

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054246.D
 Acq On : 14 Mar 2019 7:02
 Operator : JC/SP
 Sample : K1866-06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 14 08:56:38 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1369571	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2362965	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2473464	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	1068160	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	767163	52.74	ug/l	0.00
Spiked Amount			Recovery	=	105.48%	
35) Dibromofluoromethane	7.59	113	730128	47.91	ug/l	0.00
Spiked Amount			Recovery	=	95.82%	
50) Toluene-d8	10.09	98	2905865	51.63	ug/l	0.00
Spiked Amount			Recovery	=	103.26%	
62) 4-Bromofluorobenzene	12.40	95	1110721	56.40	ug/l	0.00
Spiked Amount			Recovery	=	112.80%	

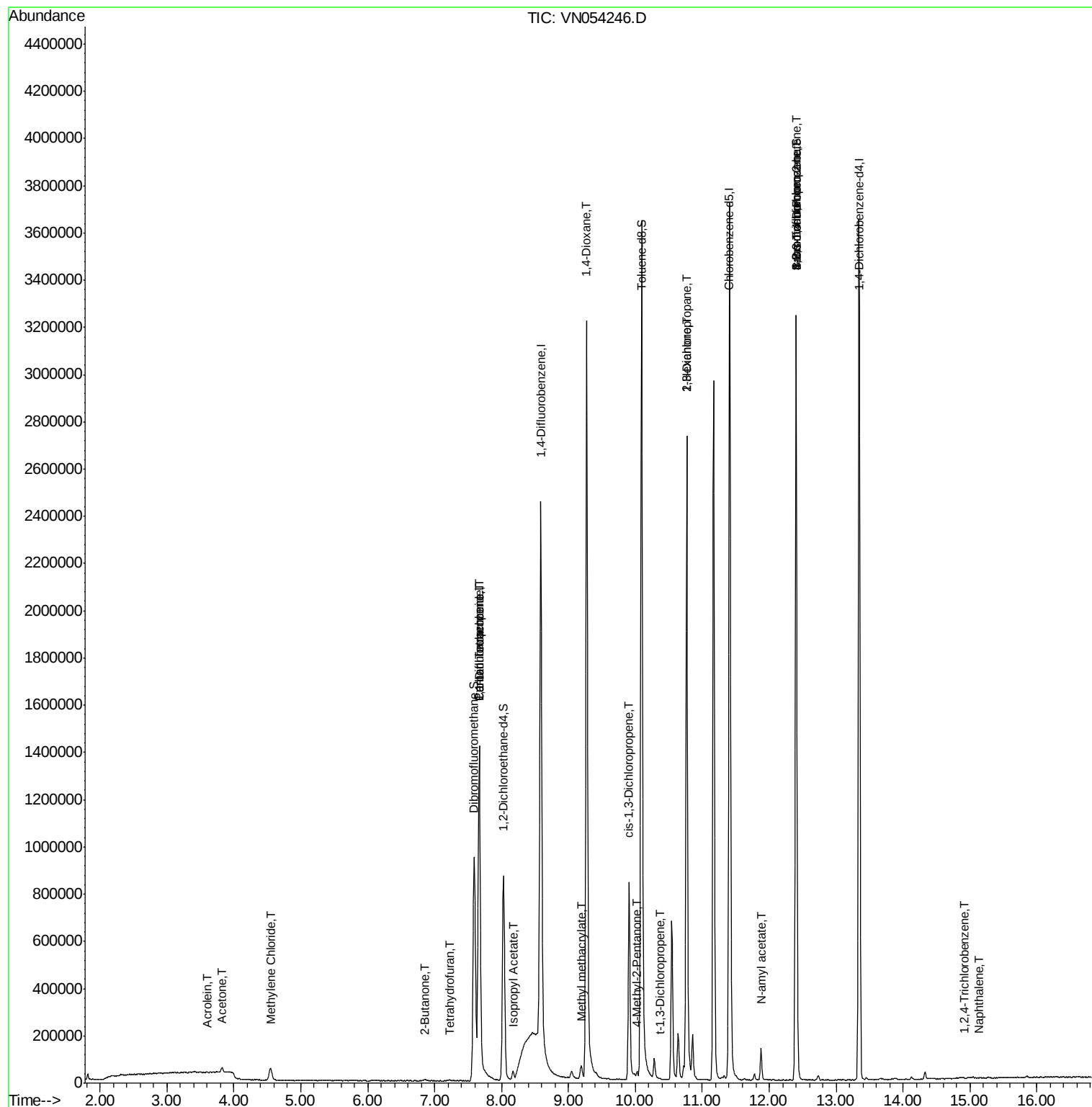
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.61	56	646	0.684	ug/l #	71
16) Acetone	3.82	43	33150	7.960	ug/l	92
20) Methylene Chloride	4.54	84	39365	2.879	ug/l	97
25) 2-Butanone	6.86	43	3886	0.795	ug/l	92
29) Tetrahydrofuran	7.22	42	2820	0.897	ug/l #	76
31) Cyclohexane	7.67	56	20547	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	79601	3.658	ug/l #	49
38) Carbon Tetrachloride	7.67	117	111971	4.907	ug/l #	16
43) Isopropyl Acetate	8.17	43	44779	2.040	ug/l	97
48) Methyl methacrylate	9.18	41	18414	1.653	ug/l #	11
49) 1,4-Dioxane	9.27	88	120	0.762	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	20573	1.771	ug/l #	36
53) t-1,3-Dichloropropene	10.37	75	220	1.995	ug/l #	64
54) cis-1,3-Dichloropropene	9.91	75	172509	7.068	ug/l #	62
57) 1,3-Dichloropropane	10.77	76	29728	1.261	ug/l #	43
59) 2-Hexanone	10.77	43	402632	52.098	ug/l #	50
71) Bromoform	12.40	173	7147	2.804	ug/l #	1
74) N-amyl acetate	11.88	43	40818	2.152	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	530454	33.770	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	530454	115.441	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.92	180	479	2.537	ug/l	84
95) Naphthalene	15.13	128	1324	3.496	ug/l #	69

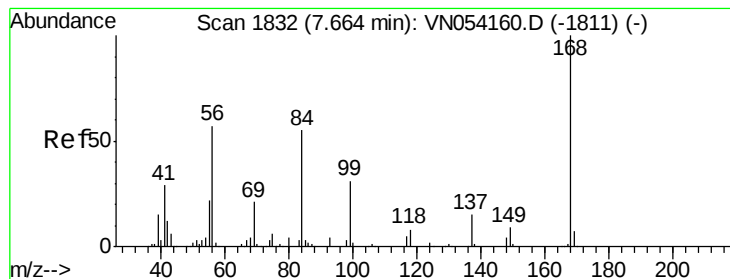
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Mar 14 08:56:38 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 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: VN054246.D

Acq: 14 Mar 2019 7:02

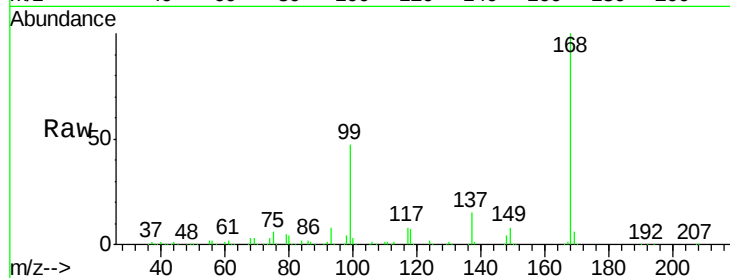
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1369571

Ion Ratio Lower Upper

168 100

99 47.0 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

600000

500000

400000

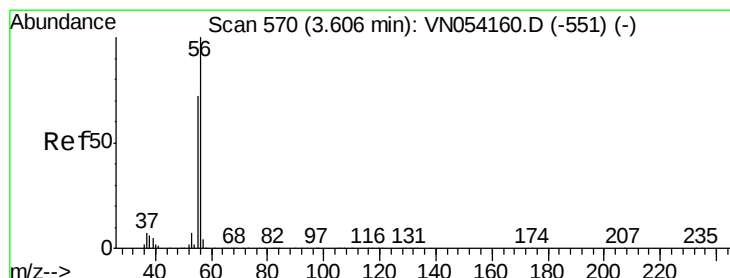
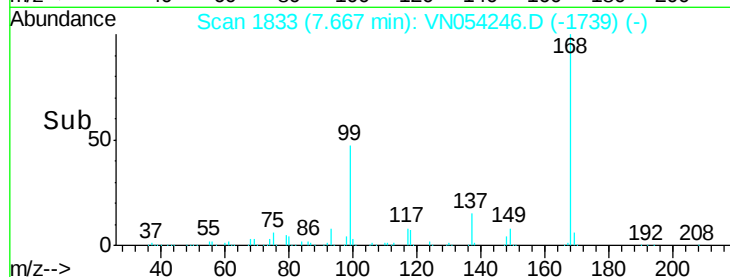
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.684 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN054246.D

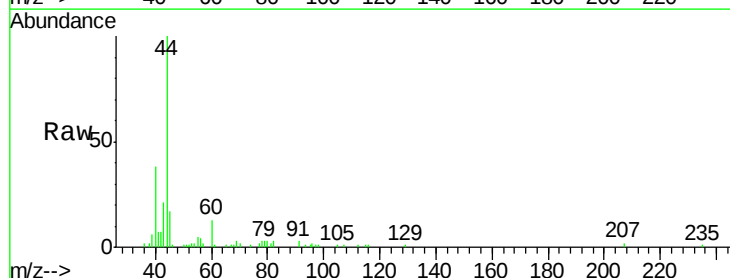
Acq: 14 Mar 2019 7:02

Tgt Ion: 56 Resp: 646

Ion Ratio Lower Upper

56 100

55 47.1 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

1000

800

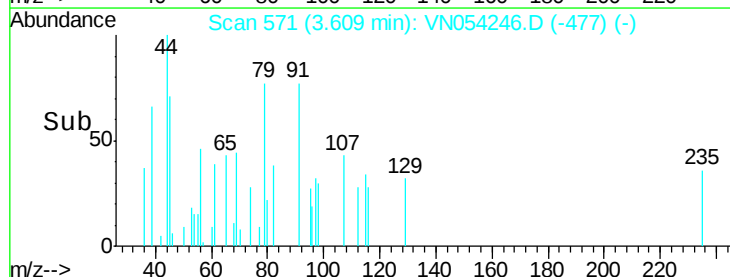
600

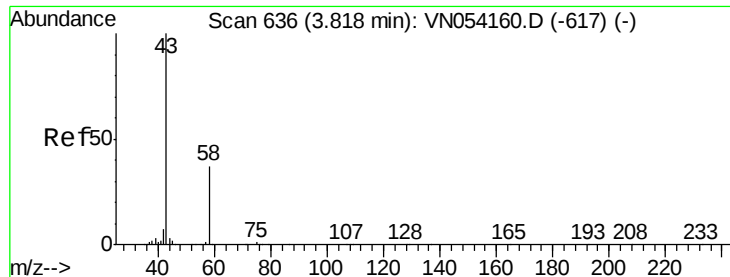
400

200

0

Time-->





#16

Acetone

Concen: 7.960 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054246.D

Acq: 14 Mar 2019 7:02

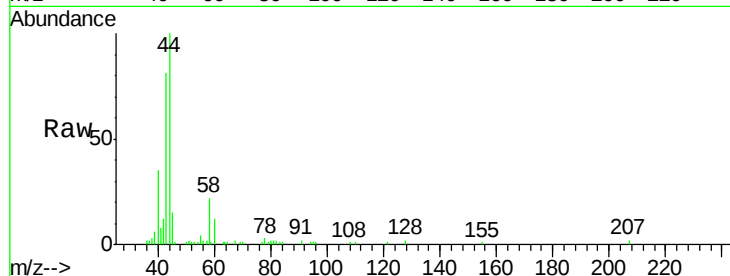
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 43 Resp: 33150

