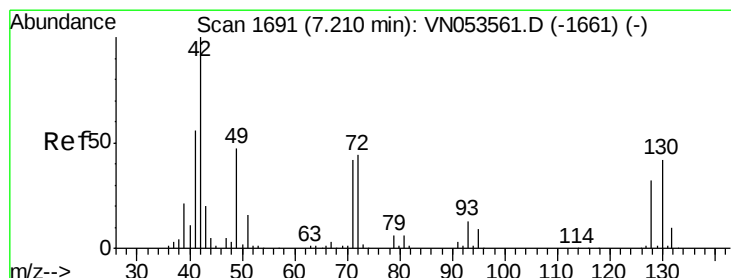
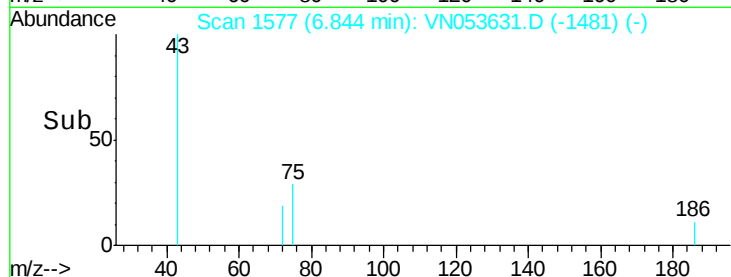
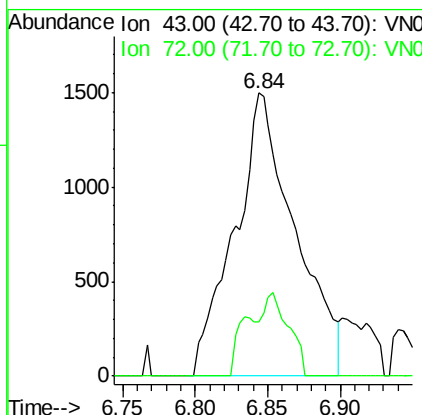
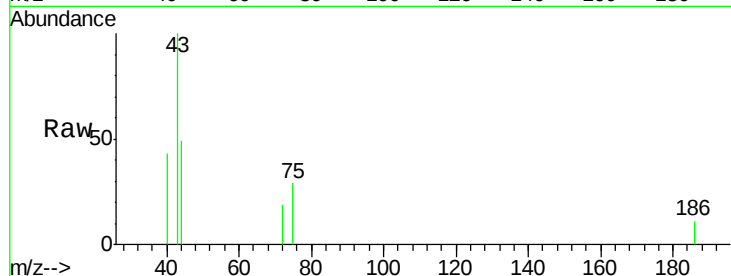




#25
2-Butanone
Concen: 1.515 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053631.D
Acq: 6 Feb 2019 13:36

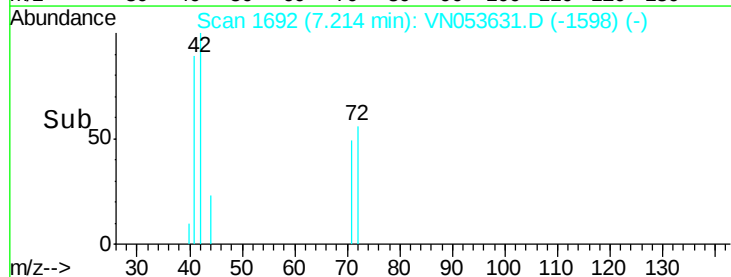
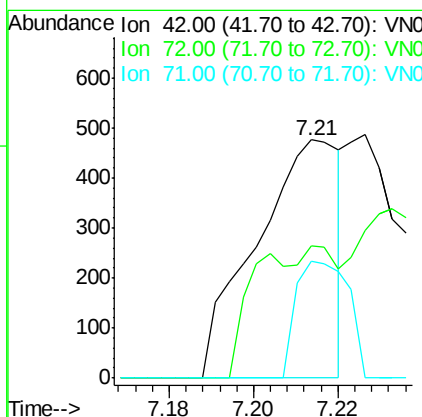
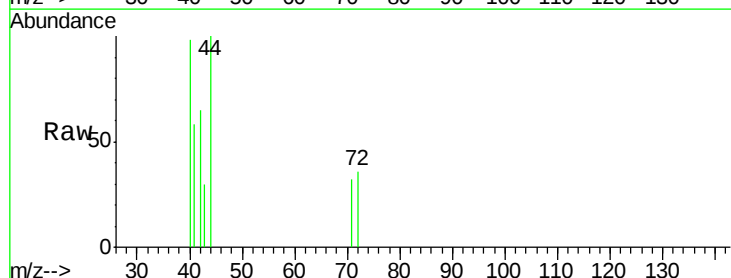
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#04

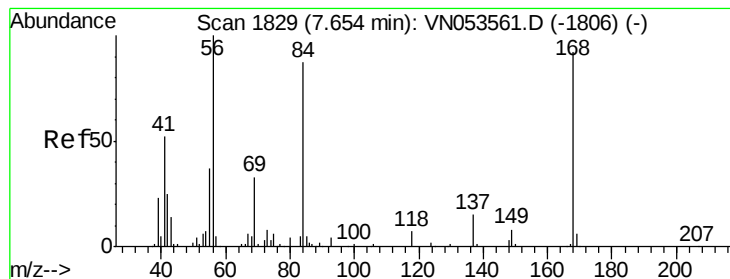
Tot Ion: 43 Resp: 4348
Ion Ratio Lower Upper
43 100
72 19.4 22.0 33.0#



#29
Tetrahydrofuran
Concen: 0.354 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053631.D
Acq: 6 Feb 2019 13:36

Tgt Ion: 42 Resp: 653
Ion Ratio Lower Upper
42 100
72 25.6 35.2 52.8#
71 30.8 33.0 49.4#





#31

Cyclohexane

Concen: 0.682 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN053631.D

Acq: 6 Feb 2019 13:36

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#04

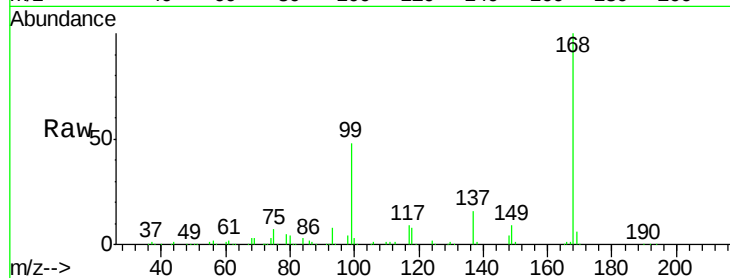
Tot Ion: 56 Resp: 11260

Ion Ratio Lower Upper

56 100

69 181.2 26.4 39.6#

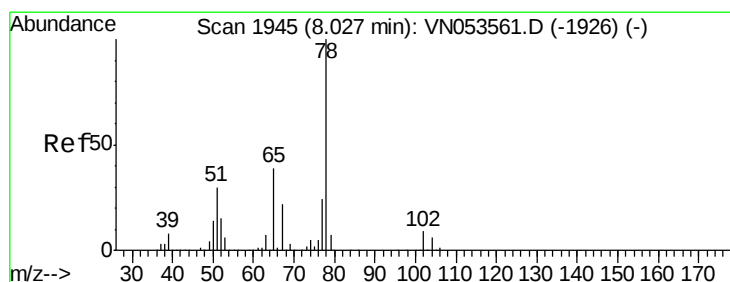
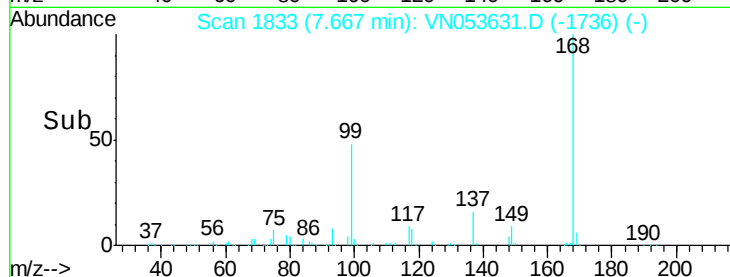
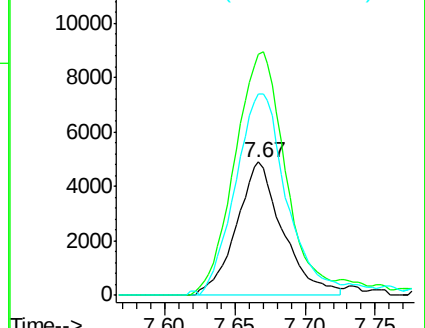
84 148.2 67.9 101.9#



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: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053631.D

