

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054243.D
 Acq On : 14 Mar 2019 5:43
 Operator : JC/SP
 Sample : K1866-12
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 14 08:55:50 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	1388197	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2309682	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2452656	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	1131624	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	752320	51.03	ug/l	0.00
Spiked Amount			Recovery	=	102.06%	
35) Dibromofluoromethane	7.59	113	708457	47.56	ug/l	0.00
Spiked Amount			Recovery	=	95.12%	
50) Toluene-d8	10.09	98	2889591	52.52	ug/l	0.00
Spiked Amount			Recovery	=	105.04%	
62) 4-Bromofluorobenzene	12.40	95	1124573	58.42	ug/l	0.00
Spiked Amount			Recovery	=	116.84%	

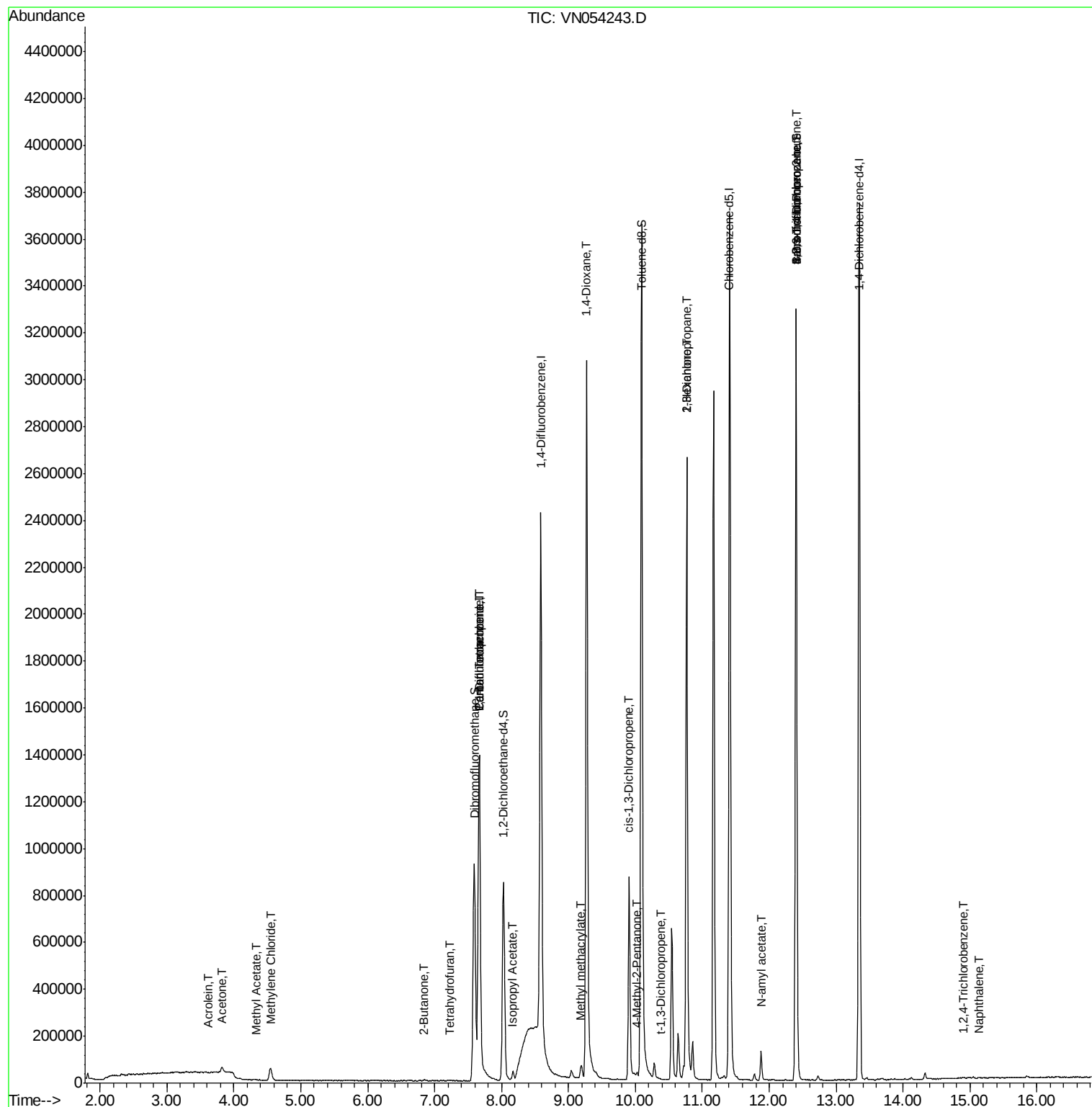
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	230	0.240	ug/l #	75
16) Acetone	3.83	43	34962	8.283	ug/l	95
18) Methyl Acetate	4.33	43	1866	0.218	ug/l #	64
20) Methylene Chloride	4.55	84	38226	2.758	ug/l	96
25) 2-Butanone	6.85	43	4648	0.938	ug/l	99
29) Tetrahydrofuran	7.23	42	3839	1.205	ug/l #	73
31) Cyclohexane	7.66	56	20766	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	81908	3.851	ug/l #	48
38) Carbon Tetrachloride	7.66	117	111422	4.995	ug/l #	15
43) Isopropyl Acetate	8.17	43	42382	1.976	ug/l	96
48) Methyl methacrylate	9.18	41	19655	1.805	ug/l #	11
49) 1,4-Dioxane	9.28	88	404	2.624	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	18661	1.644	ug/l #	36
53) t-1,3-Dichloropropene	10.38	75	137	1.992	ug/l #	64
54) cis-1,3-Dichloropropene	9.90	75	175749	7.367	ug/l #	60
57) 1,3-Dichloropropane	10.76	76	30437	1.321	ug/l #	43
59) 2-Hexanone	10.77	43	400471	53.014	ug/l #	50
71) Bromoform	12.40	173	6745	2.782	ug/l #	1
74) N-amyl acetate	11.88	43	38198	1.901	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	548445	32.957	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	548445	112.663	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	548	2.538	ug/l #	69
95) Naphthalene	15.14	128	1592	3.500	ug/l #	95

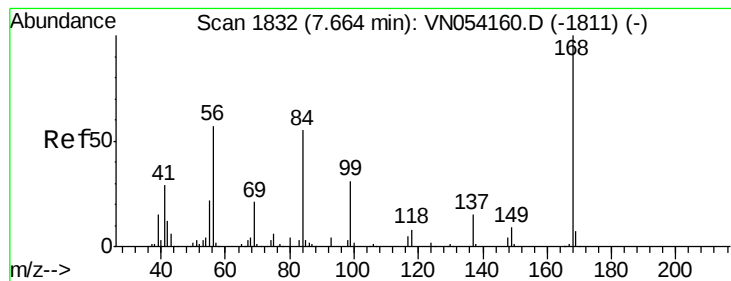
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 14 08:55:50 2019
Quant Method : Z:\V0ASRV\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: VN054243.D

Acq: 14 Mar 2019 5:43

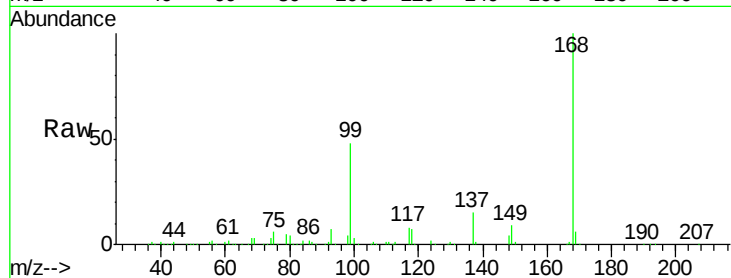
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1388197

Ion Ratio Lower Upper

168 100

99 47.9 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

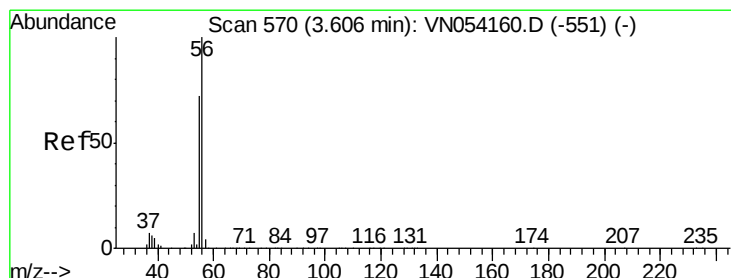
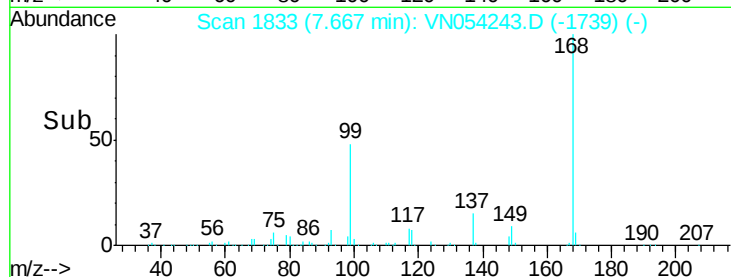
300000