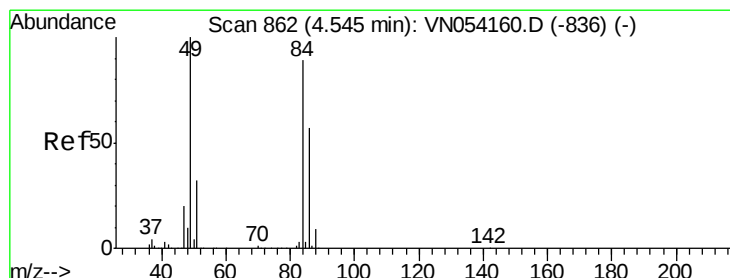
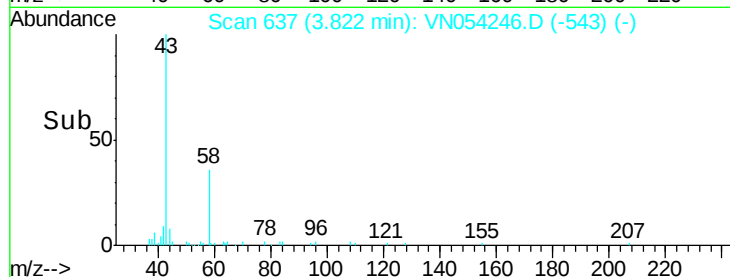
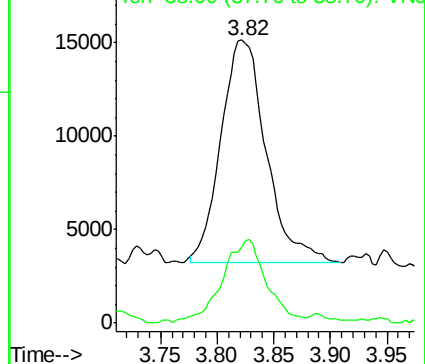
Ion Ratio Lower Upper

43 100

58 32.7 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO



#20

Methylene Chloride

Concen: 2.879 ug/l

RT: 4.54 min Scan# 861

Delta R.T. -0.00 min

Lab File: VN054246.D

Acq: 14 Mar 2019 7:02

Tgt Ion: 84 Resp: 39365

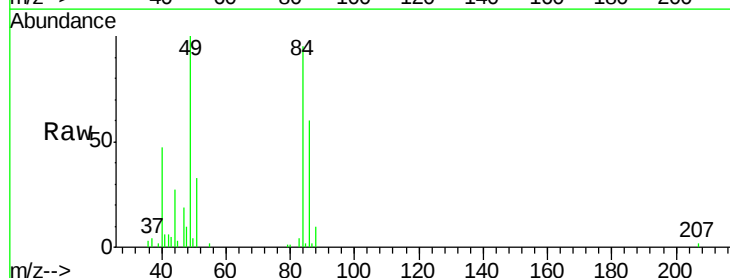
Ion Ratio Lower Upper

84 100

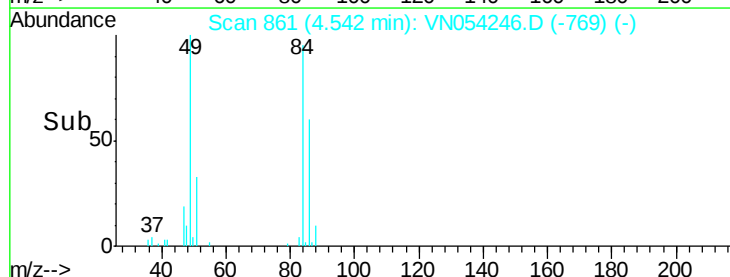
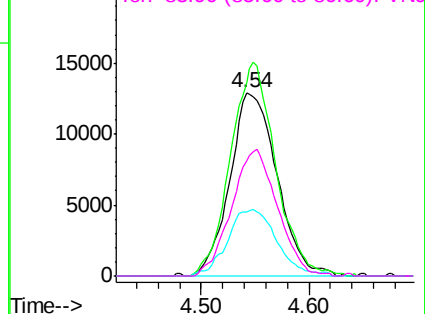
49 105.8 89.7 134.5

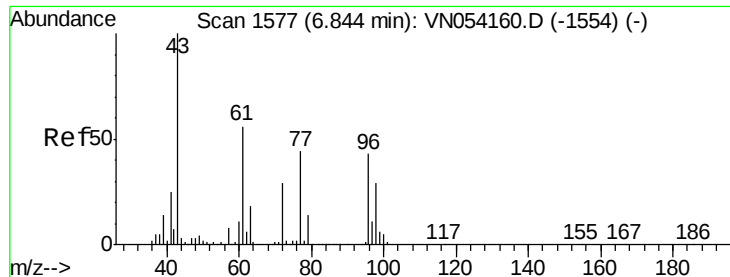
51 34.9 28.2 42.4

86 63.0 50.8 76.2



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

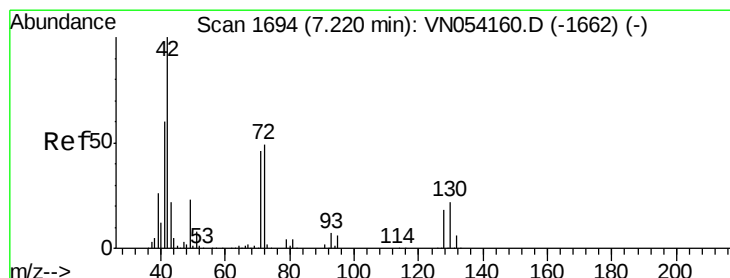
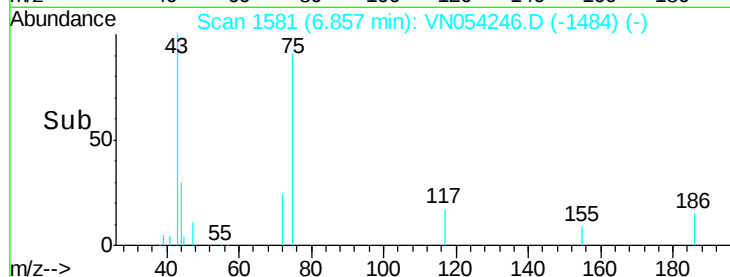
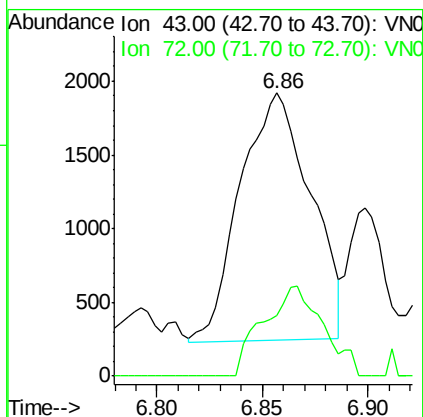
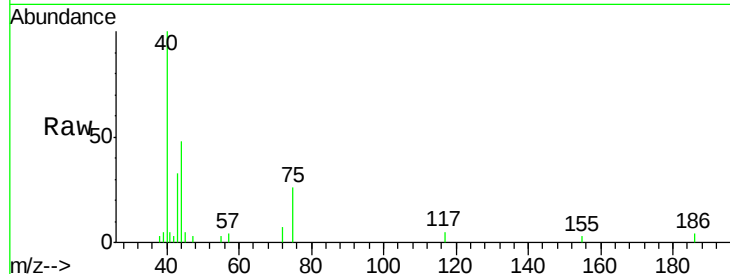




#25
2-Butanone
Concen: 0.795 ug/l
RT: 6.86 min Scan# 1581
Delta R.T. 0.01 min
Lab File: VN054246.D
Acq: 14 Mar 2019 7:02

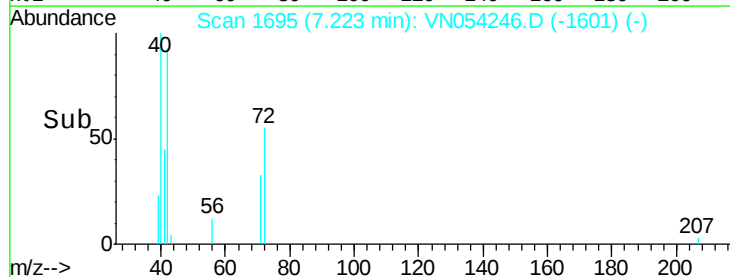
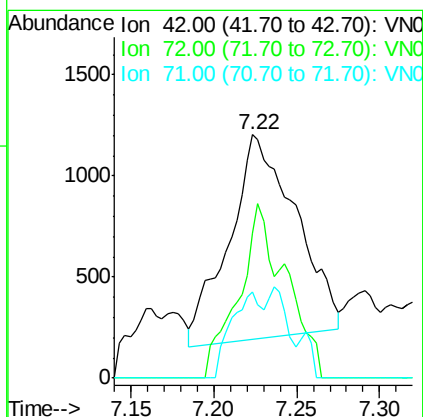
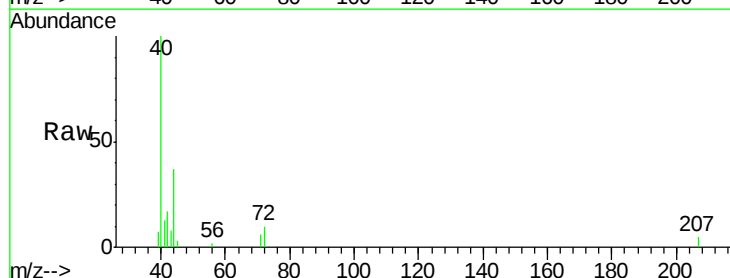
Instrument :
MSVOA_N
ClientSampled :

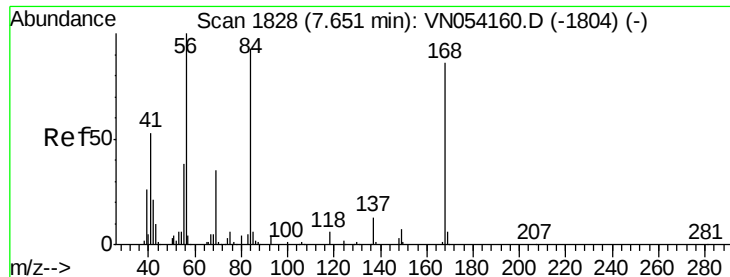
Tot Ion: 43 Resp: 3886
Ion Ratio Lower Upper
43 100
72 24.5 23.0 34.6