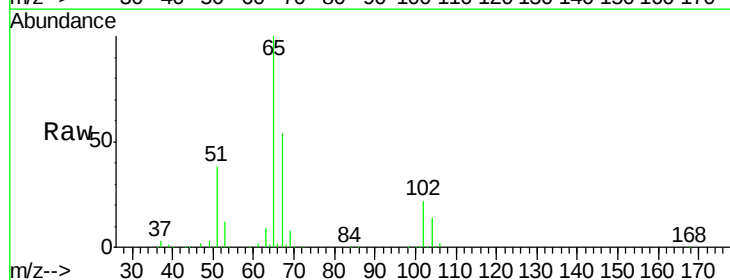
Acq: 6 Feb 2019 13:36

Tgt Ion: 65 Resp: 405914

Ion Ratio Lower Upper

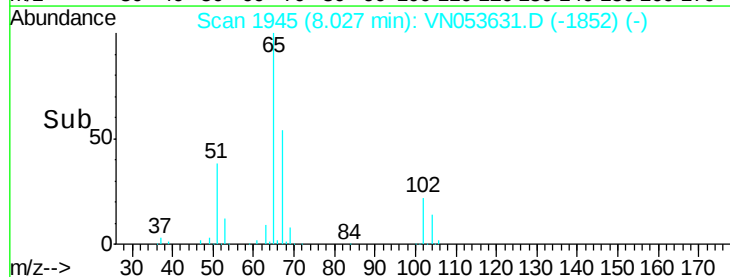
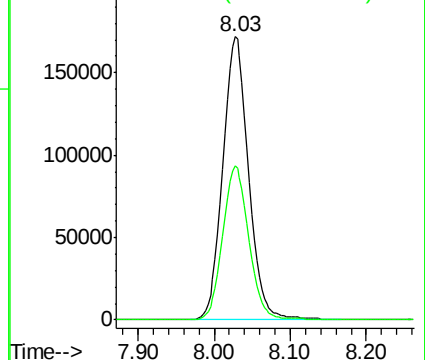
65 100

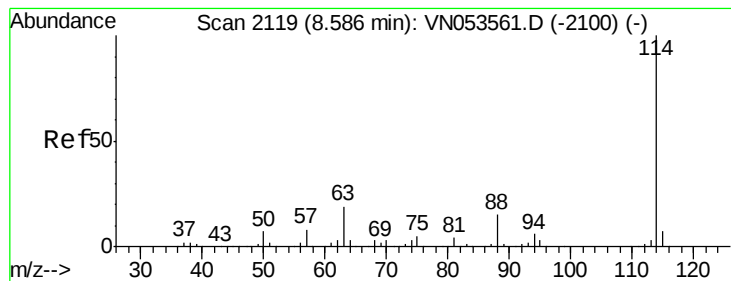
67 55.0 0.0 111.2



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: VN053631.D

Acq: 6 Feb 2019 13:36

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#04

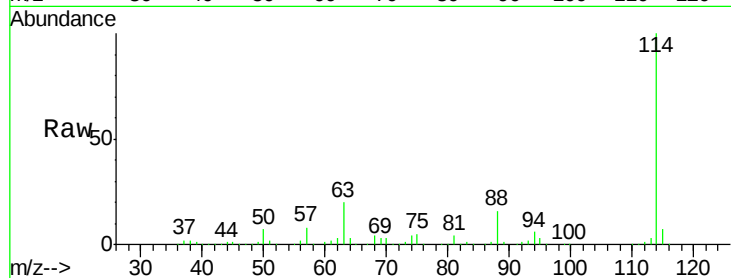
Tot Ion:114 Resp: 1278987

Ion Ratio Lower Upper

114 100

63 19.6 0.0 38.6

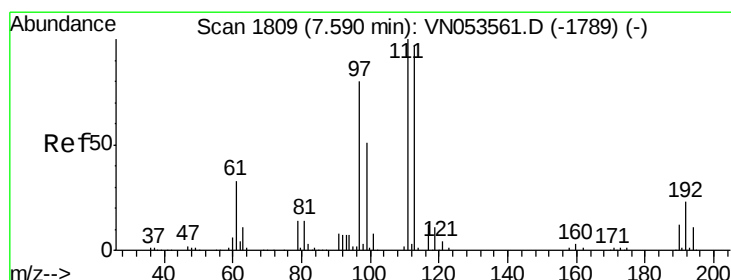
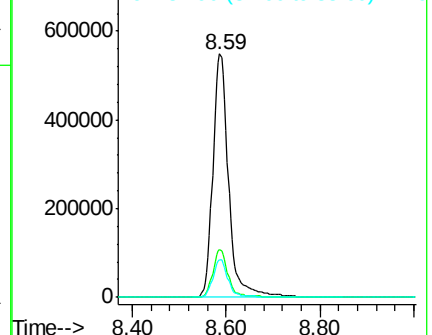
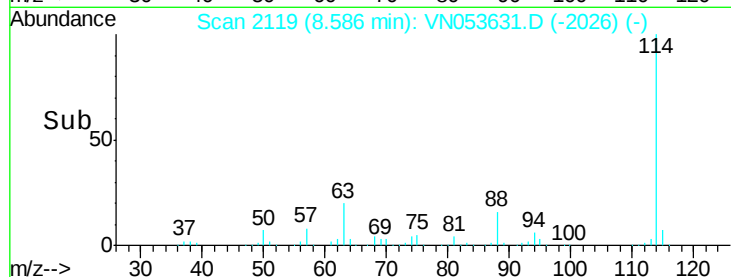
88 15.6 0.0 30.4



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: 50.000 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN053631.D

Acq: 6 Feb 2019 13:36

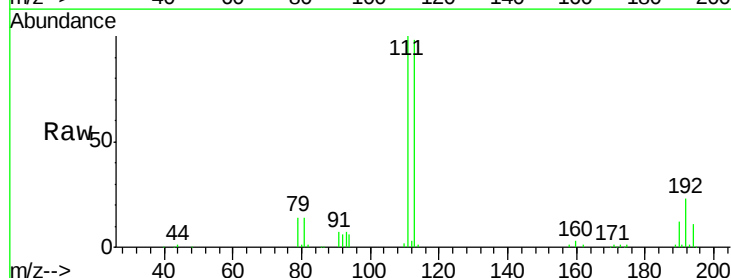
Tgt Ion:113 Resp: 402026

Ion Ratio Lower Upper

113 100

111 102.5 81.1 121.7

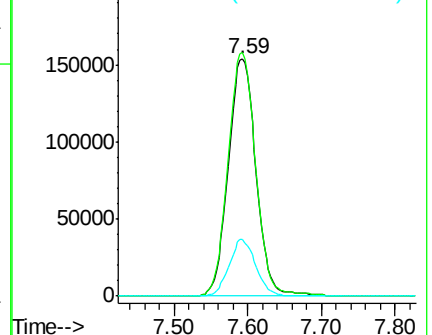
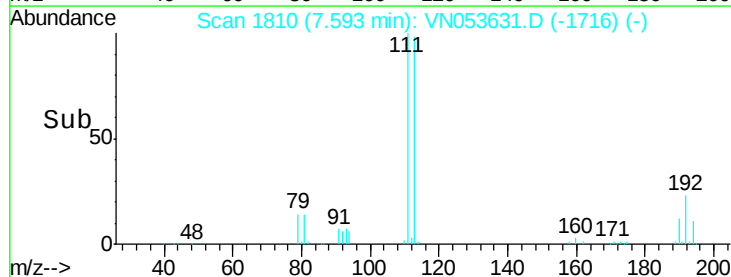
192 23.0 18.2 27.2

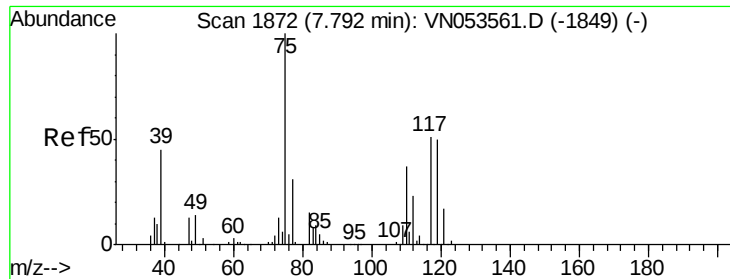


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

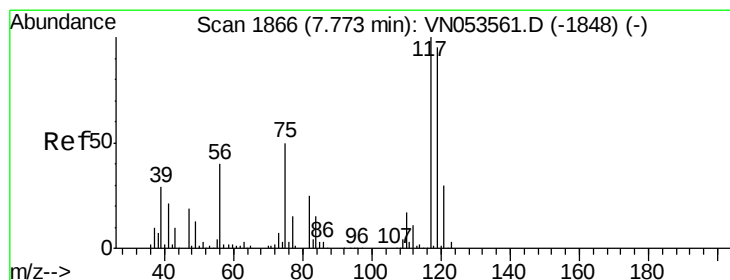
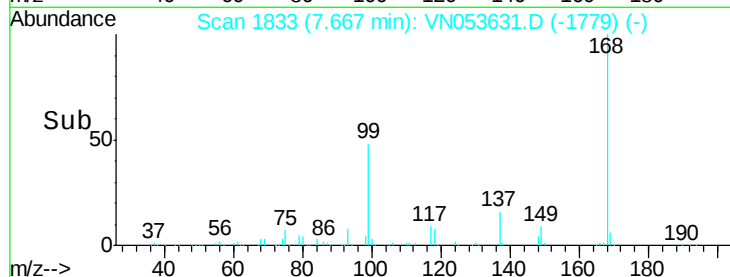
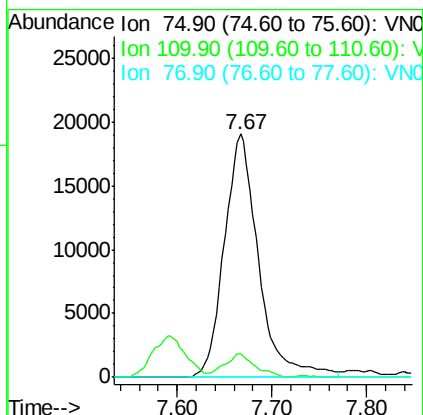
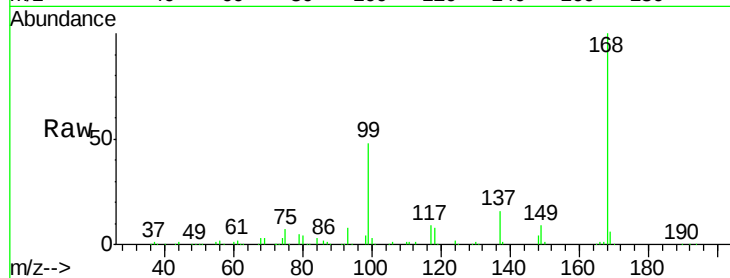