200000

100000

0

Time-->



#13

Acrolein

Concen: 0.240 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN054243.D

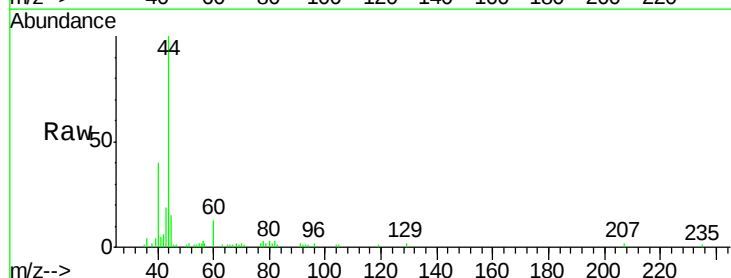
Acq: 14 Mar 2019 5:43

Tgt Ion: 56 Resp: 230

Ion Ratio Lower Upper

56 100

55 91.3 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.62

1000

800

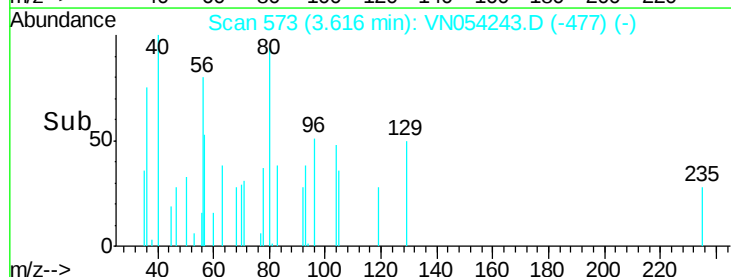
600

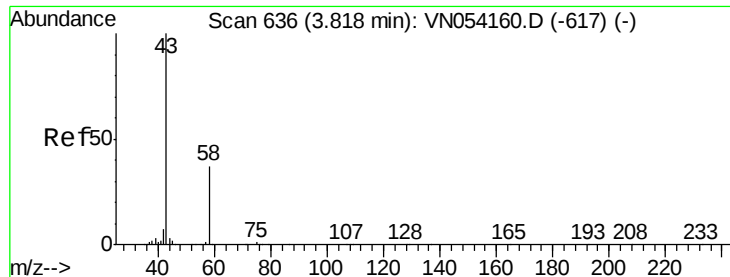
400

200

0

Time-->





#16

Acetone

Concen: 8.283 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN054243.D

Acq: 14 Mar 2019 5:43

Instrument :

MSVOA_N

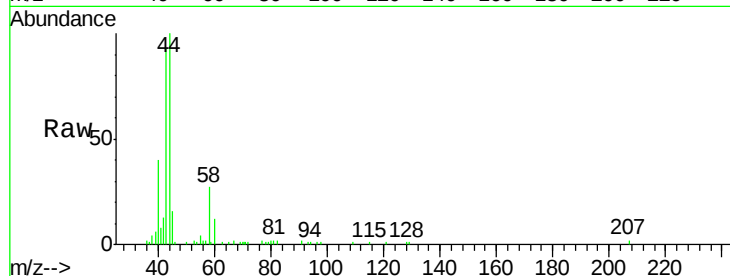
ClientSampleId :

Tot Ion: 43 Resp: 34962

Ion Ratio Lower Upper

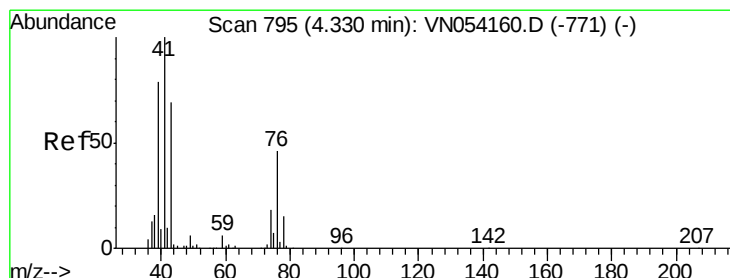
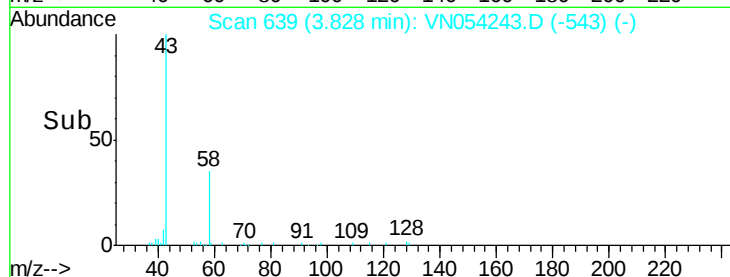
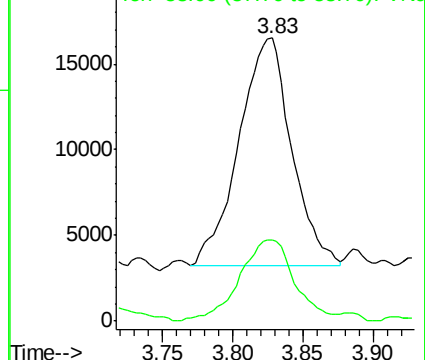
43 100

58 34.2 29.9 44.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.218 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN054243.D

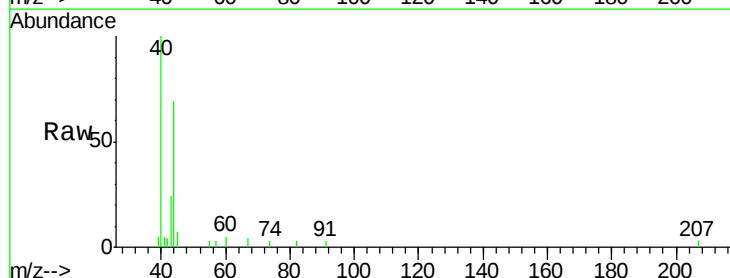
Acq: 14 Mar 2019 5:43

Tgt Ion: 43 Resp: 1866

Ion Ratio Lower Upper

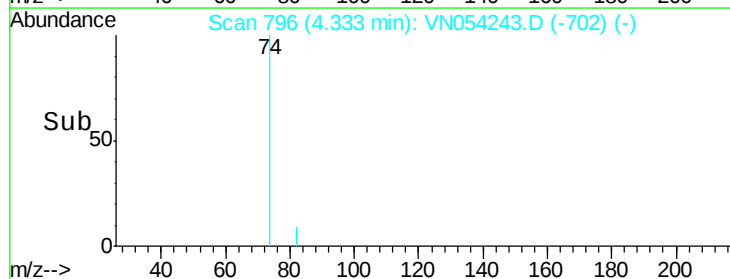
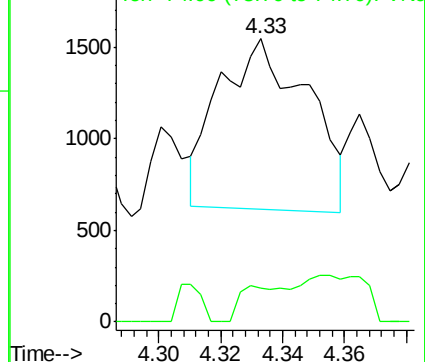
43 100

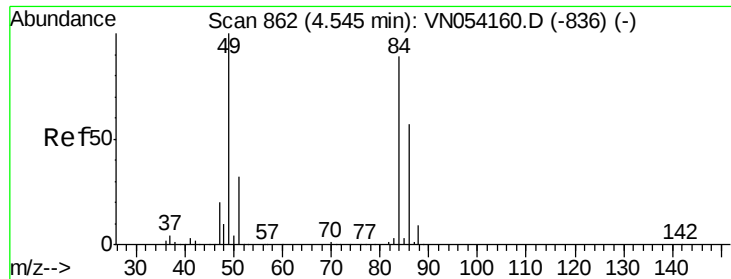
74 7.6 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