#29
Tetrahydrofuran
Concen: 0.897 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054246.D
Acq: 14 Mar 2019 7:02

Tgt Ion: 42 Resp: 2820
Ion Ratio Lower Upper
42 100
72 40.8 37.8 56.6
71 19.6 36.2 54.2#

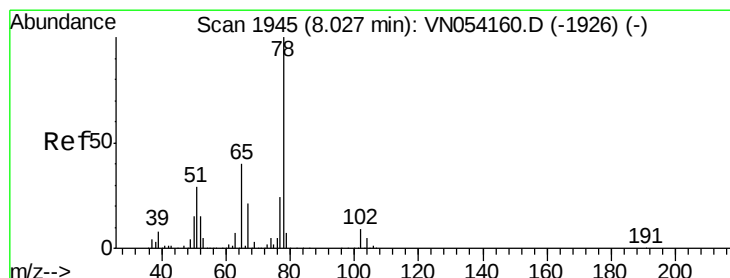
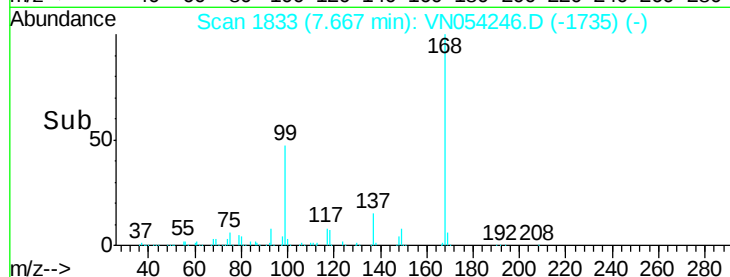
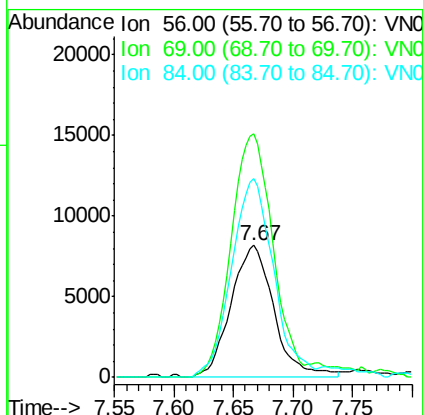
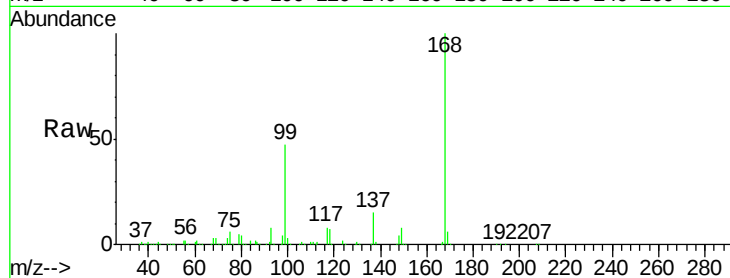




#31
Cyclohexane
Concen: Below Cal
RT: 7.67 min Scan# 1833
Delta R.T. 0.02 min
Lab File: VN054246.D
Acq: 14 Mar 2019 7:02

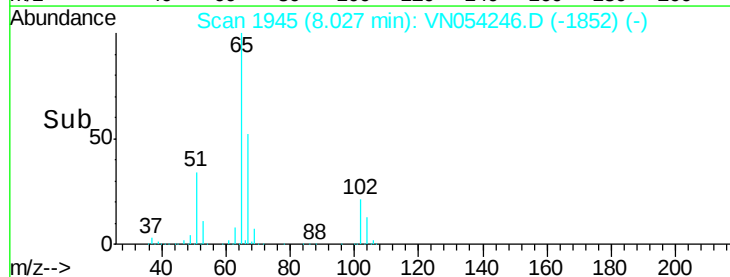
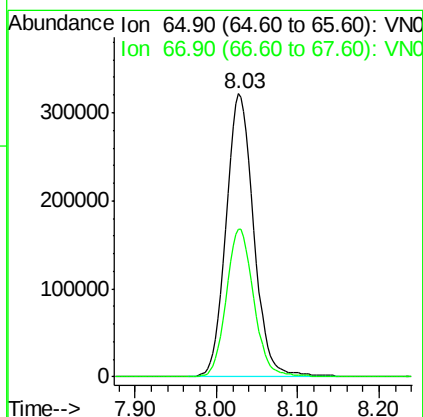
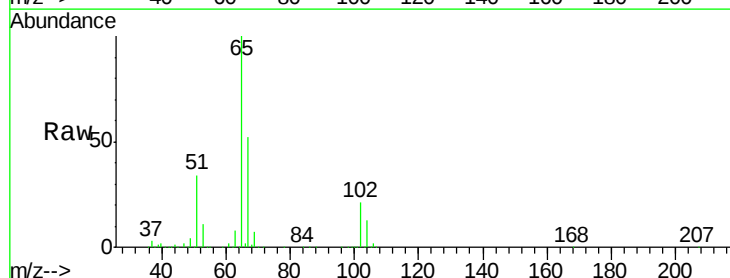
Instrument :
MSVOA_N
ClientSampled :

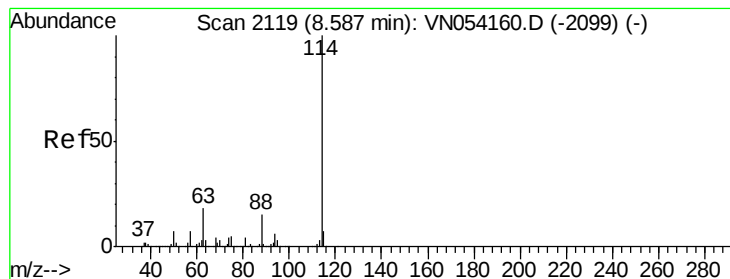
Tot Ion: 56 Resp: 20547
Ion Ratio Lower Upper
56 100
69 184.7 27.8 41.6#
84 150.9 74.6 111.8#



#33
1,2-Dichloroethane-d4
Concen: 52.745 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN054246.D
Acq: 14 Mar 2019 7:02

Tgt Ion: 65 Resp: 767163
Ion Ratio Lower Upper
65 100
67 51.7 0.0 104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054246.D

Acq: 14 Mar 2019 7:02

Instrument :

MSVOA_N

ClientSampled :

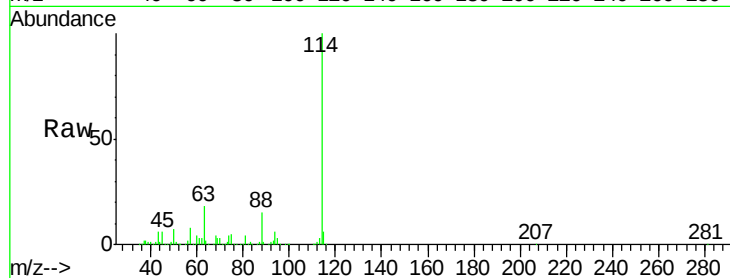
Tot Ion:114 Resp: 2362965

Ion Ratio Lower Upper

114 100

63 18.0 0.0 35.2

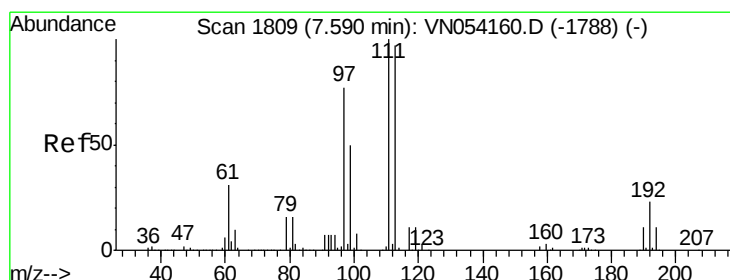
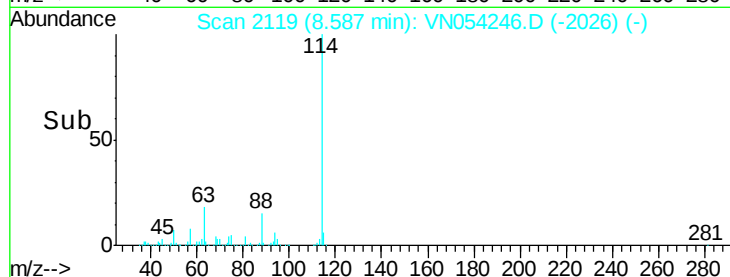
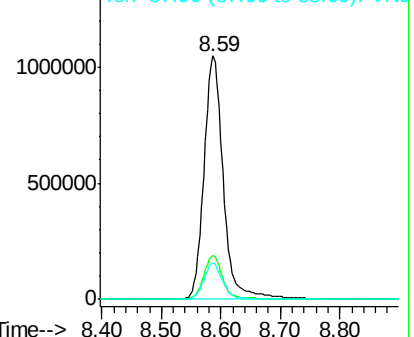
88 15.1 0.0 30.2



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: 47.908 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054246.D

Acq: 14 Mar 2019 7:02

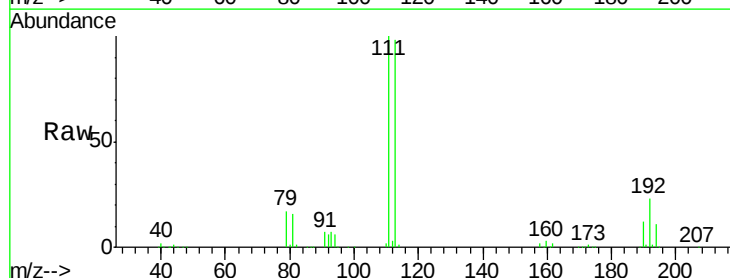
Tgt Ion:113 Resp: 730128

Ion Ratio Lower Upper

113 100

111 101.5 82.2 123.4

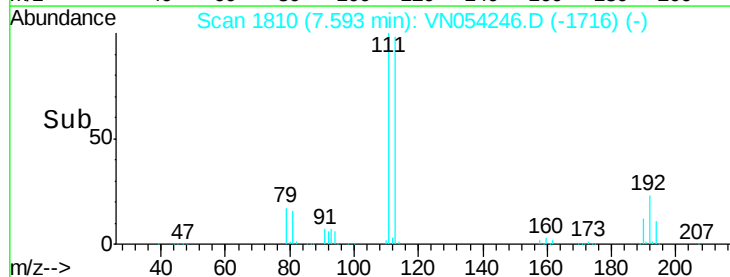
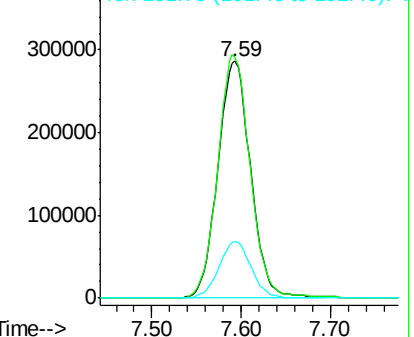
192 23.6 19.2 28.8