#36
 1,1-Dichloropropene
 Concen: 4.159 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053631.D
 Acq: 6 Feb 2019 13:36

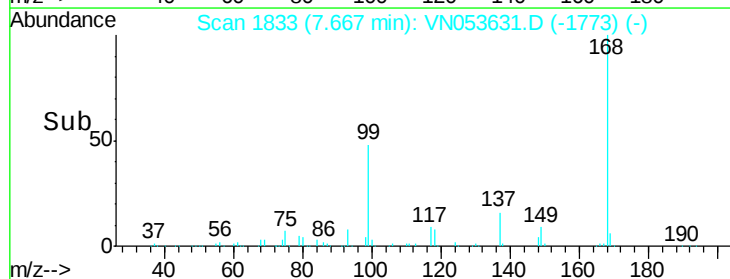
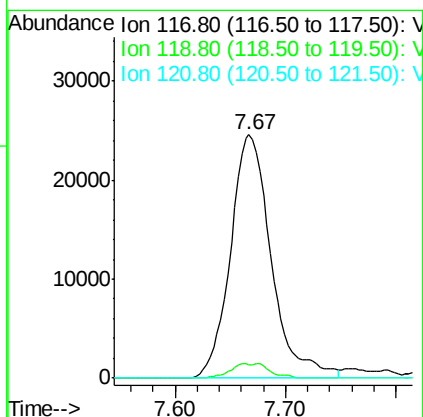
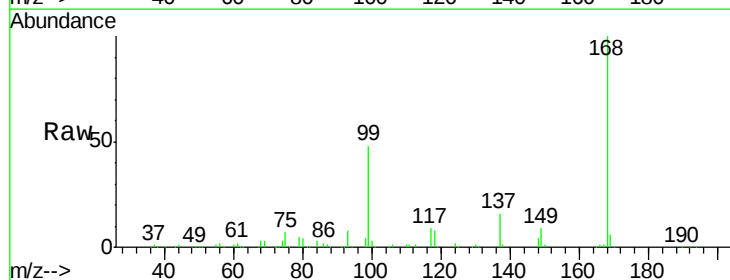
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#04

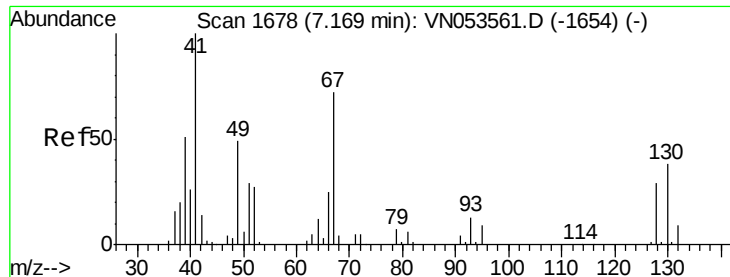
Tot Ion: 75 Resp: 47953
 Ion Ratio Lower Upper
 75 100
 110 8.6 18.1 54.3#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.418 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053631.D
 Acq: 6 Feb 2019 13:36

Tgt Ion: 117 Resp: 62932
 Ion Ratio Lower Upper
 117 100
 119 5.4 77.2 115.8#
 121 0.0 24.6 37.0#

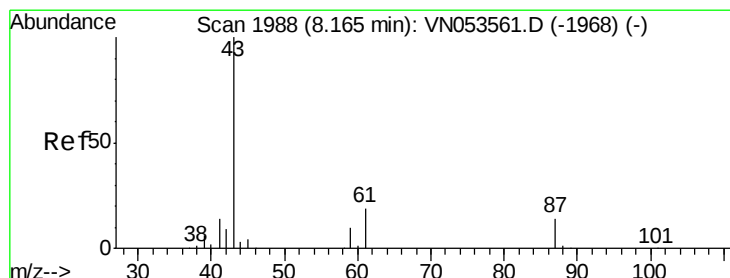
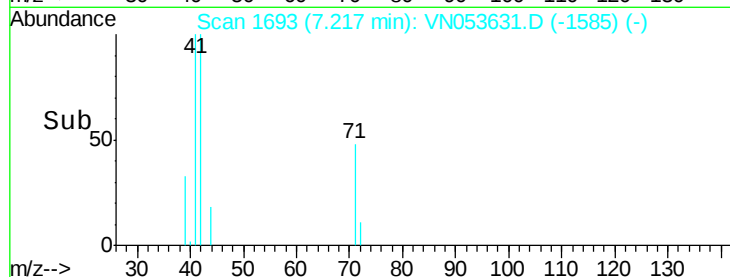
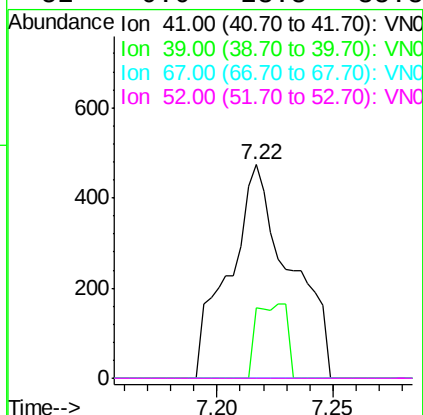
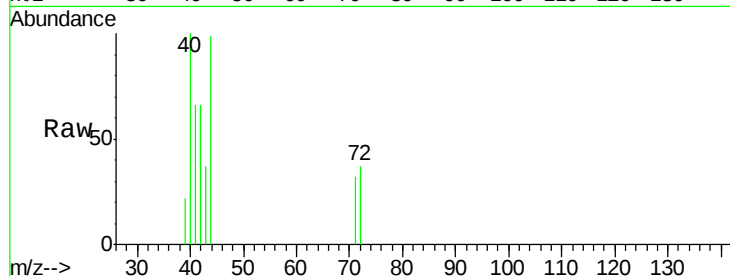




#41
Methacrylonitrile
Concen: 0.240 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.05 min
Lab File: VN053631.D
Acq: 6 Feb 2019 13:36

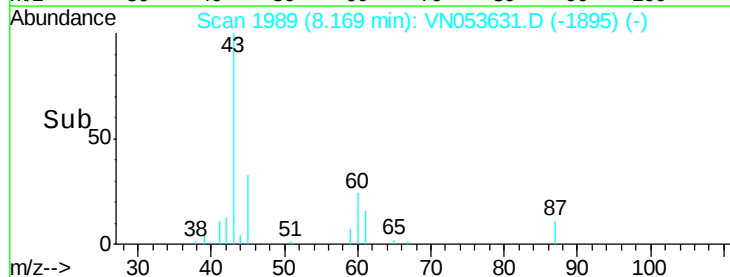
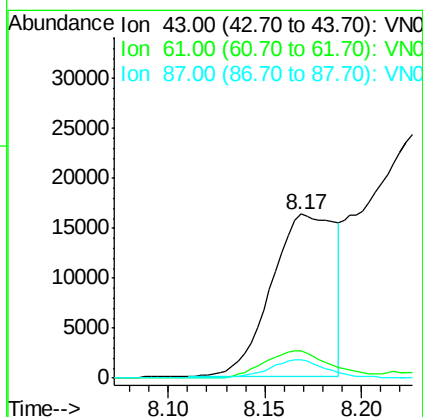
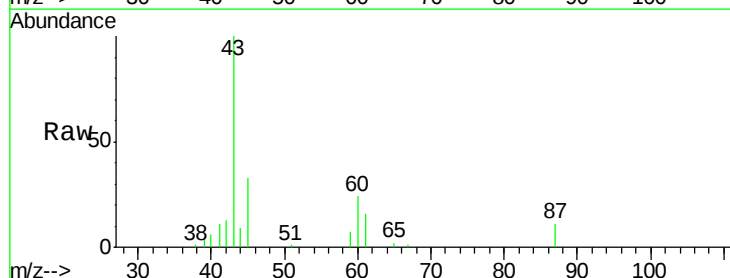
Instrument :
MSVOA_N
ClientSampleId :
PB116860ZHE#04

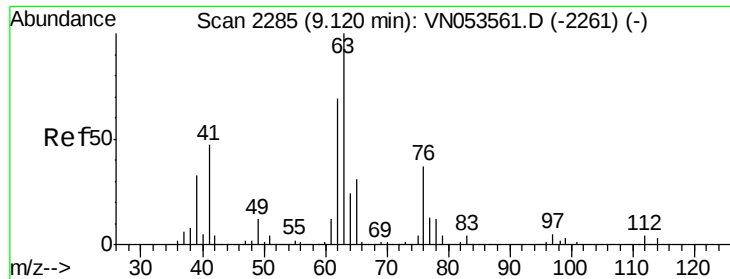
Tot Ion: 41 Resp: 863
Ion Ratio Lower Upper
41 100
39 17.7 46.8 70.2#
67 0.0 63.0 94.6#
52 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 2.983 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN053631.D
Acq: 6 Feb 2019 13:36