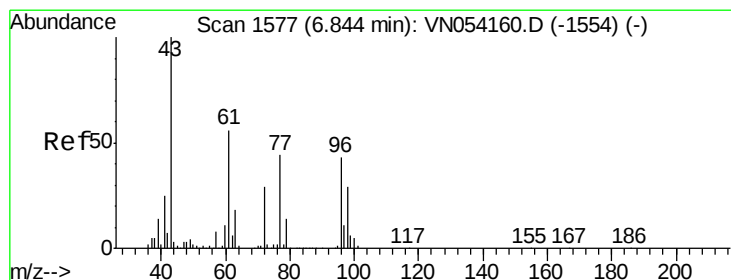
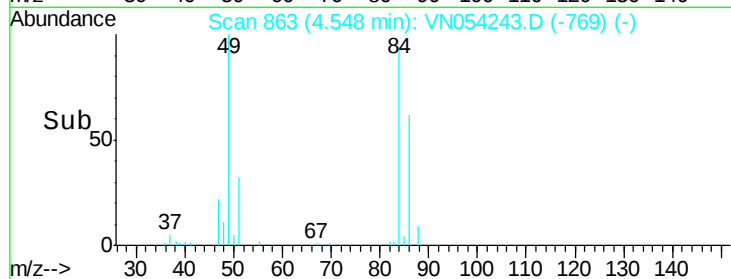
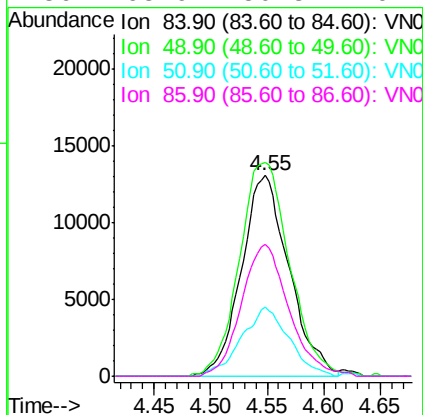
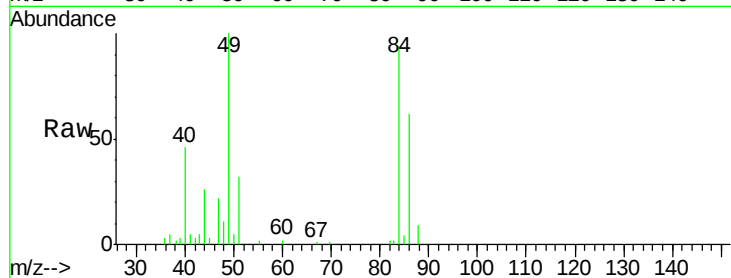




#20
Methvlene Chloride
Concen: 2.758 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054243.D
Acq: 14 Mar 2019 5:43

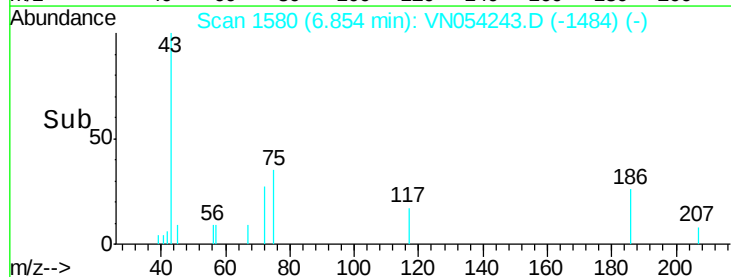
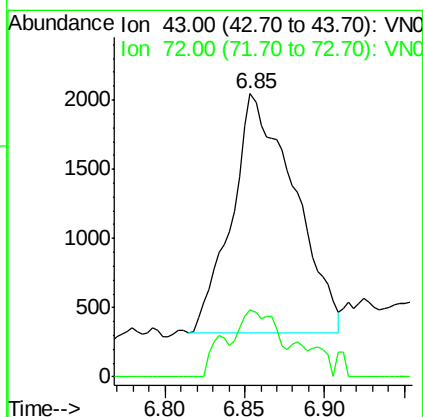
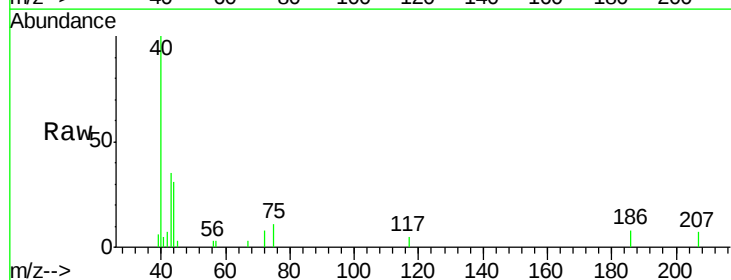
Instrument :
MSVOA_N
ClientSampled :

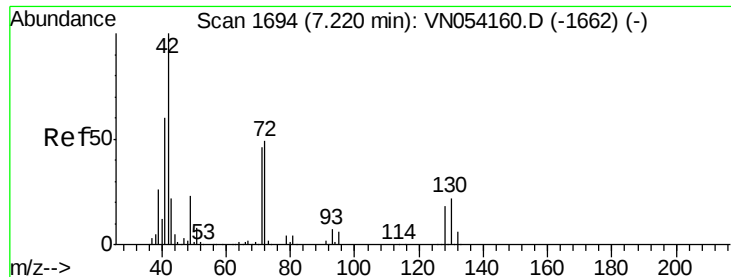
Tot Ion: 84 Resp: 38226
Ion Ratio Lower Upper
84 100
49 106.5 89.7 134.5
51 34.2 28.2 42.4
86 65.9 50.8 76.2



#25
2-Butanone
Concen: 0.938 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN054243.D
Acq: 14 Mar 2019 5:43

Tgt Ion: 43 Resp: 4648
Ion Ratio Lower Upper
43 100
72 28.1 23.0 34.6

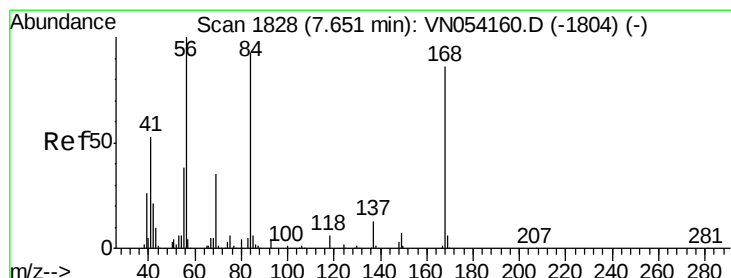
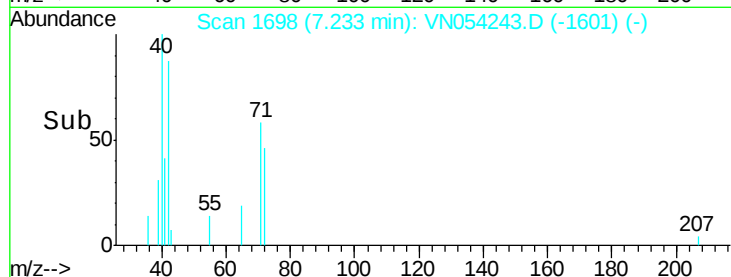
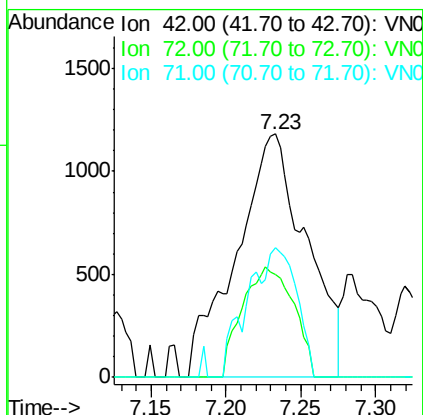
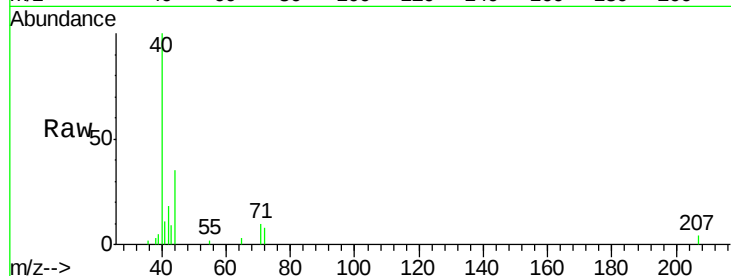




#29
Tetrahydrofuran
Concen: 1.205 ug/l
RT: 7.23 min Scan# 1698
Delta R.T. 0.01 min
Lab File: VN054243.D
Acq: 14 Mar 2019 5:43

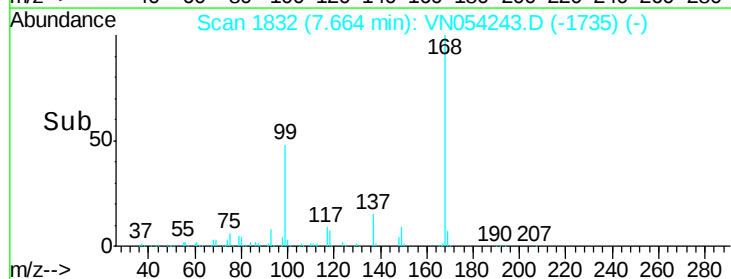
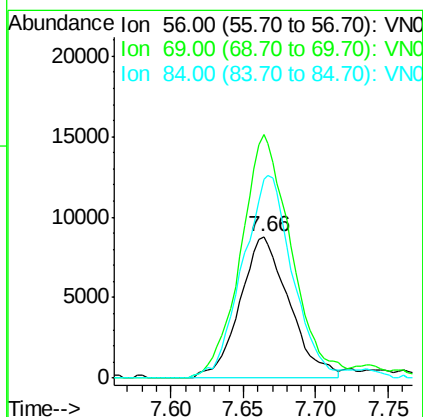
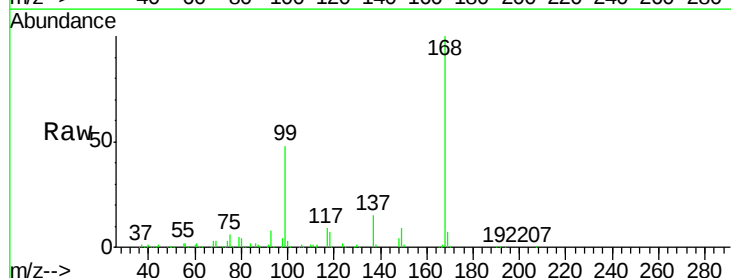
Instrument :
MSVOA_N
ClientSampleId :