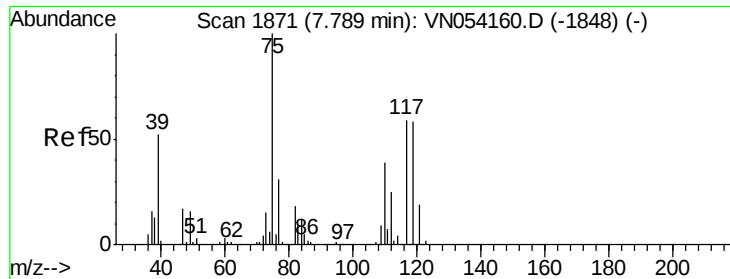


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

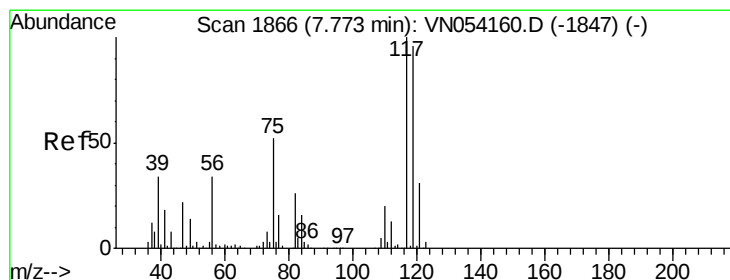
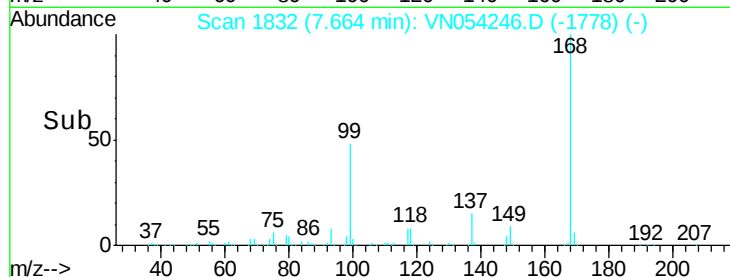
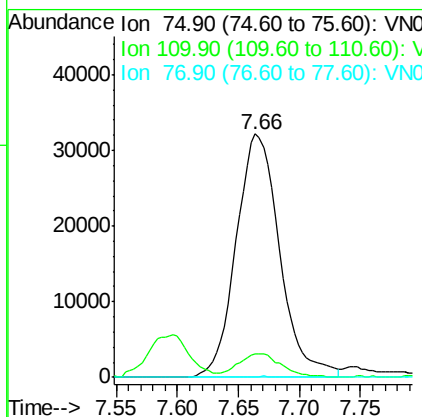
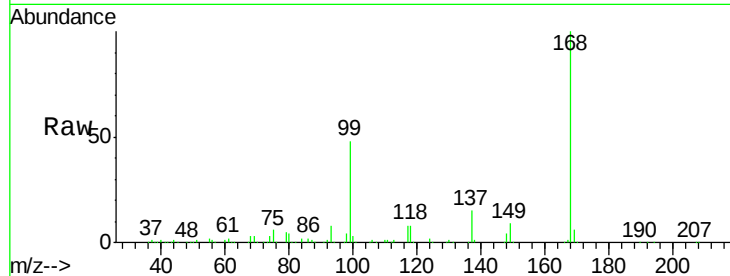




#36
 1,1-Dichloropropene
 Concen: 3.658 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054246.D
 Acq: 14 Mar 2019 7:02

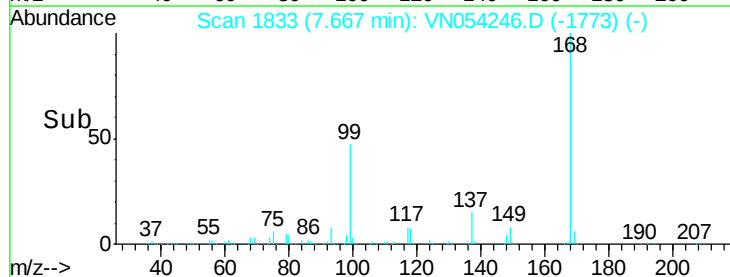
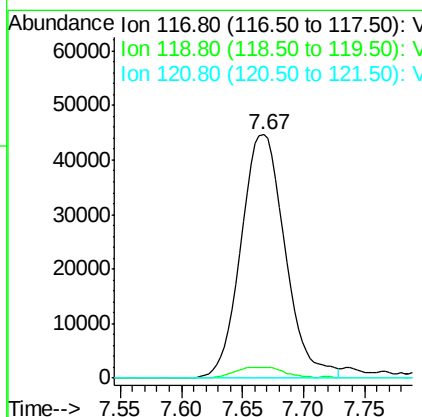
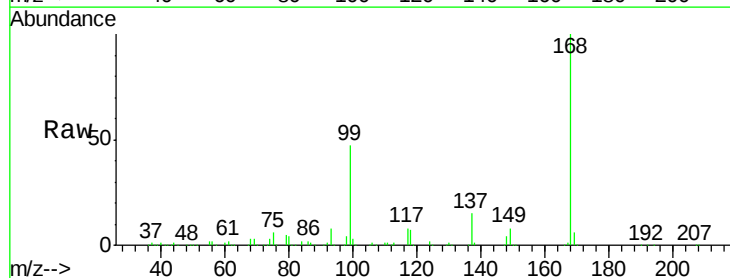
Instrument :
 MSVOA_N
 ClientSampled :

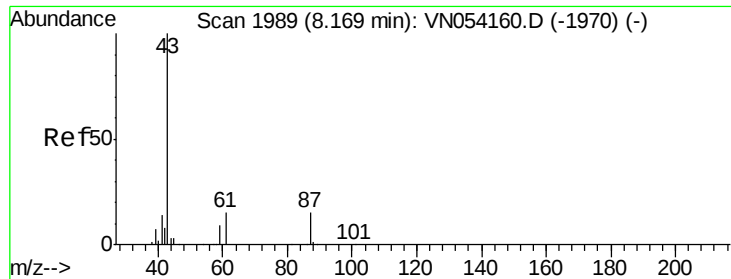
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.6	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 4.907 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054246.D
 Acq: 14 Mar 2019 7:02

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.4	76.3	114.5#
121	0.0	24.6	36.8#



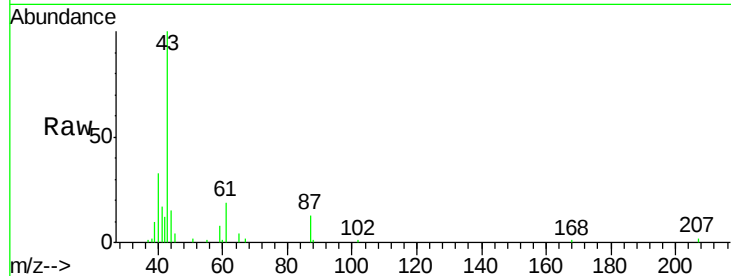


#43

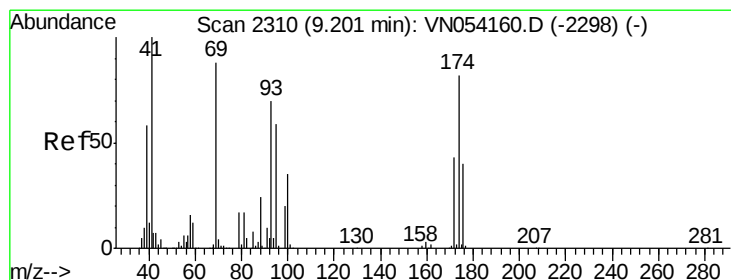
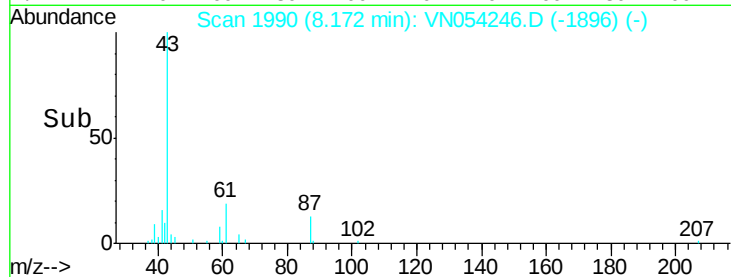
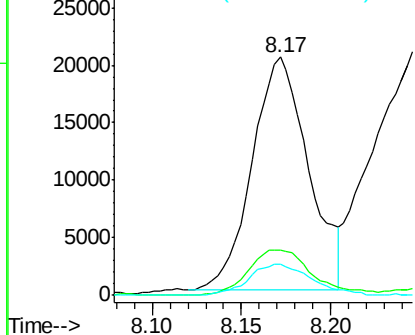
Isopropyl Acetate
 Concen: 2.040 ug/l
 RT: 8.17 min Scan# 1990
 Delta R.T. 0.00 min
 Lab File: VN054246.D
 Acq: 14 Mar 2019 7:02

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion: 43 Resp: 44779
 Ion Ratio Lower Upper
 43 100
 61 22.0 15.8 23.8
 87 14.8 12.0 18.0



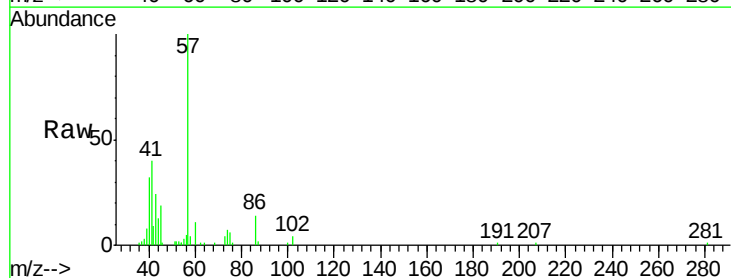
Abundance Ion 43.00 (42.70 to 43.70): VNC
 Ion 61.00 (60.70 to 61.70): VNC
 Ion 87.00 (86.70 to 87.70): VNC



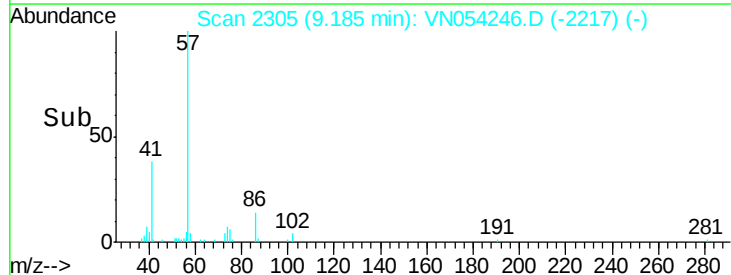
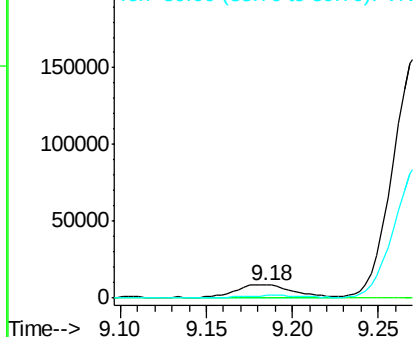
#48