Tgt Ion: 43 Resp: 37099
Ion Ratio Lower Upper
43 100
61 17.4 23.9 35.9#
87 10.0 11.0 16.6#





#45

1,2-Dichloropropane

Concen: 0.226 ug/l

RT: 9.26 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN053631.D

Acq: 6 Feb 2019 13:36

Instrument :

MSVOA_N

ClientSampleId :

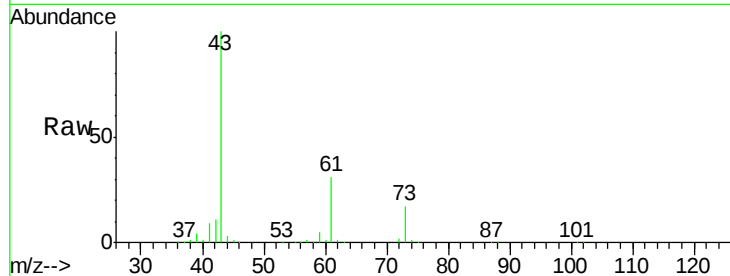
PB116860ZHE#04

Tot Ion: 63 Resp: 2053

Ion Ratio Lower Upper

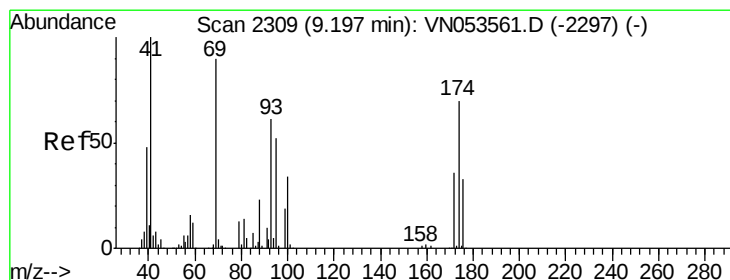
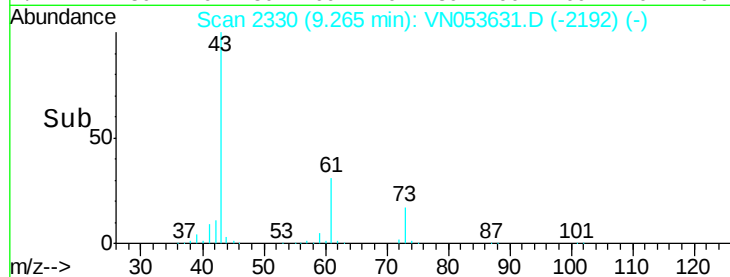
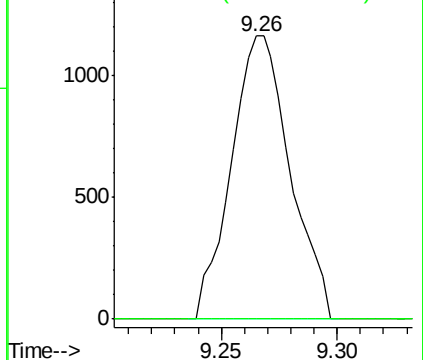
63 100

65 0.0 25.0 37.4#



Abundance Ion 62.90 (62.60 to 63.60): VNC

Ion 64.90 (64.60 to 65.60): VNC



#48

Methyl methacrylate

Concen: 1.682 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN053631.D

Acq: 6 Feb 2019 13:36

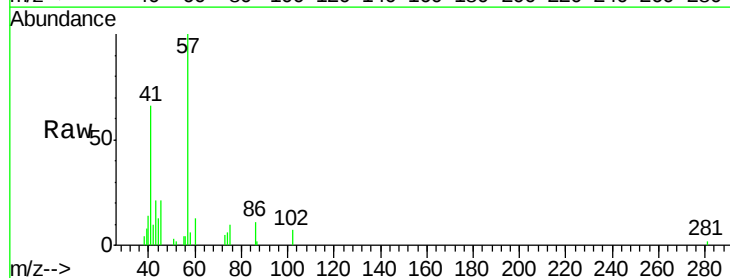
Tgt Ion: 41 Resp: 9987

Ion Ratio Lower Upper

41 100

69 0.0 73.8 110.6#

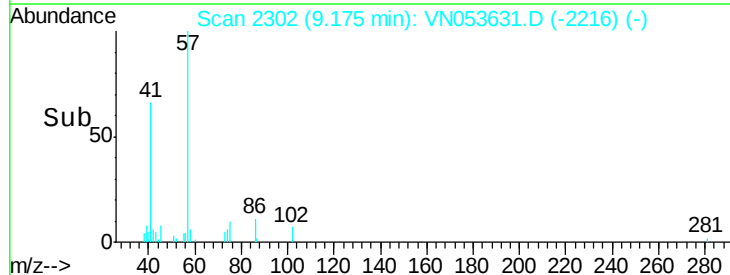
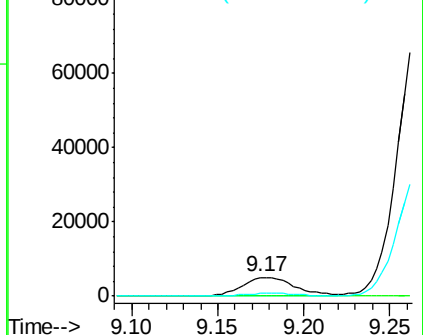
39 0.0 40.0 60.0#

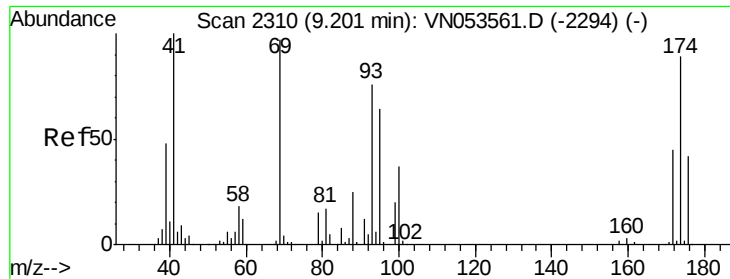


Abundance Ion 41.00 (40.70 to 41.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 39.00 (38.70 to 39.70): VNC





#49

1,4-Dioxane

Concen: 40.629 ug/l

RT: 9.26 min Scan# 2328

Delta R.T. 0.06 min

Lab File: VN053631.D

Acq: 6 Feb 2019 13:36

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#04

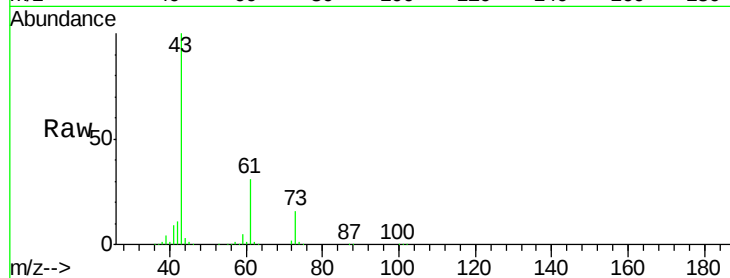
Tot Ion: 88 Resp: 137

Ion Ratio Lower Upper

88 100

43 1248071.5 27.8 41.6#

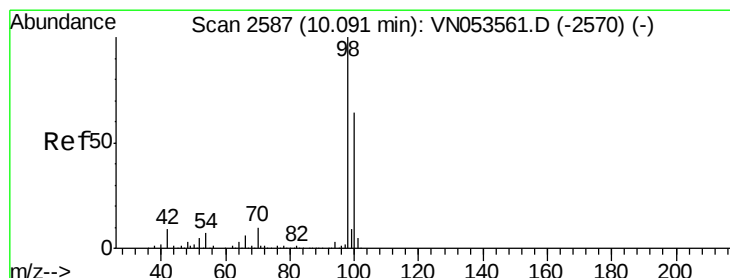
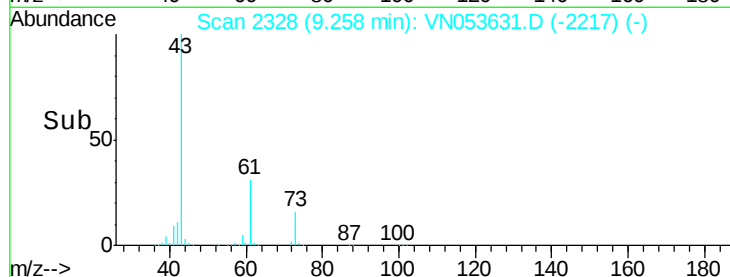
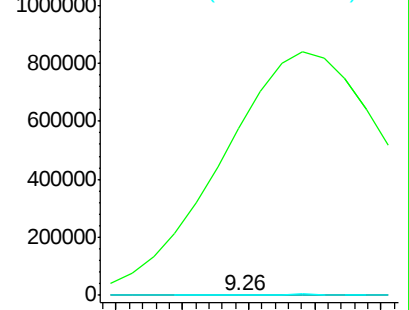
58 5856.2 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 40.629 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053631.D