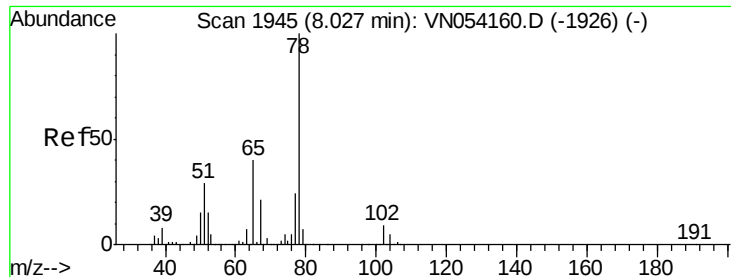
Tot Ion: 42 Resp: 3839
Ion Ratio Lower Upper
42 100
72 33.5 37.8 56.6#
71 23.4 36.2 54.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054243.D
Acq: 14 Mar 2019 5:43

Tgt Ion: 56 Resp: 20766
Ion Ratio Lower Upper
56 100
69 172.1 27.8 41.6#
84 140.2 74.6 111.8#

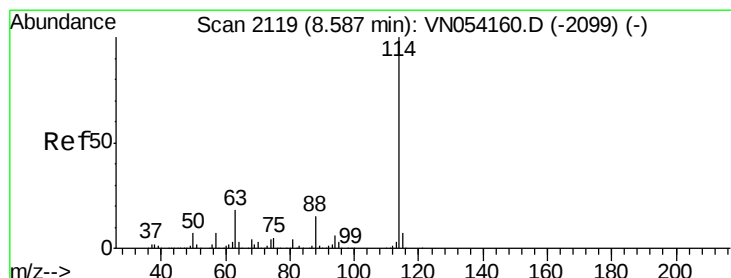
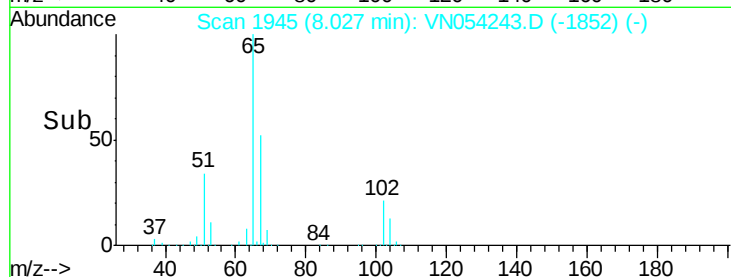
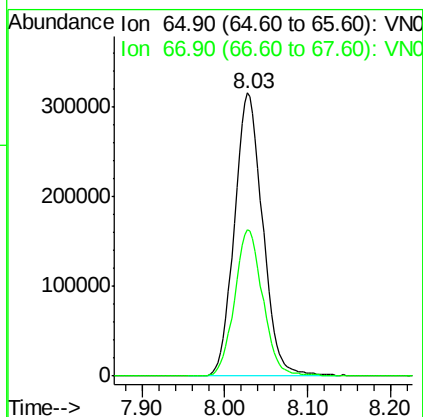
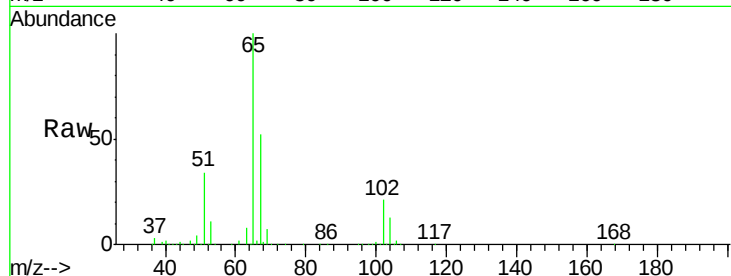




#33
 1,2-Dichloroethane-d4
 Concen: 51.030 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054243.D
 Acq: 14 Mar 2019 5:43

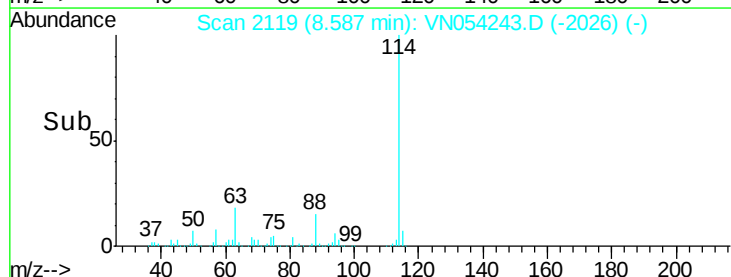
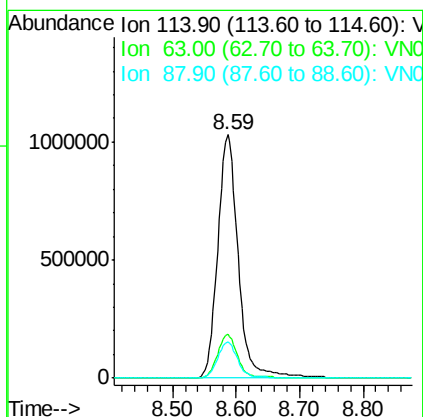
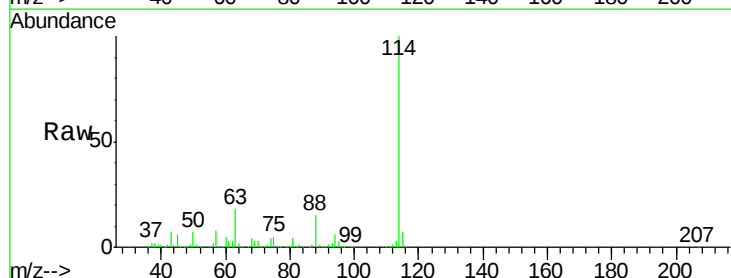
Instrument :
 MSVOA_N
 ClientSampleId :

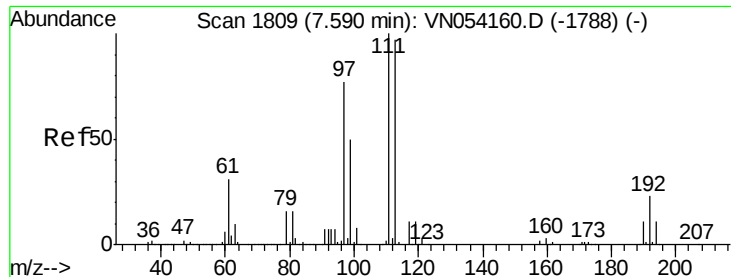
Tot Ion: 65 Resp: 752320
 Ion Ratio Lower Upper
 65 100
 67 51.7 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054243.D
 Acq: 14 Mar 2019 5:43

Tgt Ion: 114 Resp: 2309682
 Ion Ratio Lower Upper
 114 100
 63 17.8 0.0 35.2
 88 14.9 0.0 30.2





#35

Dibromofluoromethane

Concen: 47.559 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054243.D

Acq: 14 Mar 2019 5:43

Instrument :
MSVOA_N
ClientSampleId :