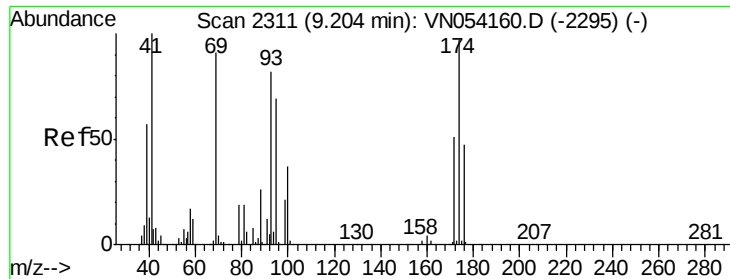
Methyl methacrylate
 Concen: 1.653 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN054246.D
 Acq: 14 Mar 2019 7:02

Tgt Ion: 41 Resp: 18414
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.6 108.8#
 39 0.0 47.5 71.3#



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: 0.762 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN054246.D

Acq: 14 Mar 2019 7:02

Instrument :
MSVOA_N
ClientSampled :

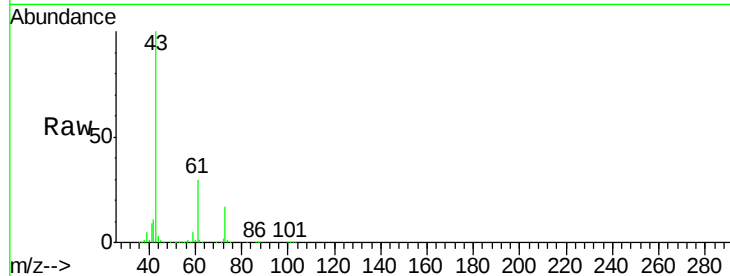
Tot Ion: 88 Resp: 120

Ion Ratio Lower Upper

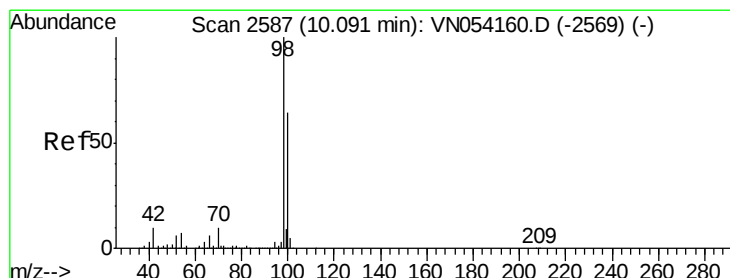
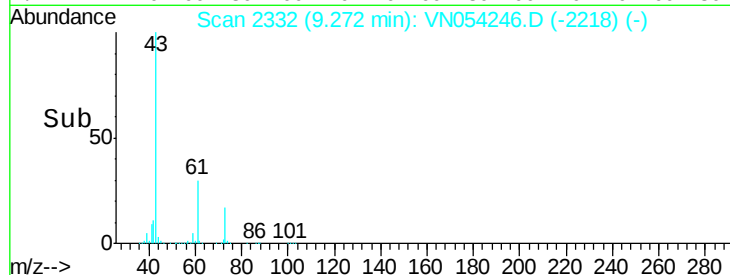
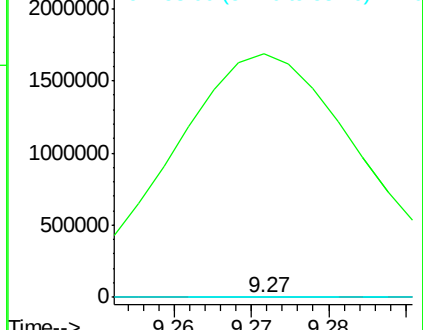
88 100

43 2747555.8 24.1 36.1#

58 10570.8 50.8 76.2#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC



#50

Toluene-d8

Concen: 51.629 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054246.D

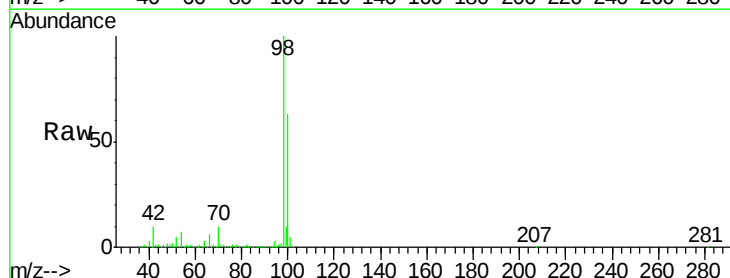
Acq: 14 Mar 2019 7:02

Tgt Ion: 98 Resp: 2905865

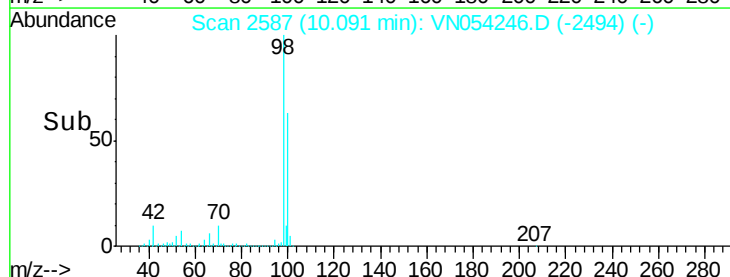
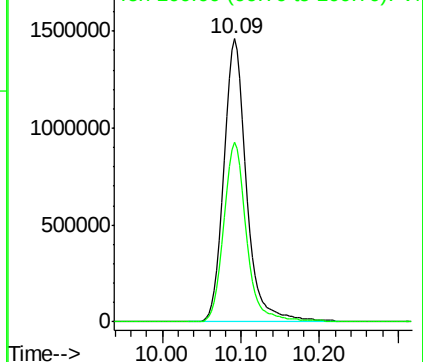
Ion Ratio Lower Upper

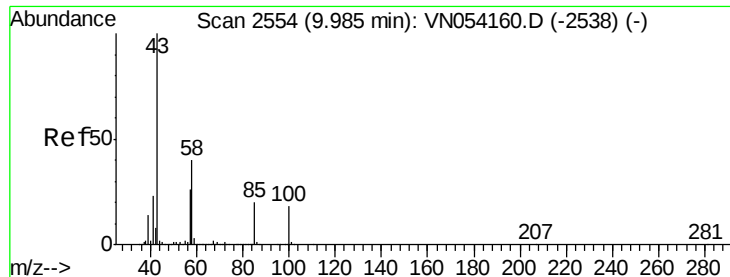
98 100

100 64.1 51.2 76.8



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





#51

4-Methyl-2-Pentanone

Concen: 1.771 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054246.D

Acq: 14 Mar 2019 7:02

Instrument :

MSVOA_N

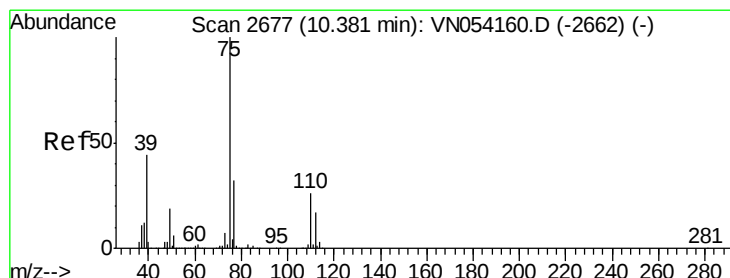
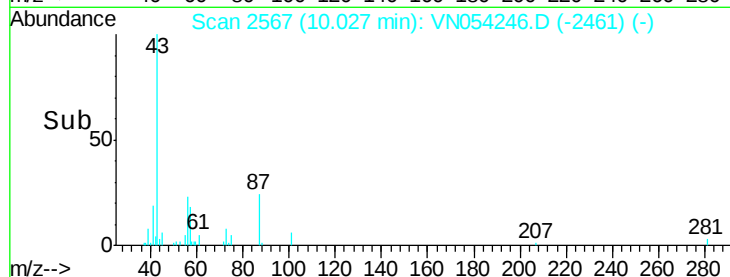
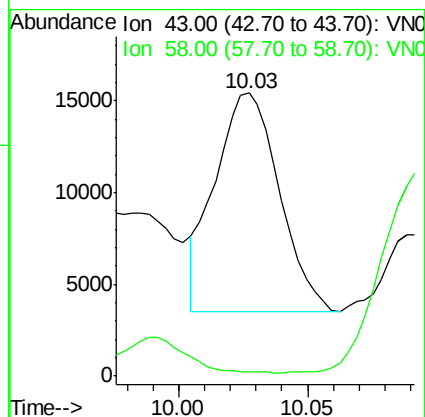
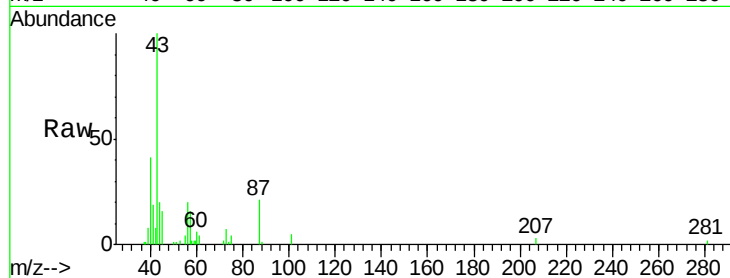
ClientSampled :

Tot Ion: 43 Resp: 20573

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



#53

t-1,3-Dichloropropene

Concen: 1.995 ug/l

RT: 10.37 min Scan# 2674

Delta R.T. -0.01 min

Lab File: VN054246.D

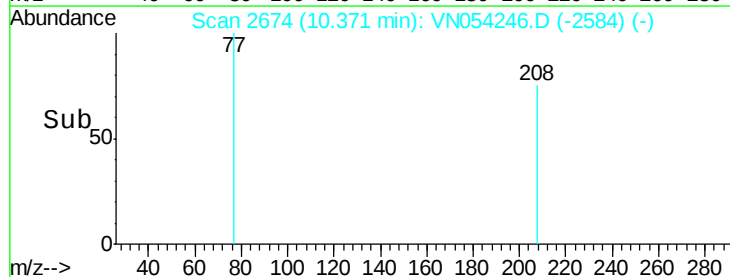
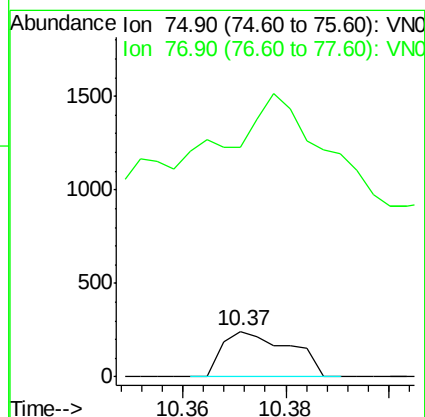
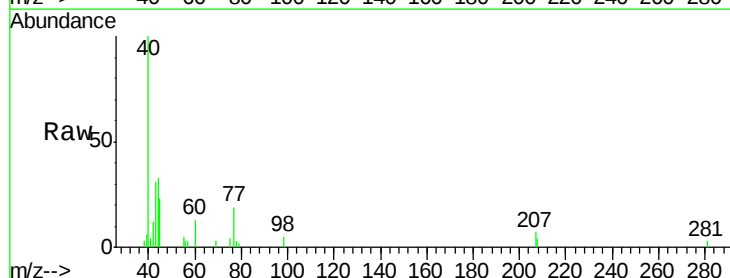
Acq: 14 Mar 2019 7:02