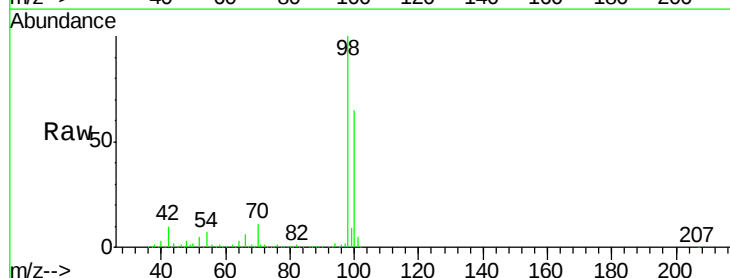
Acq: 6 Feb 2019 13:36

Tgt Ion: 98 Resp: 1532160

Ion Ratio Lower Upper

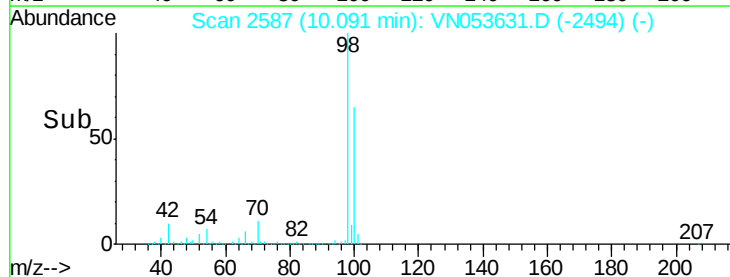
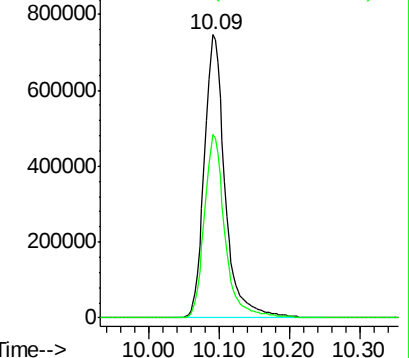
98 100

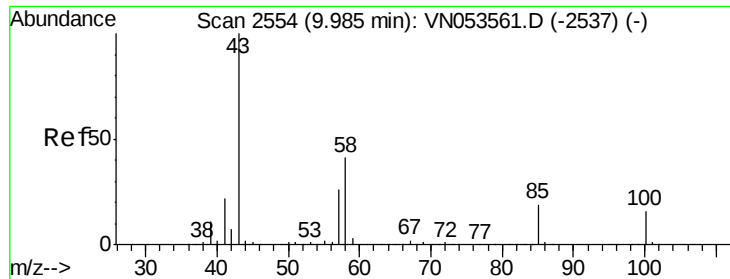
100 64.5 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.815 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053631.D

Acq: 6 Feb 2019 13:36

Instrument :

MSVOA_N

ClientSampleId :

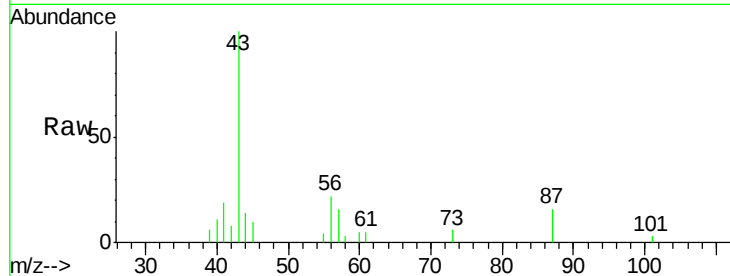
PB116860ZHE#04

Tot Ion: 43 Resp: 11091

Ion Ratio Lower Upper

43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.02

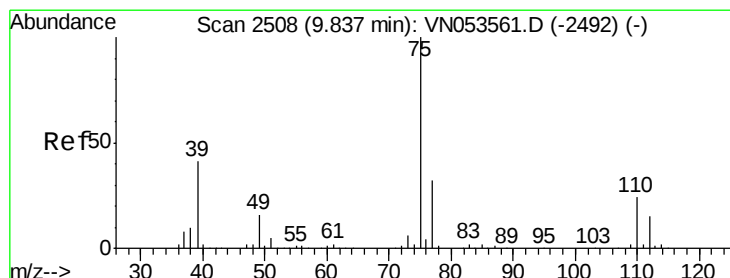
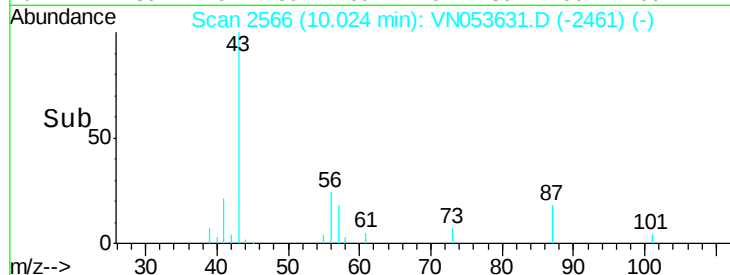
6000

4000

2000

0

Time-->



#54

cis-1,3-Dichloropropene

Concen: 6.144 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053631.D

Acq: 6 Feb 2019 13:36

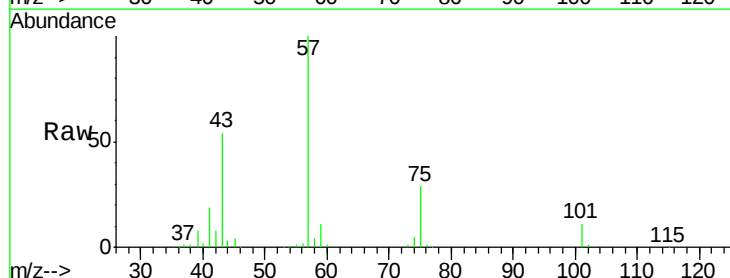
Tgt Ion: 75 Resp: 83090

Ion Ratio Lower Upper

75 100

77 0.4 25.8 38.6#

39 26.4 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

9.90

50000

40000

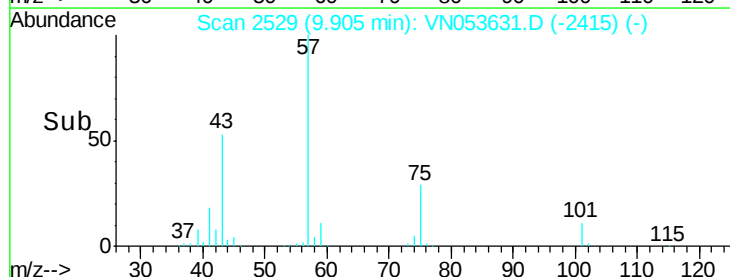
30000

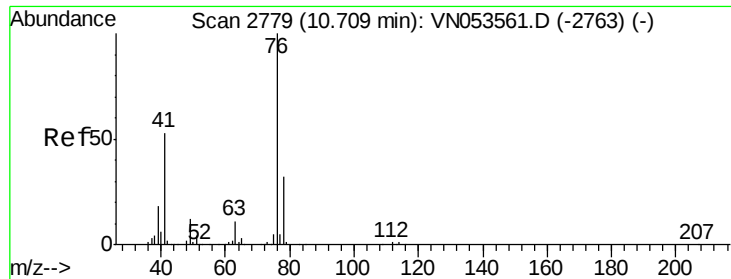
20000

10000

0

Time-->

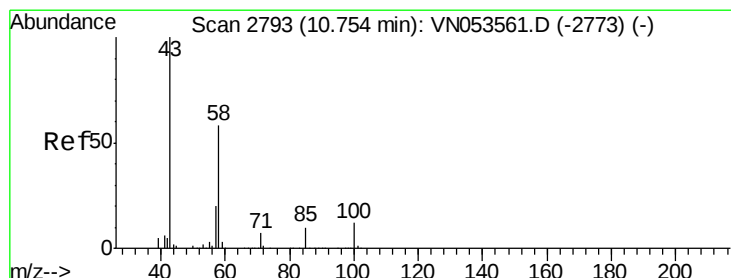
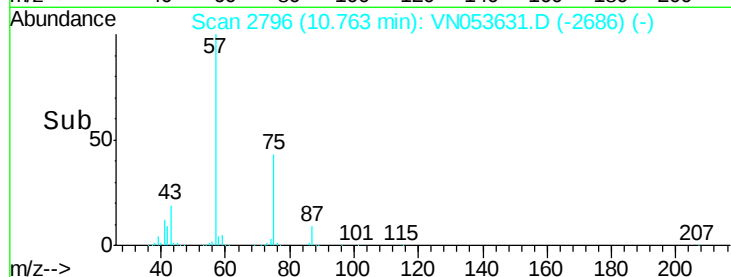
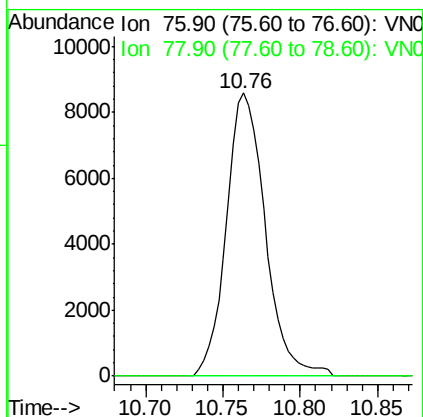
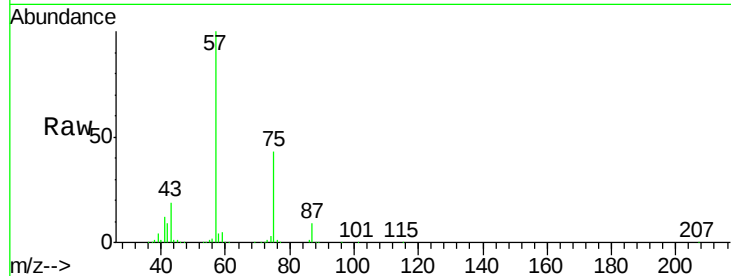