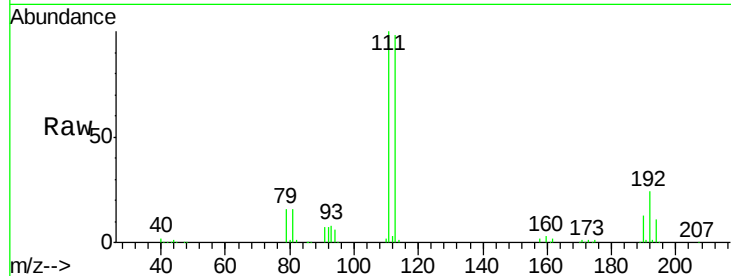
Tot Ion:113 Resp: 708457

Ion Ratio Lower Upper

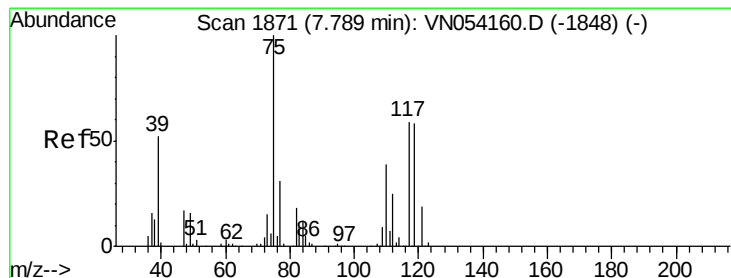
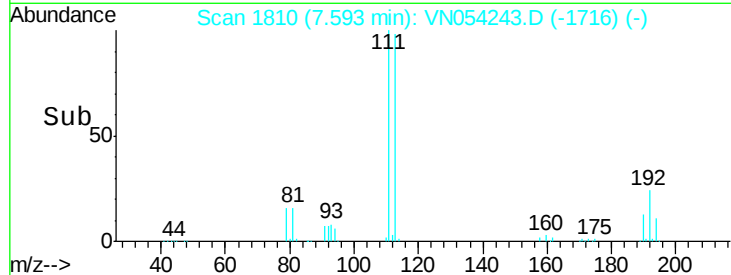
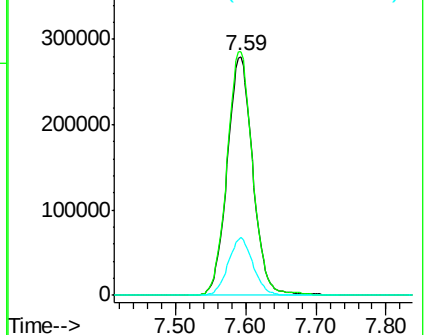
113 100

111 102.1 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: 3.851 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.13 min

Lab File: VN054243.D

Acq: 14 Mar 2019 5:43

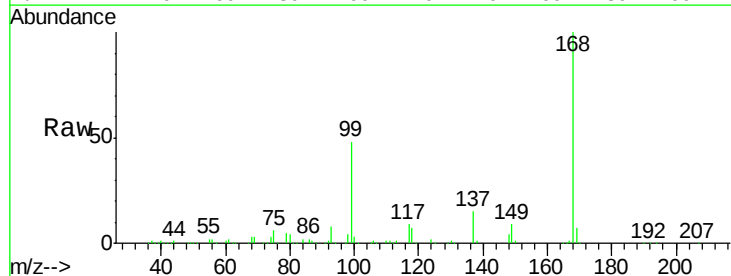
Tgt Ion: 75 Resp: 81908

Ion Ratio Lower Upper

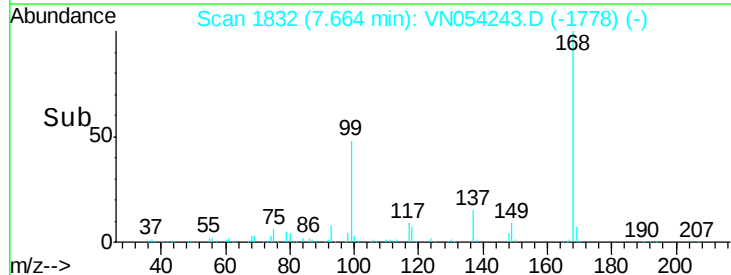
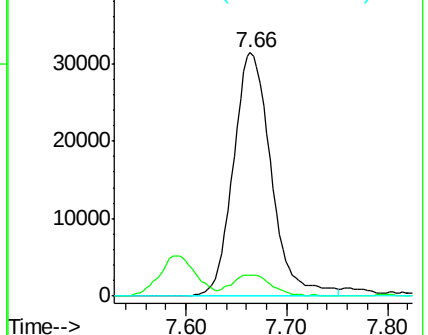
75 100

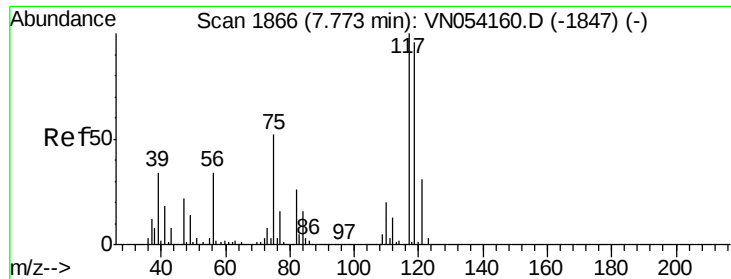
110 9.0 19.1 57.5#

77 0.0 25.0 37.4#



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

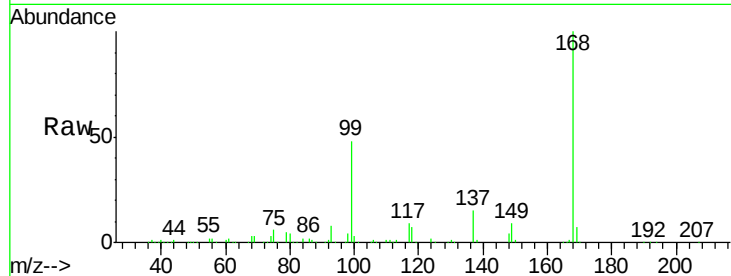




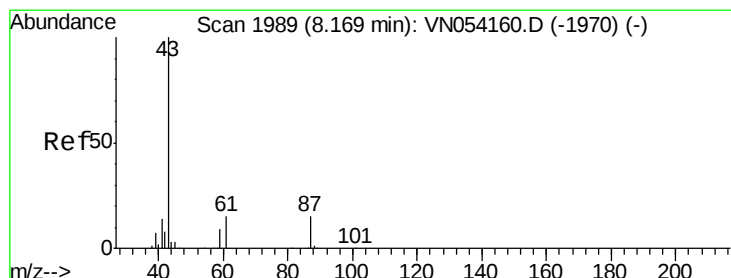
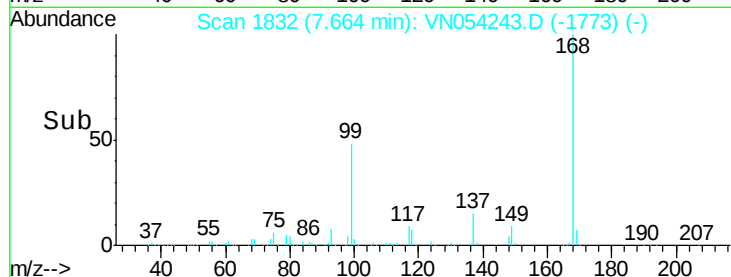
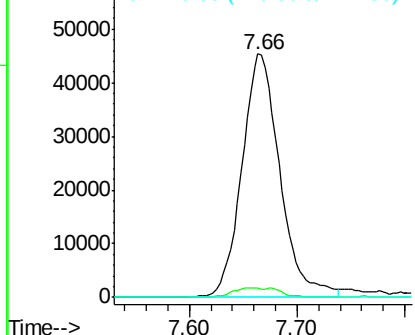
#38
Carbon Tetrachloride
Concen: 4.995 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.11 min
Lab File: VN054243.D
Acq: 14 Mar 2019 5:43

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:117 Resp: 111422
Ion Ratio Lower Upper
117 100
119 3.8 76.3 114.5#
121 0.0 24.6 36.8#

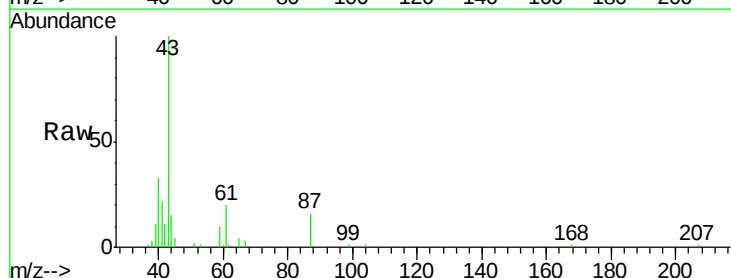


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

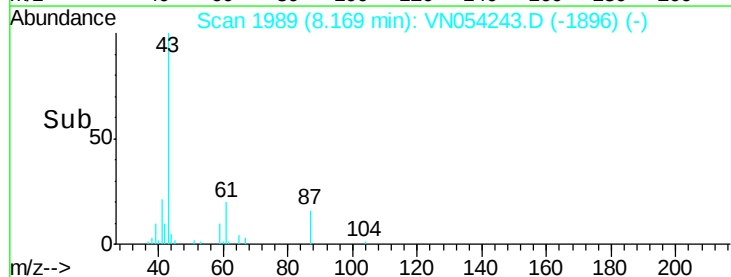
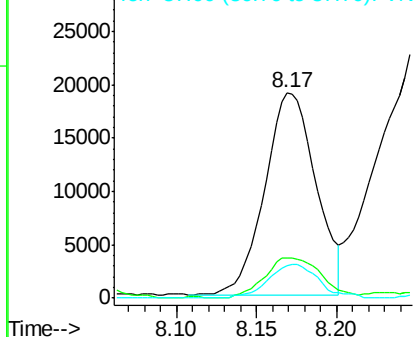