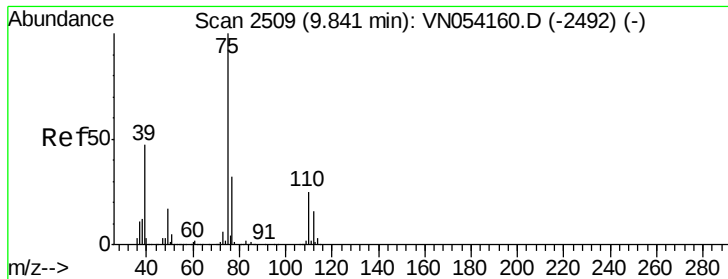
Tgt Ion: 75 Resp: 220

Ion Ratio Lower Upper

75 100

77 12.2 25.8 38.8#



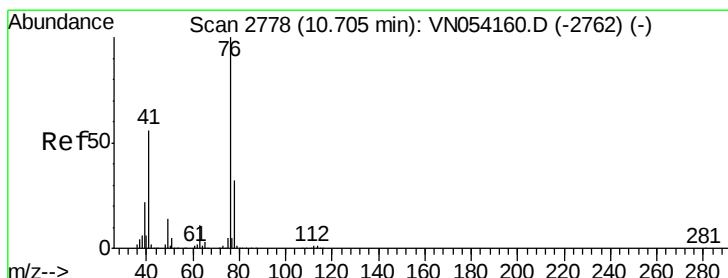
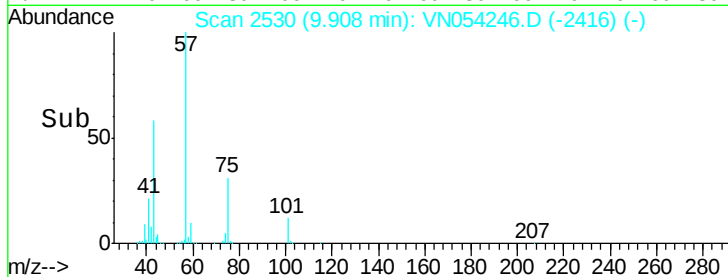
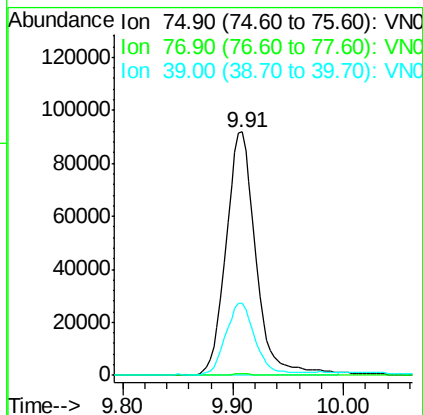
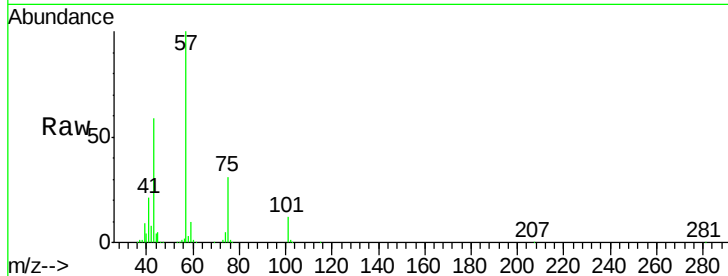


#54

cis-1,3-Dichloropropene
 Concen: 7.068 ug/l
 RT: 9.91 min Scan# 2530
 Delta R.T. 0.07 min
 Lab File: VN054246.D
 Acq: 14 Mar 2019 7:02

Instrument :
 MSVOA_N
 ClientSampleId :

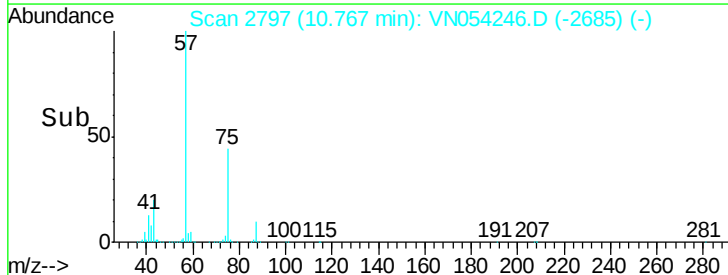
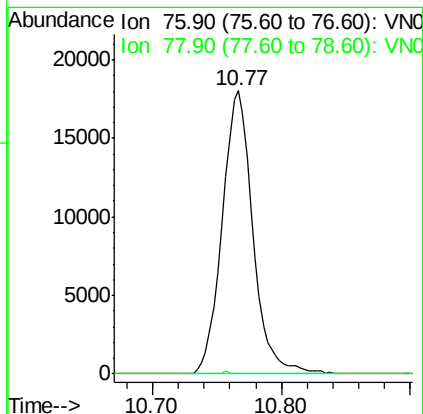
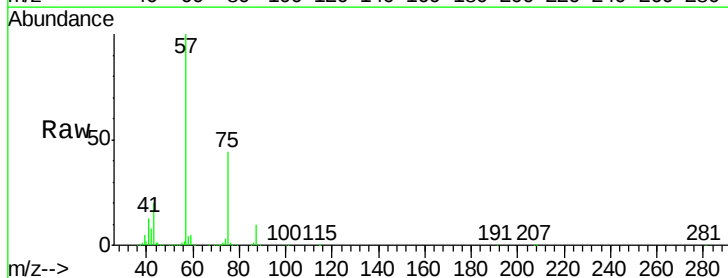
Tot Ion: 75 Resp: 172509
 Ion Ratio Lower Upper
 75 100
 77 0.5 25.4 38.0#
 39 29.2 37.2 55.8#

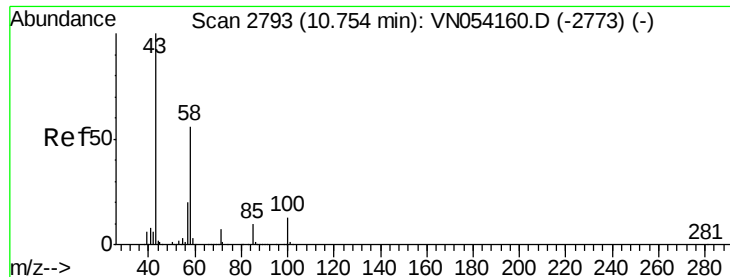


#57

1,3-Dichloropropane
 Concen: 1.261 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN054246.D
 Acq: 14 Mar 2019 7:02

Tgt Ion: 76 Resp: 29728
 Ion Ratio Lower Upper
 76 100
 78 0.1 25.7 38.5#

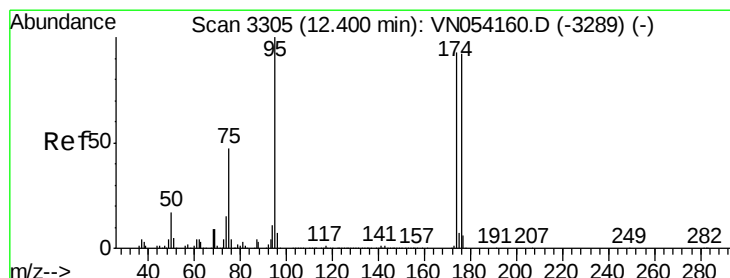
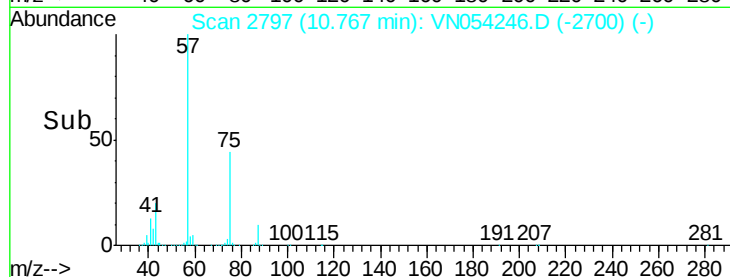
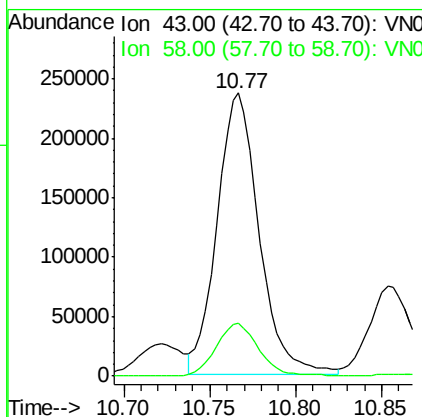
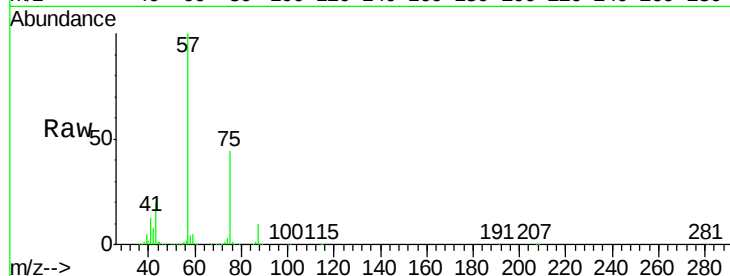




#59
2-Hexanone
Concen: 52.098 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN054246.D
Acq: 14 Mar 2019 7:02

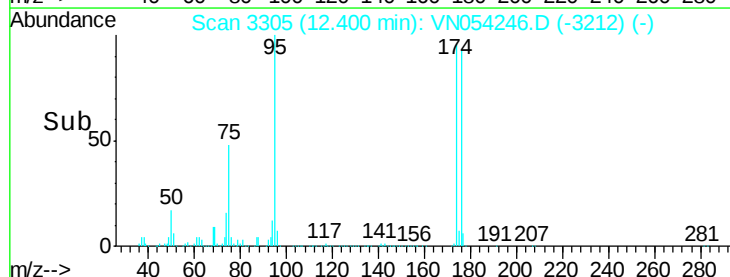
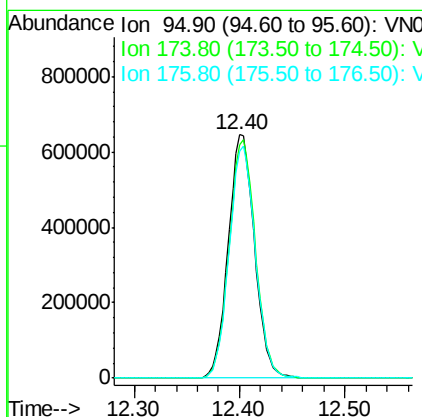
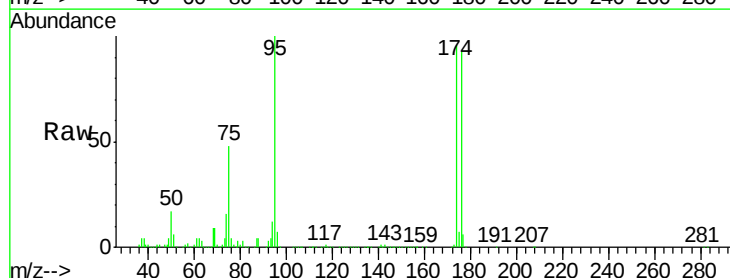
Instrument :
MSVOA_N
ClientSampled :