#57
 1,3-Dichloropropane
 Concen: 1.151 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.05 min
 Lab File: VN053631.D
 Acq: 6 Feb 2019 13:36

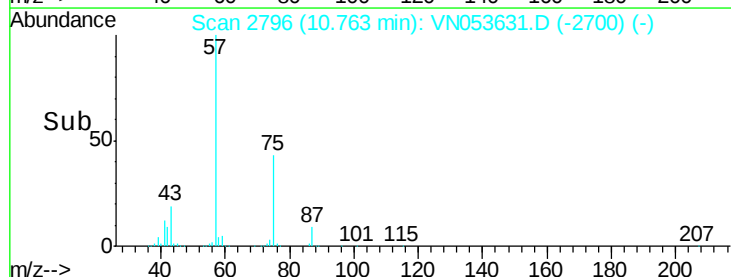
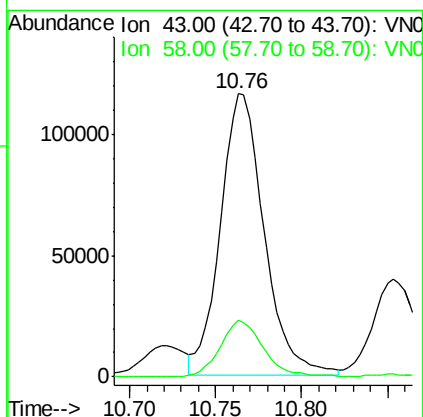
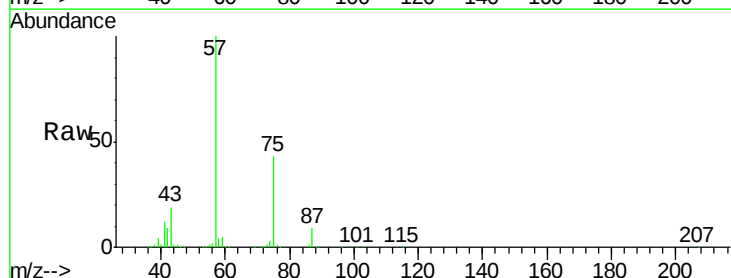
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#04

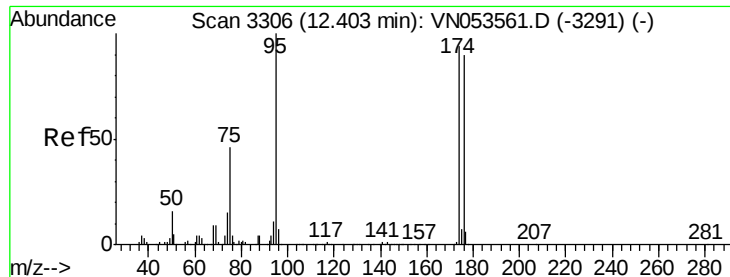
Tot Ion: 76 Resp: 14956
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 49.806 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN053631.D
 Acq: 6 Feb 2019 13:36

Tgt Ion: 43 Resp: 206617
 Ion Ratio Lower Upper
 43 100
 58 20.0 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN053631.D

Acq: 6 Feb 2019 13:36

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#04

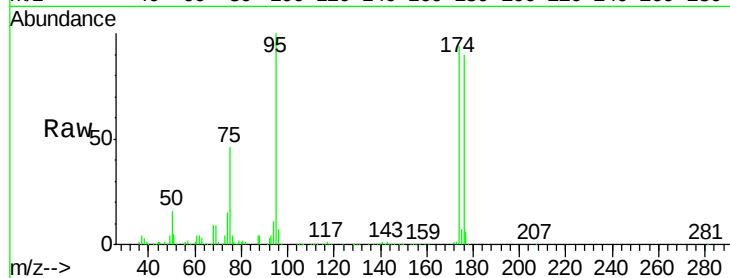
Tot Ion: 95 Resp: 514610

Ion Ratio Lower Upper

95 100

174 92.7 0.0 183.2

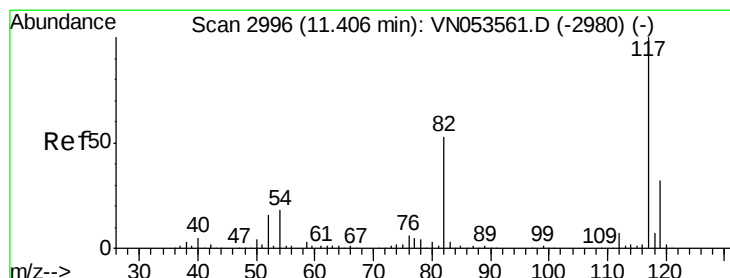
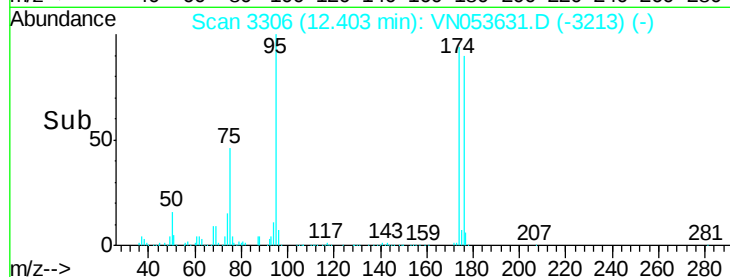
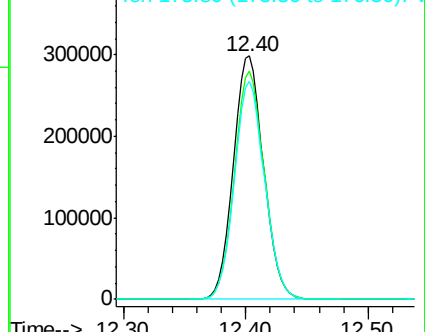
176 89.1 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053631.D (-3213) (-)

Ion 173.80 (173.50 to 174.50): VN053631.D (-3213) (-)

Ion 175.80 (175.50 to 176.50): VN053631.D (-3213) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053631.D

Acq: 6 Feb 2019 13:36

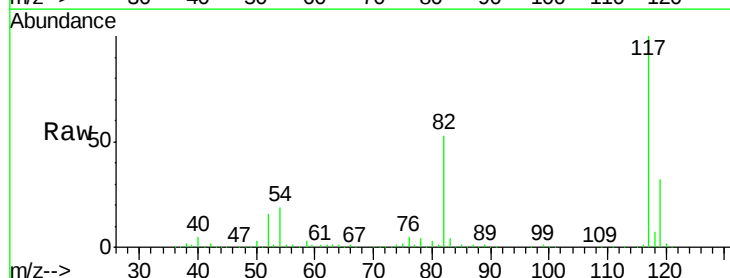
Tgt Ion: 117 Resp: 1165293

Ion Ratio Lower Upper

117 100

82 53.1 42.9 64.3

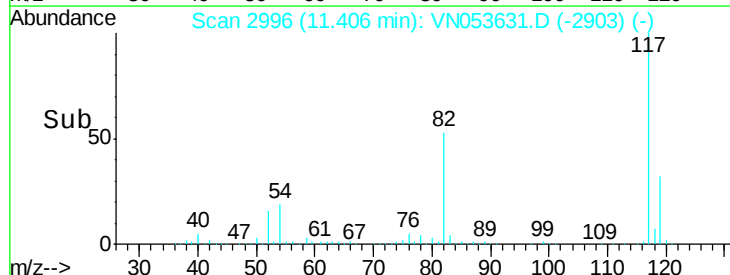
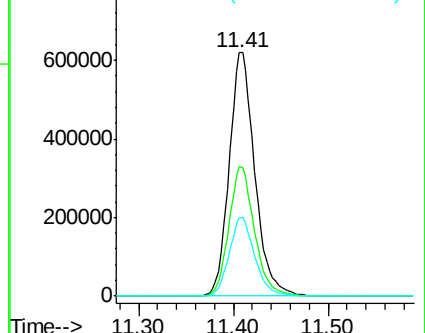
119 32.1 26.0 39.0

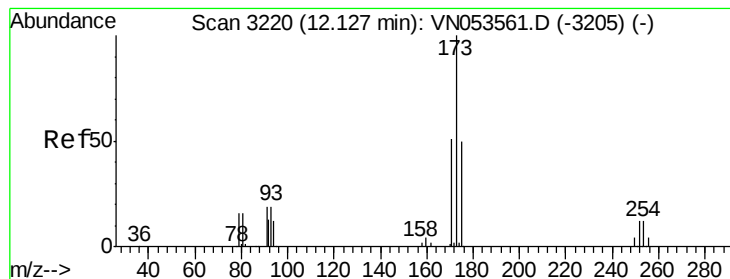


Abundance Ion 116.90 (116.60 to 117.60): VN053631.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN053631.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN053631.D (-2903) (-)