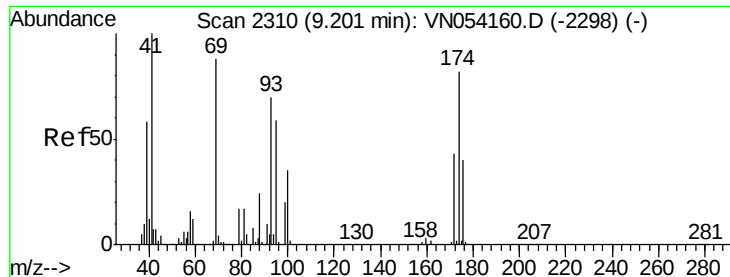
#43
Isopropyl Acetate
Concen: 1.976 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN054243.D
Acq: 14 Mar 2019 5:43

Tgt Ion: 43 Resp: 42382
Ion Ratio Lower Upper
43 100
61 22.0 15.8 23.8
87 16.4 12.0 18.0



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

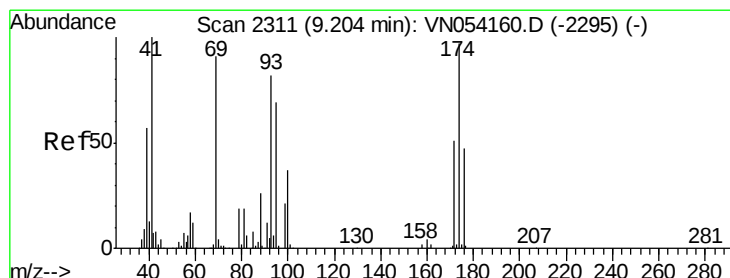
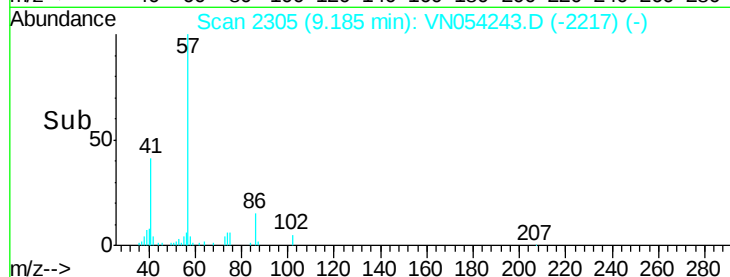
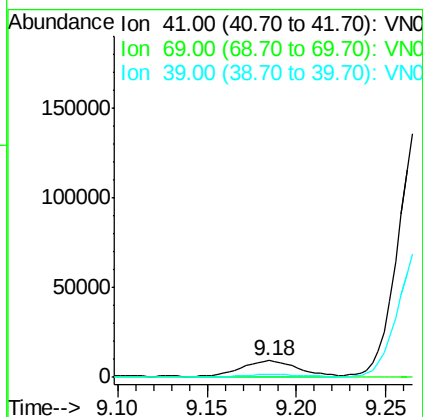
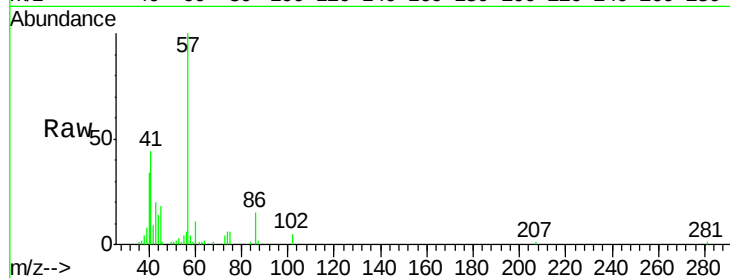




#48
Methvl methacrylate
Concen: 1.805 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN054243.D
Acq: 14 Mar 2019 5:43

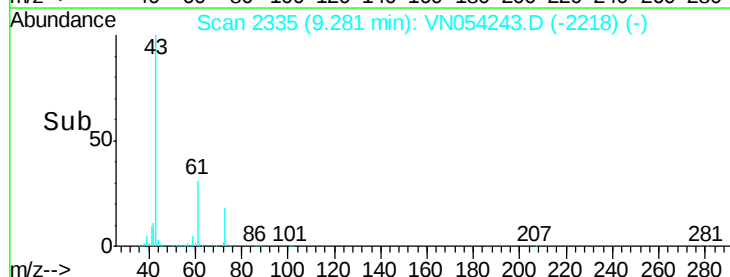
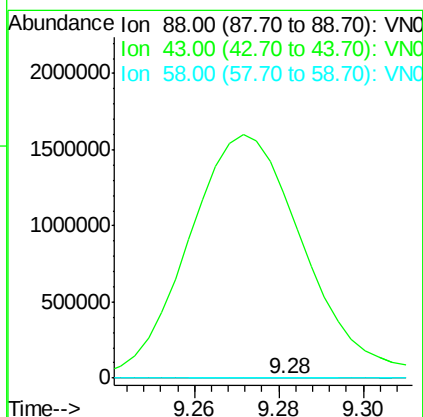
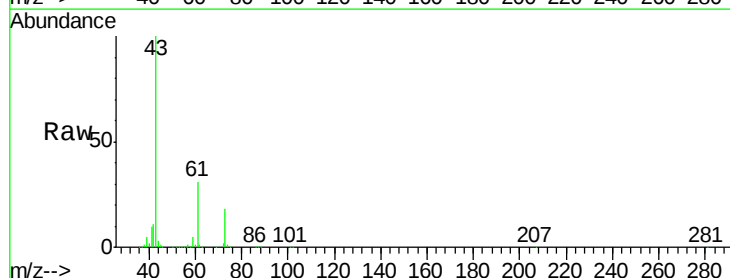
Instrument :
MSVOA_N
ClientSampleId :

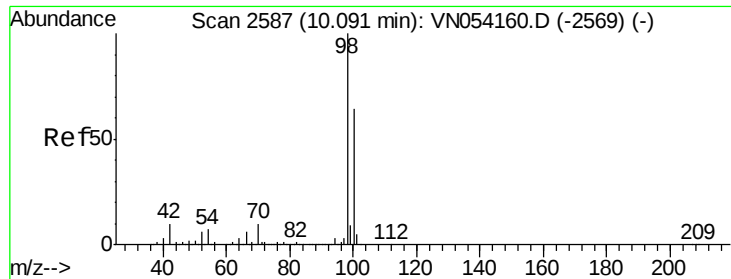
Tot Ion: 41 Resp: 19655
Ion Ratio Lower Upper
41 100
69 0.0 72.6 108.8#
39 0.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 2.624 ug/l
RT: 9.28 min Scan# 2335
Delta R.T. 0.08 min
Lab File: VN054243.D
Acq: 14 Mar 2019 5:43

Tgt Ion: 88 Resp: 404
Ion Ratio Lower Upper
88 100
43 801054.7 24.1 36.1#
58 3318.6 50.8 76.2#





#50

Toluene-d8

Concen: 52.524 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054243.D

Acq: 14 Mar 2019 5:43

Instrument :

MSVOA_N

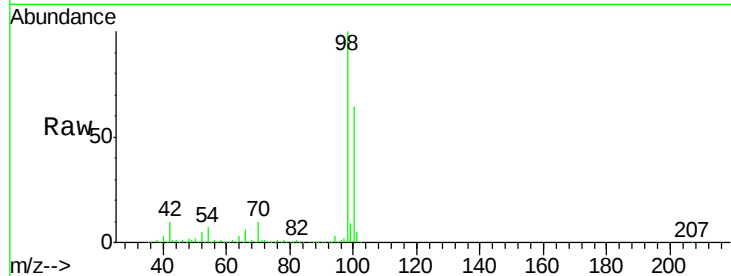
ClientSampled :

Tot Ion: 98 Resp: 2889591

Ion Ratio Lower Upper

98 100

100 63.6 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054160.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054160.D (-2569) (-)

10.09

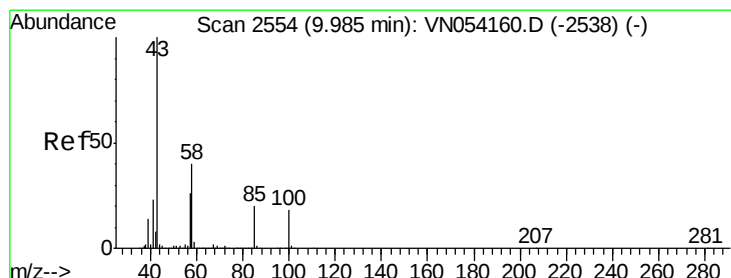
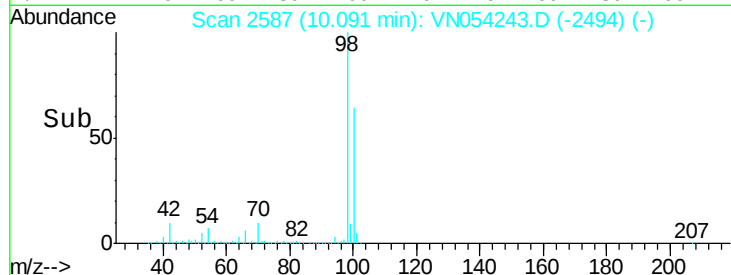
1500000