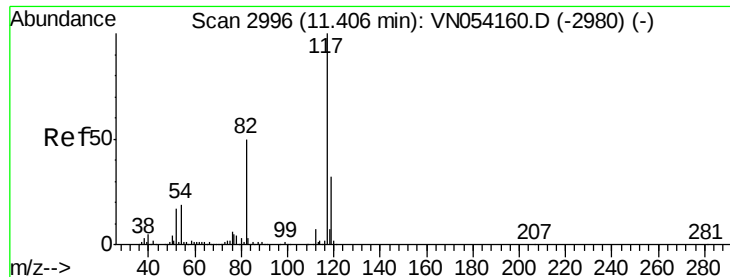
Tot Ion: 43 Resp: 402632
Ion Ratio Lower Upper
43 100
58 19.2 28.0 83.9#



#62
4-Bromofluorobenzene
Concen: 56.399 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054246.D
Acq: 14 Mar 2019 7:02

Tgt Ion: 95 Resp: 1110721
Ion Ratio Lower Upper
95 100
174 98.3 0.0 191.0
176 95.3 0.0 187.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054246.D

Acq: 14 Mar 2019 7:02

Instrument :

MSVOA_N

ClientSampleId :

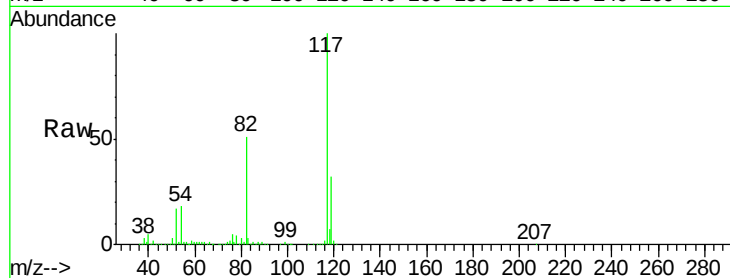
Tot Ion:117 Resp: 2473464

Ion Ratio Lower Upper

117 100

82 50.6 40.0 60.0

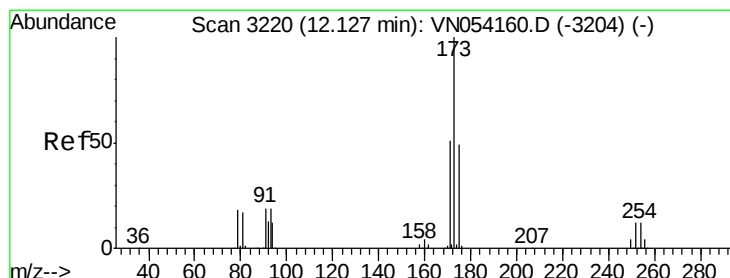
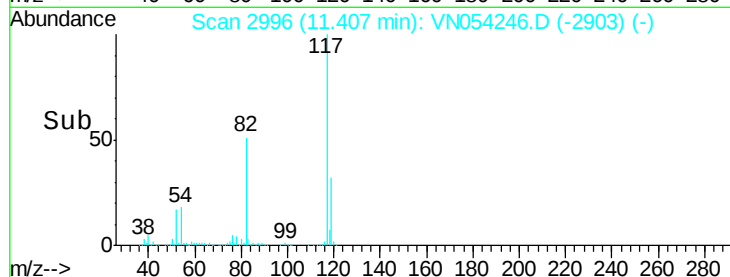
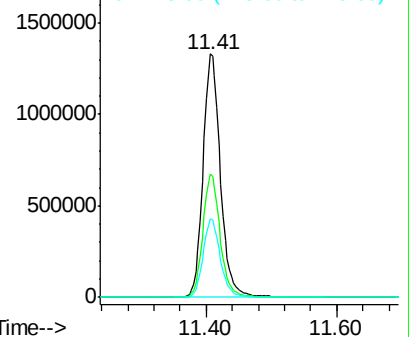
119 32.2 25.8 38.6



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: 2.804 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN054246.D

Acq: 14 Mar 2019 7:02

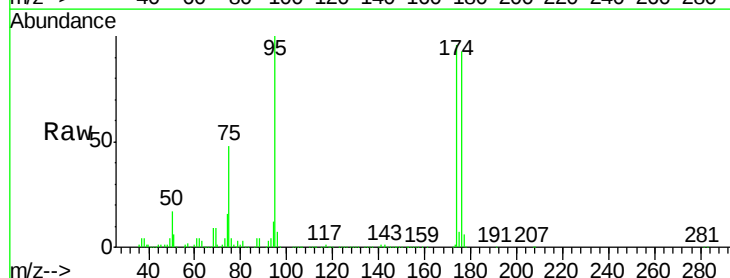
Tgt Ion:173 Resp: 7147

Ion Ratio Lower Upper

173 100

175 901.2 24.4 73.2#

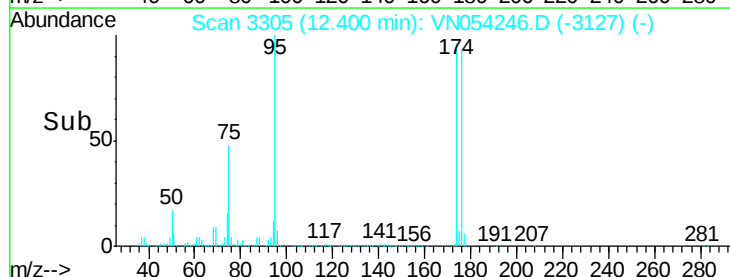
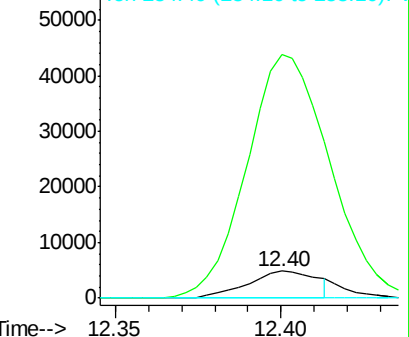
254 0.0 0.1 0.1#

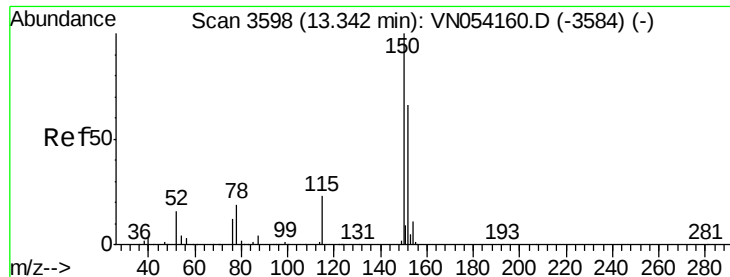


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054246.D

Acq: 14 Mar 2019 7:02

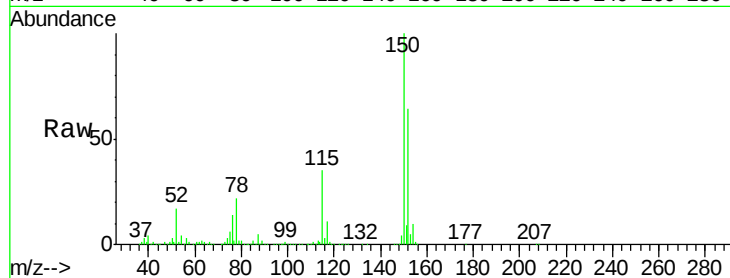
Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:152 Resp: 1068160

Ion	Ratio	Lower	Upper
152	100		
115	54.8	27.2	81.6
150	156.7	0.0	349.2

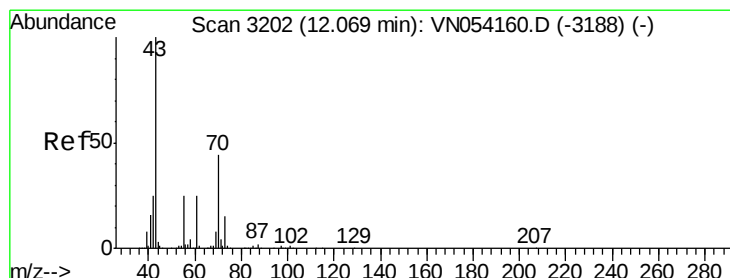
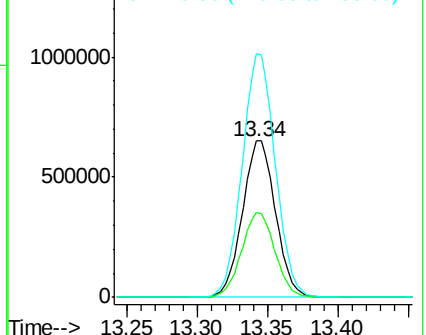
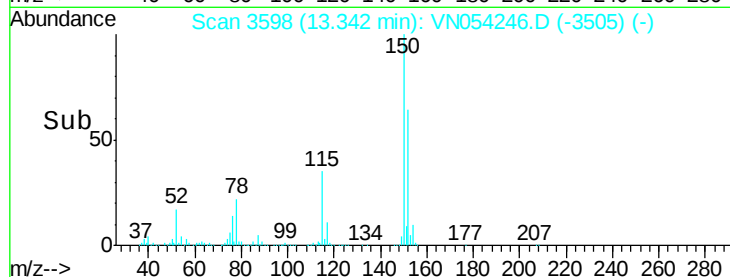


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#74

N-ethyl acetate

Concen: 2.152 ug/l

RT: 11.88 min Scan# 3142

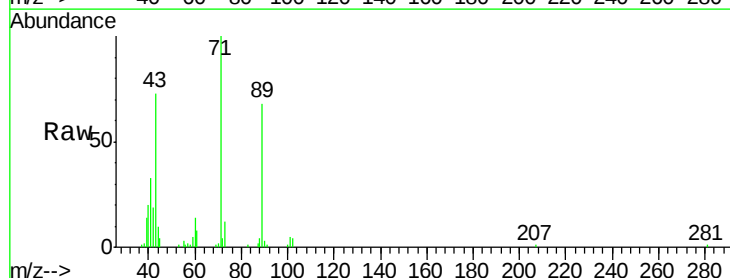
Delta R.T. -0.19 min

Lab File: VN054246.D

Acq: 14 Mar 2019 7:02

Tgt Ion: 43 Resp: 40818

Ion	Ratio	Lower	Upper
43	100		
70	3.1	35.4	53.0#
55	6.4	19.8	29.6#
61	11.6	19.8	29.6#