#71

Bromoform

Concen: 0.603 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053631.D

Acq: 6 Feb 2019 13:36

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#04

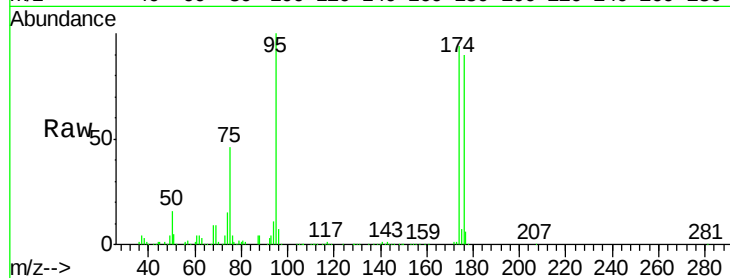
Tot Ion:173 Resp: 3574

Ion Ratio Lower Upper

173 100

175 812.4 24.6 74.0#

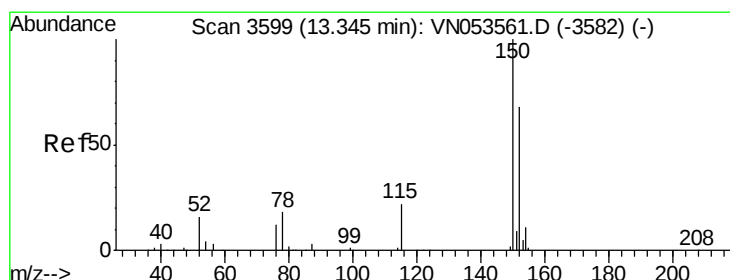
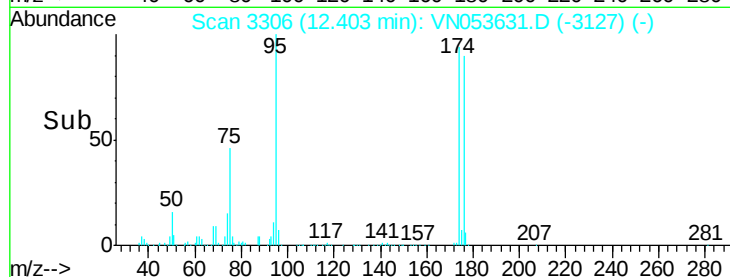
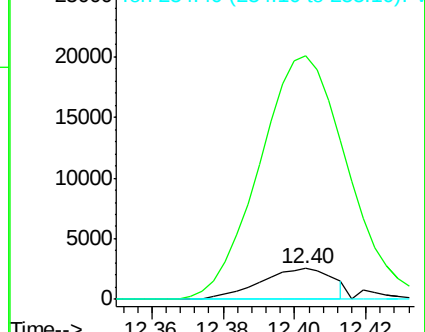
254 0.0 0.2 0.2#



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: VN053631.D

Acq: 6 Feb 2019 13:36

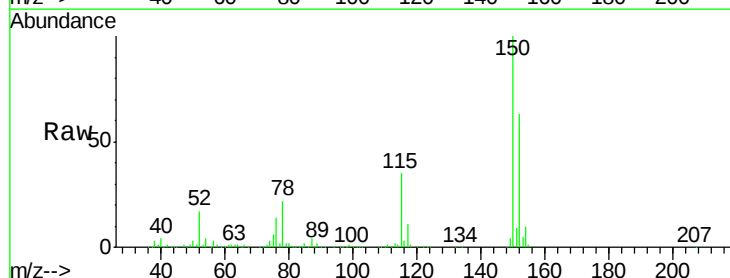
Tgt Ion:152 Resp: 489581

Ion Ratio Lower Upper

152 100

115 55.1 27.8 83.4

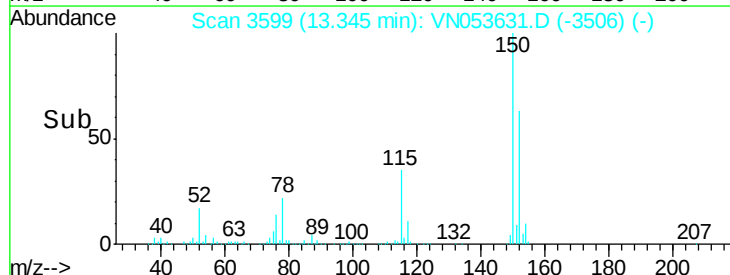
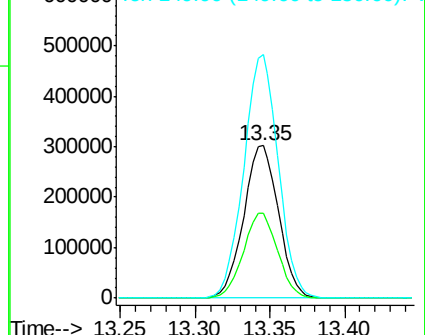
150 158.0 0.0 349.0

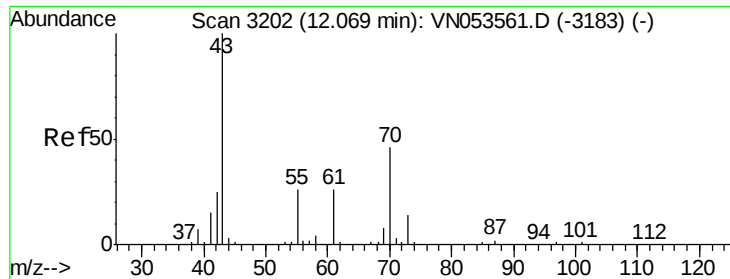


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 2.977 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053631.D

Acq: 6 Feb 2019 13:36

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#04

Tot Ion: 43 Resp: 24637

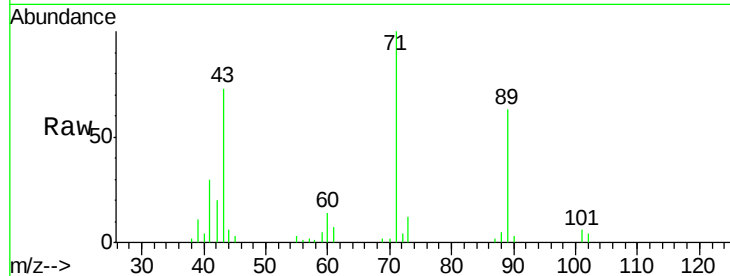
Ion Ratio Lower Upper

43 100

70 2.0 35.4 53.2#

55 4.4 20.9 31.3#

61 10.9 20.5 30.7#

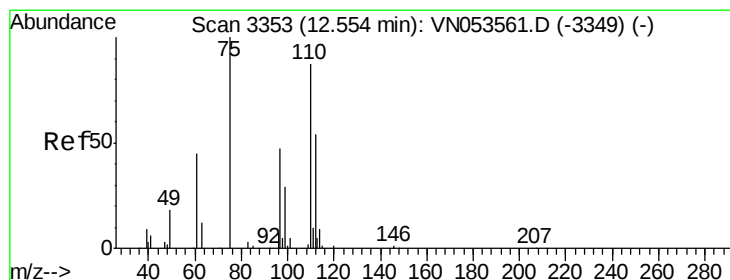
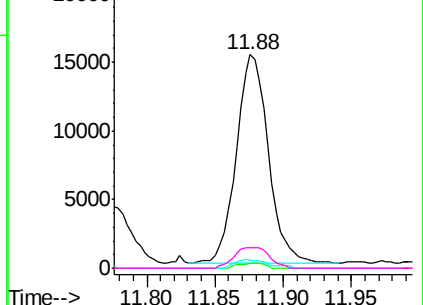
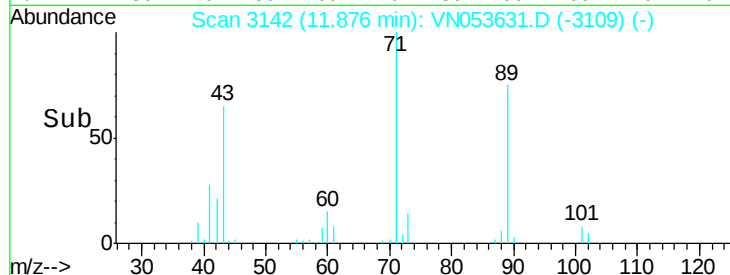


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 38.007 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN053631.D

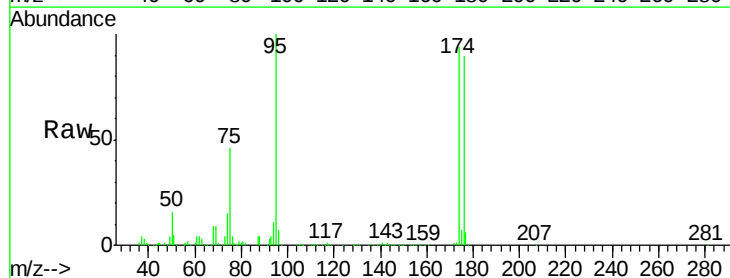
Acq: 6 Feb 2019 13:36

Tgt Ion: 75 Resp: 239001

Ion Ratio Lower Upper

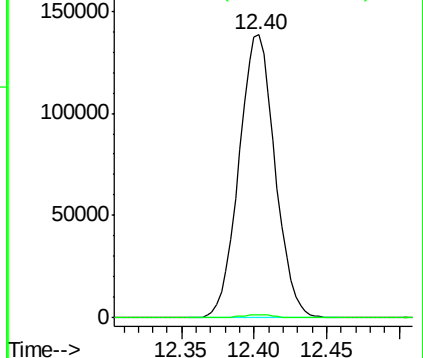
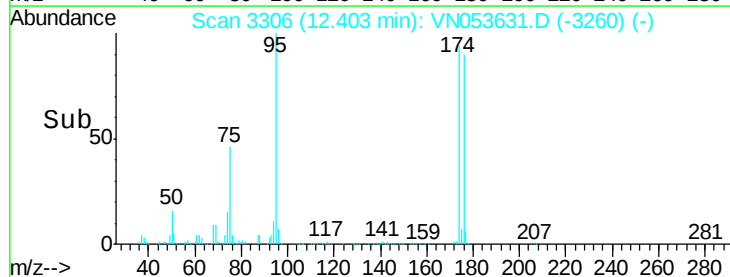
75 100