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.644 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054243.D

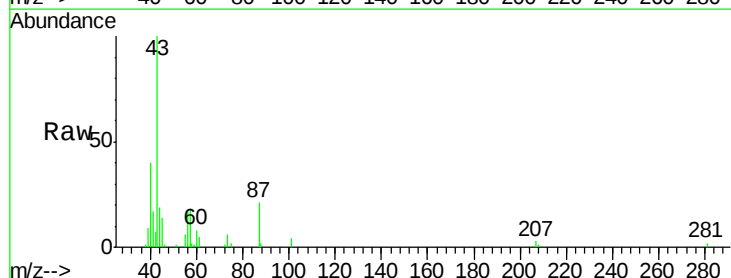
Acq: 14 Mar 2019 5:43

Tgt Ion: 43 Resp: 18661

Ion Ratio Lower Upper

43 100

58 0.0 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054160.D (-2538) (-)

Ion 58.00 (57.70 to 58.70): VN054160.D (-2538) (-)

10.03

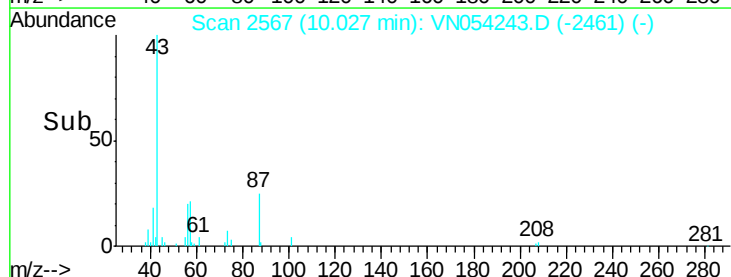
15000

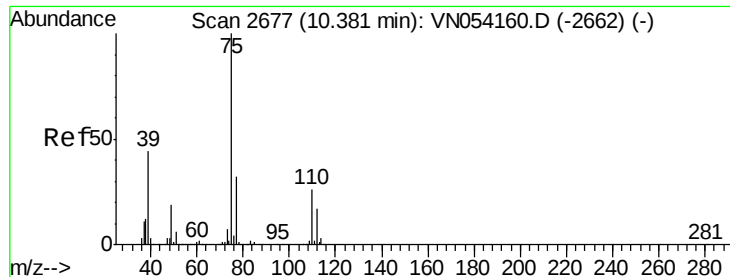
10000

5000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 1.992 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054243.D

Acq: 14 Mar 2019 5:43

Instrument :

MSVOA_N

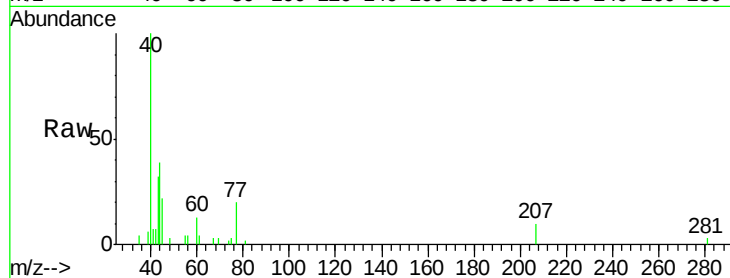
ClientSampleId :

Tot Ion: 75 Resp: 137

Ion Ratio Lower Upper

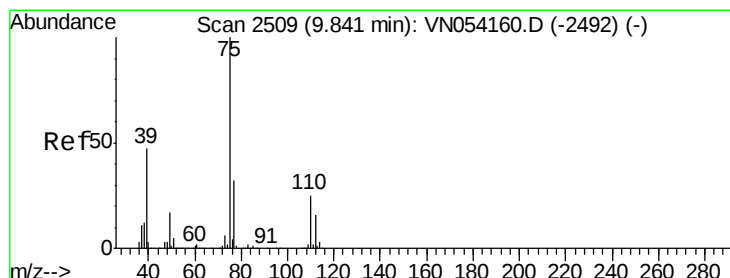
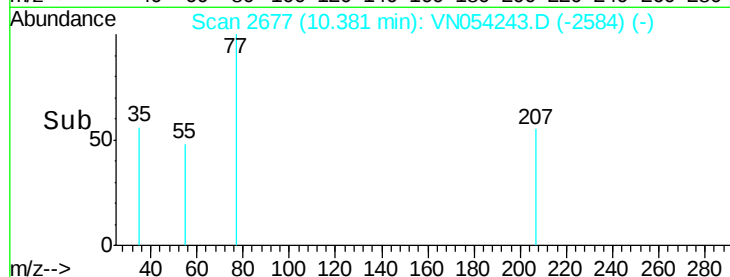
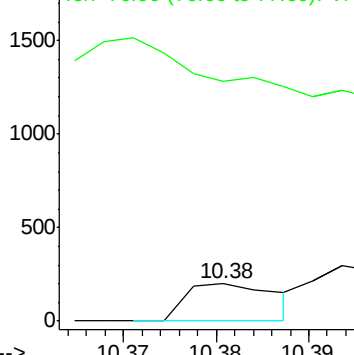
75 100

77 12.1 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 7.367 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054243.D

Acq: 14 Mar 2019 5:43

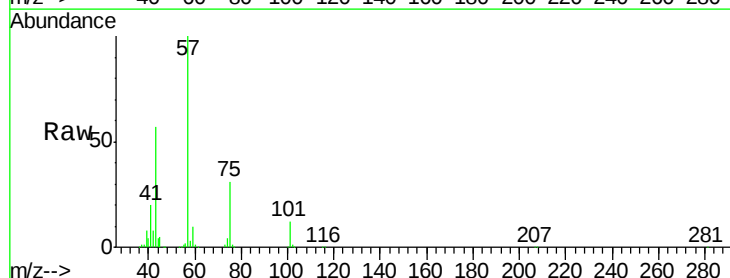
Tgt Ion: 75 Resp: 175749

Ion Ratio Lower Upper

75 100

77 0.5 25.4 38.0#

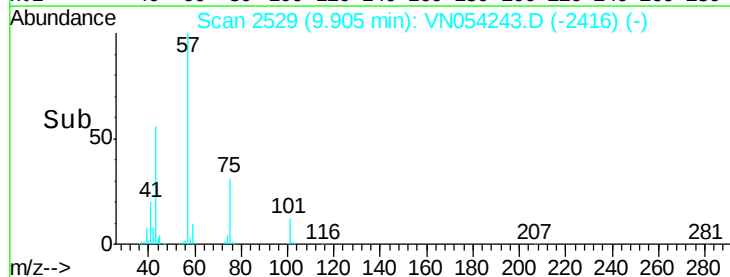
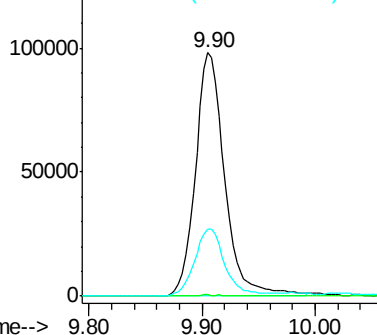
39 27.4 37.2 55.8#