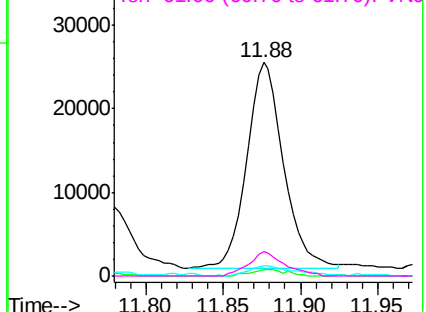
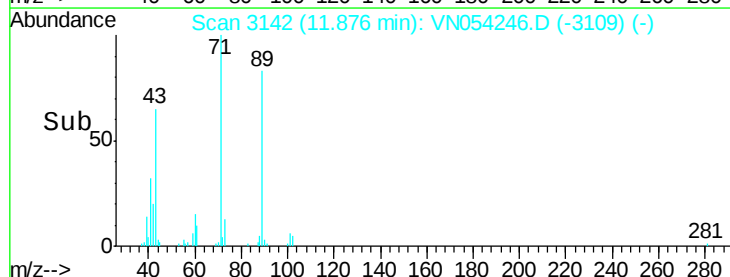
Abundance

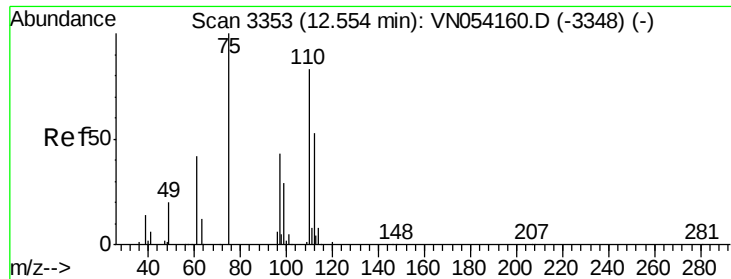
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 33.770 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054246.D

Acq: 14 Mar 2019 7:02

Instrument :

MSVOA_N

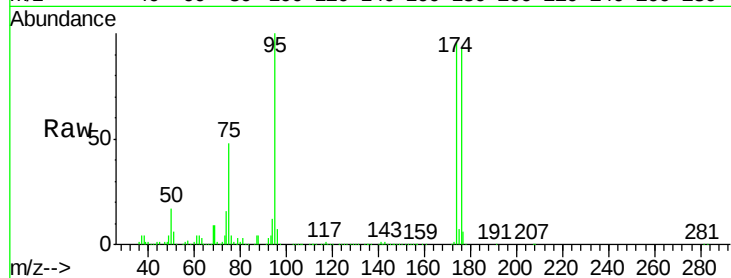
ClientSampleId :

Tot Ion: 75 Resp: 530454

Ion Ratio Lower Upper

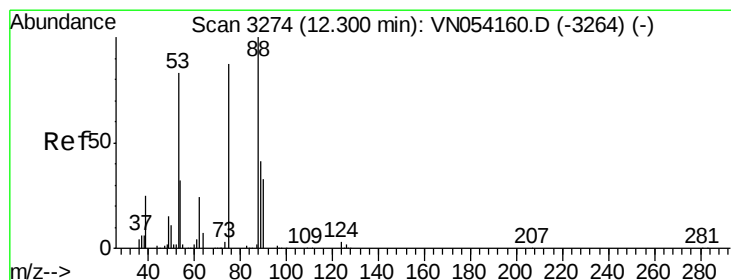
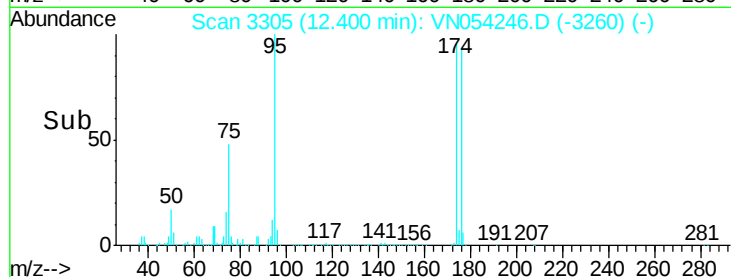
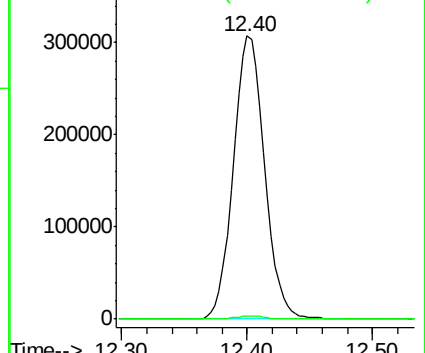
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 115.441 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054246.D

Acq: 14 Mar 2019 7:02

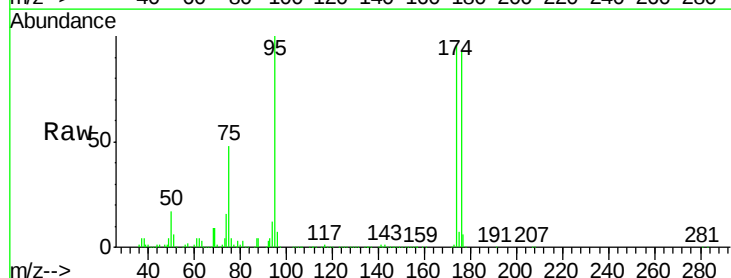
Tgt Ion: 75 Resp: 530454

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

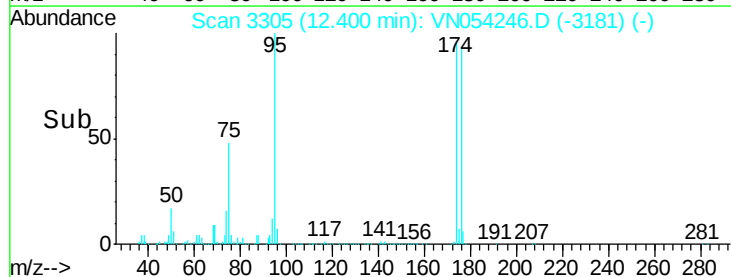
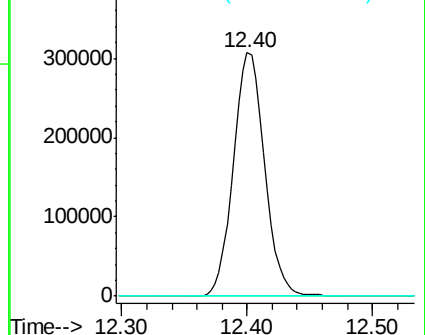
89 0.0 39.2 58.8#

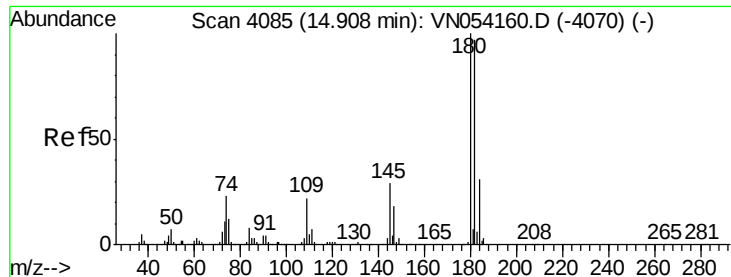


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

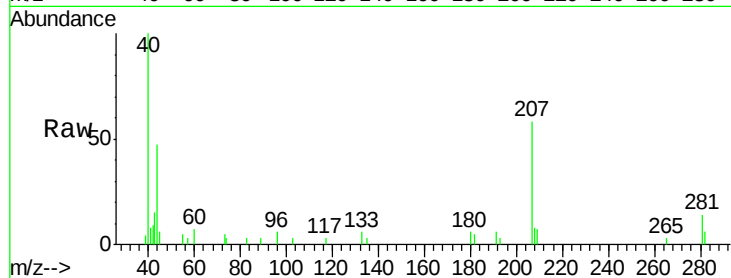




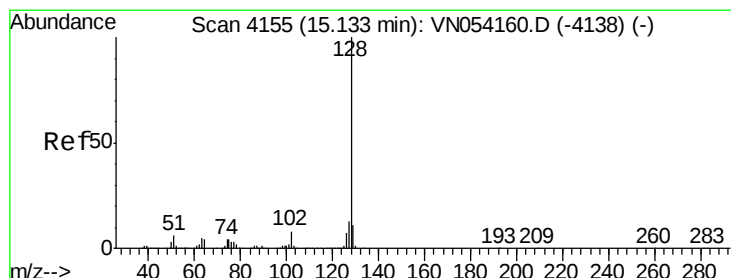
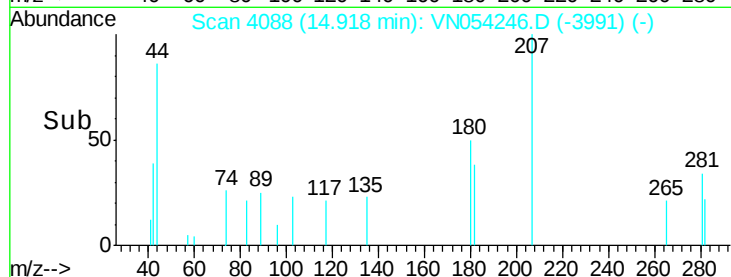
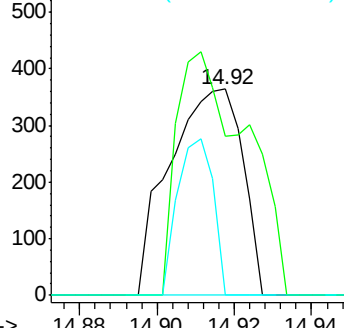
#93
 1,2,4-Trichlorobenzene
 Concen: 2.537 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN054246.D
 Acq: 14 Mar 2019 7:02

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 479
 Ion Ratio Lower Upper
 180 100
 182 112.3 48.0 144.2
 145 36.7 14.2 42.8

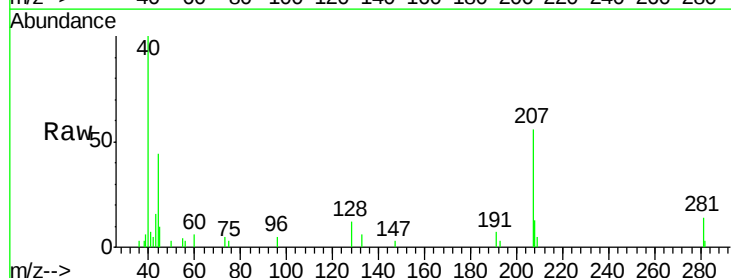


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 3.496 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN054246.D
 Acq: 14 Mar 2019 7:02

Tgt Ion:128 Resp: 1324
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.1 15.1#
 129 0.0 8.7 13.1#



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