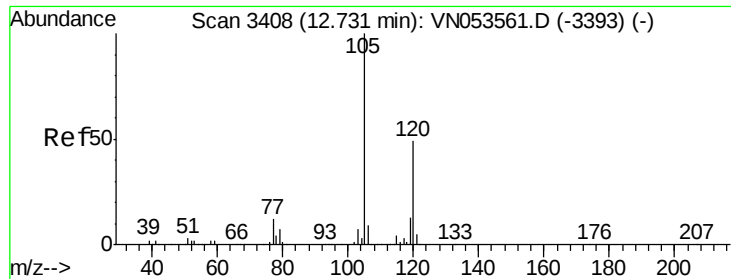
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

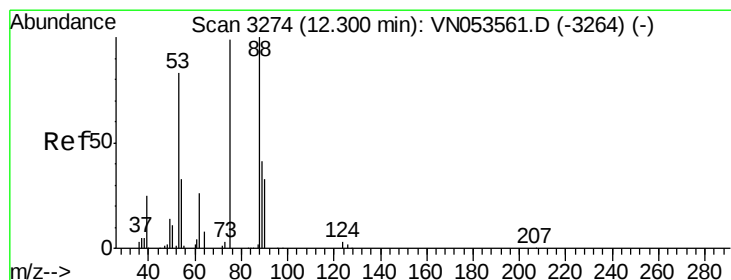
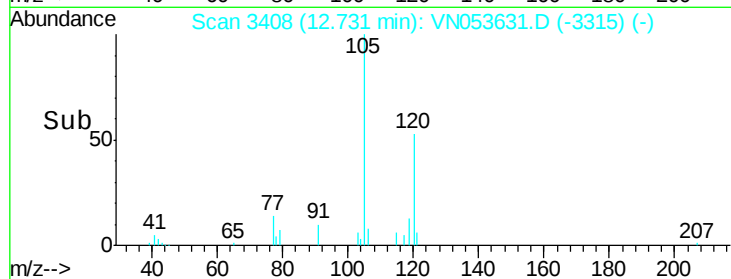
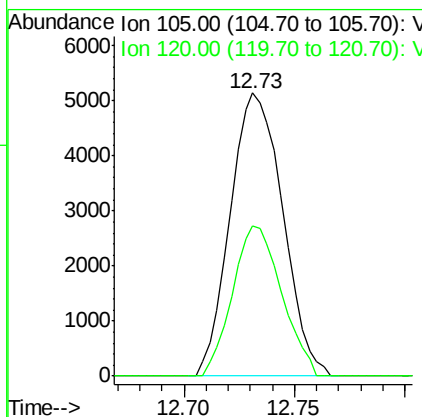
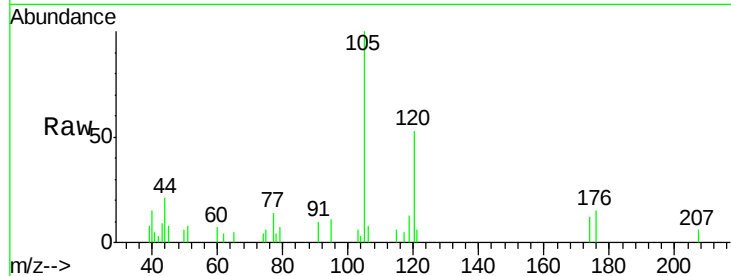




#80
 1,3,5-Trimethylbenzene
 Concen: 0.297 ug/l
 RT: 12.73 min Scan# 3408
 Delta R.T. 0.00 min
 Lab File: VN053631.D
 Acq: 6 Feb 2019 13:36

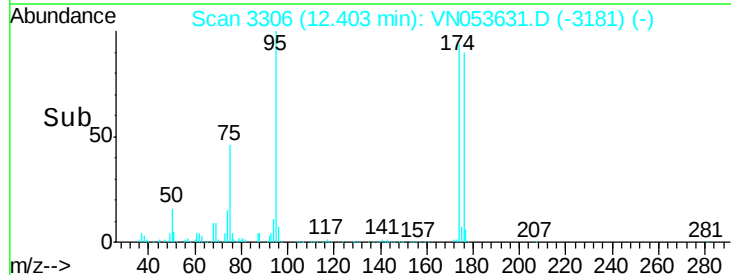
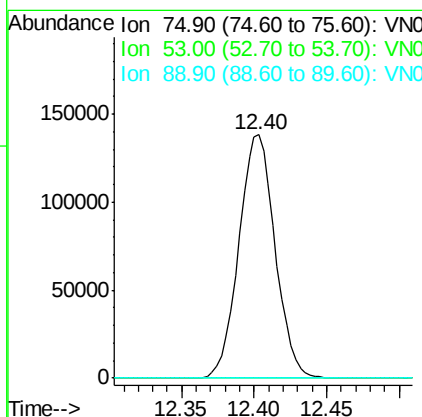
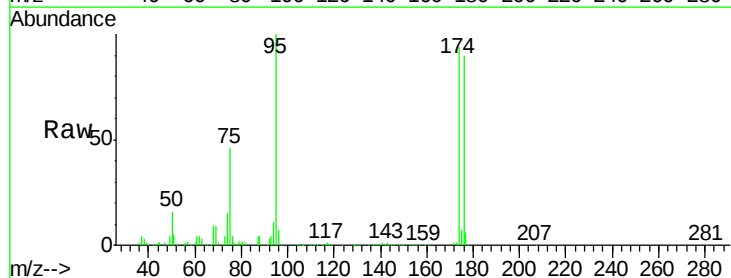
Instrument :
 MSVOA_N
 ClientSampleId :
 PB116860ZHE#04

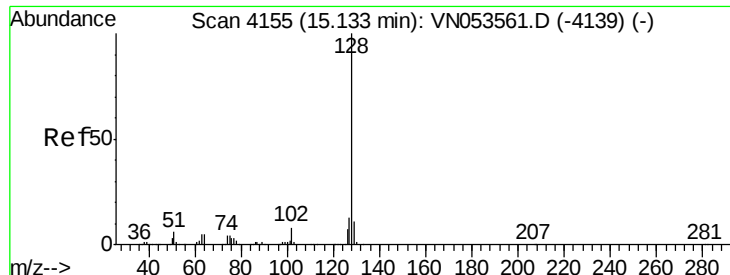
Tot Ion:105 Resp: 8480
 Ion Ratio Lower Upper
 105 100
 120 49.5 24.9 74.6



#81
 trans-1,4-Dichloro-2-butene
 Concen: 106.872 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN053631.D
 Acq: 6 Feb 2019 13:36

Tgt Ion: 75 Resp: 239001
 Ion Ratio Lower Upper
 75 100
 53 0.0 69.8 104.6#
 89 0.0 35.6 53.4#





#95

Naphthalene

Concen: 1.744 ug/l

RT: 15.12 min Scan# 4151

Delta R.T. -0.01 min

Lab File: VN053631.D

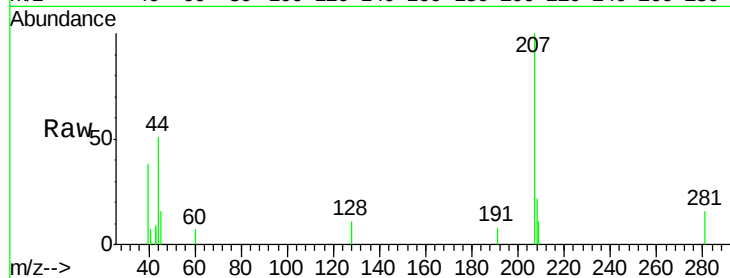
Acq: 6 Feb 2019 13:36

Instrument :

MSVOA_N

ClientSampleId :

PB116860ZHE#04



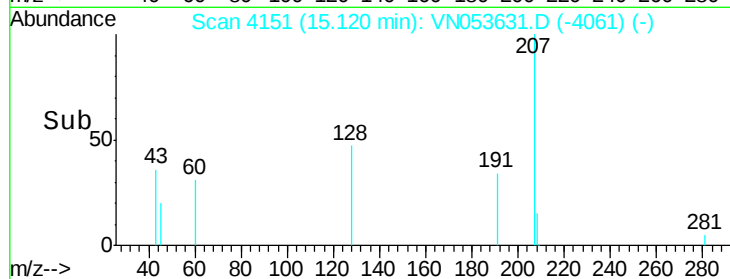
Tot Ion:128 Resp: 165

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 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