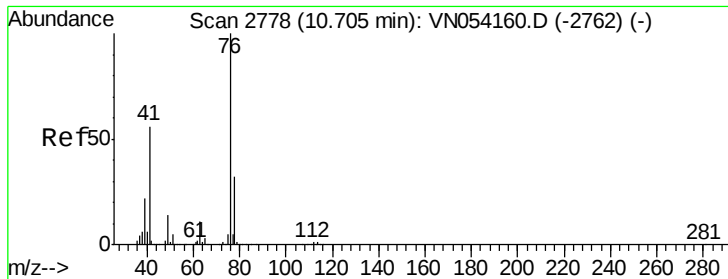


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

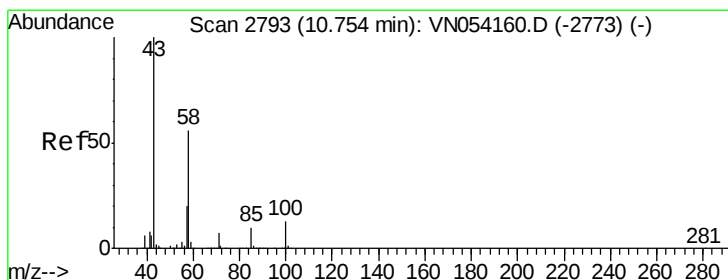
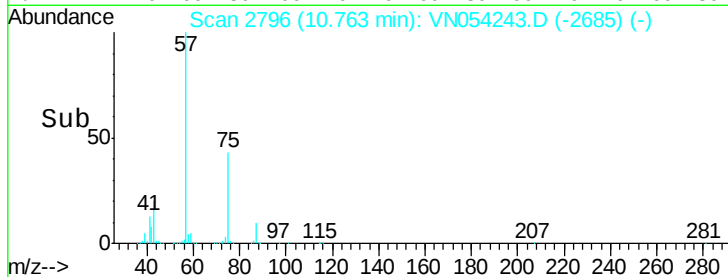
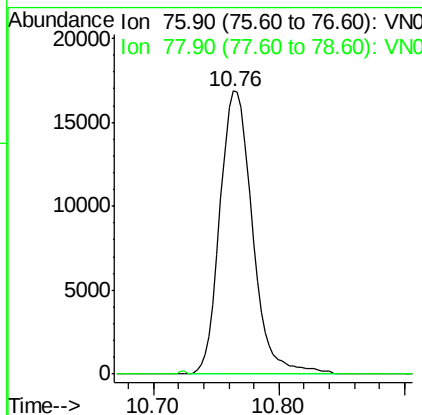
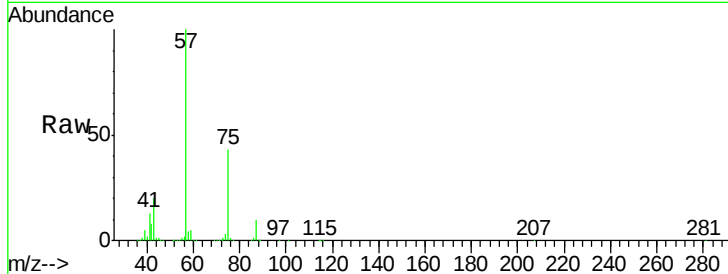




#57
 1,3-Dichloropropane
 Concen: 1.321 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN054243.D
 Acq: 14 Mar 2019 5:43

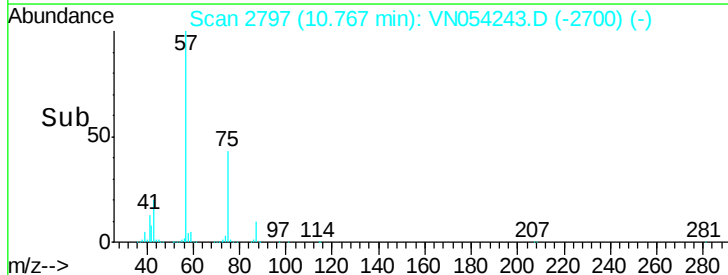
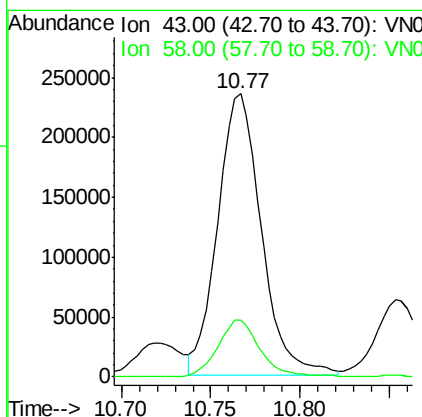
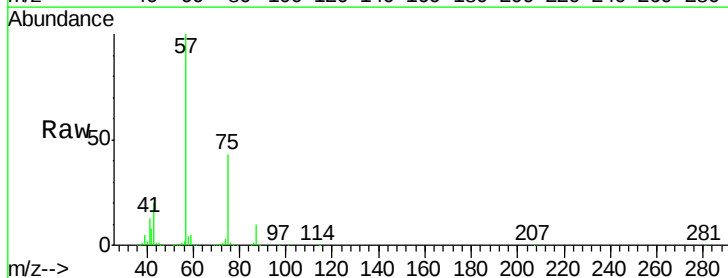
Instrument :
 MSVOA_N
 ClientSampleId :

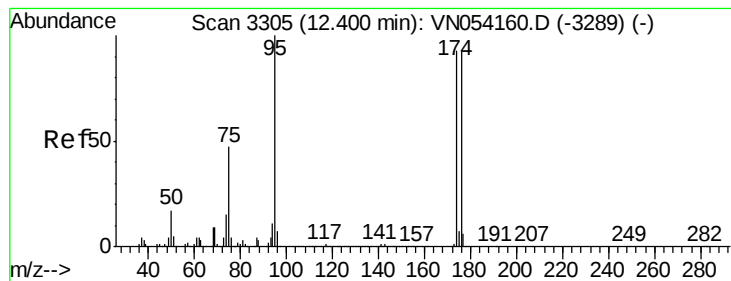
Tot Ion: 76 Resp: 30437
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.7 38.5#



#59
 2-Hexanone
 Concen: 53.014 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN054243.D
 Acq: 14 Mar 2019 5:43

Tgt Ion: 43 Resp: 400471
 Ion Ratio Lower Upper
 43 100
 58 19.7 28.0 83.9#





#62

4-Bromofluorobenzene

Concen: 58.420 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054243.D

Acq: 14 Mar 2019 5:43

Instrument :

MSVOA_N

ClientSampled :

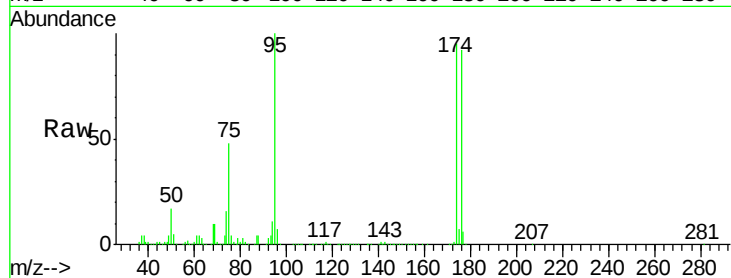
Tot Ion: 95 Resp: 1124573

Ion Ratio Lower Upper

95 100

174 97.8 0.0 191.0

176 94.5 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054243.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN054243.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN054243.D (-2903) (-)

Time-->

12.40

800000

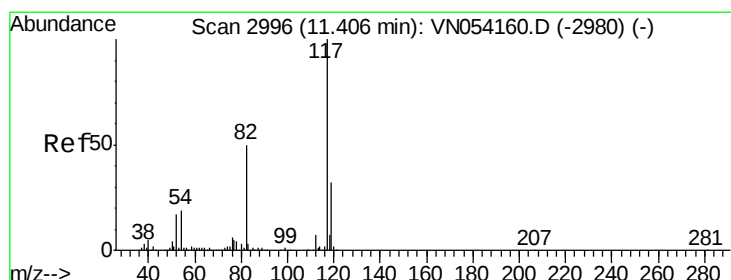
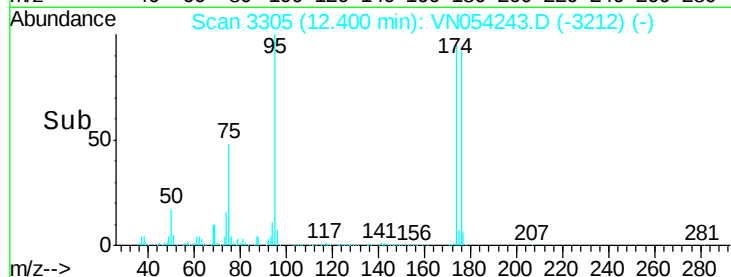
600000

400000

200000

0

12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054243.D

Acq: 14 Mar 2019 5:43

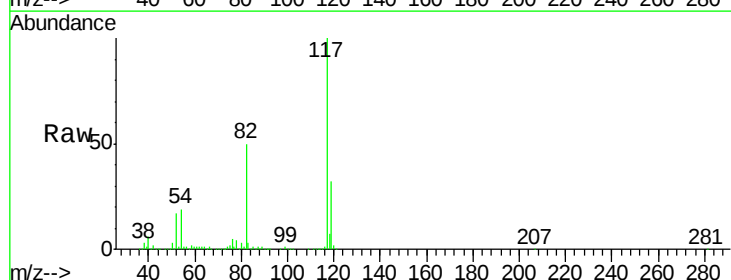
Tgt Ion: 117 Resp: 2452656

Ion Ratio Lower Upper

117 100

82 50.4 40.0 60.0

119 31.9 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN054243.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054243.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054243.D (-2903) (-)

Time-->

11.41

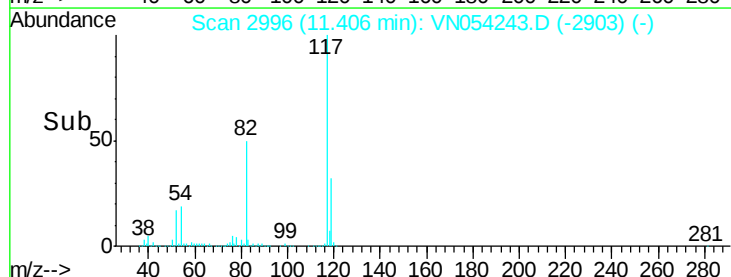
1500000

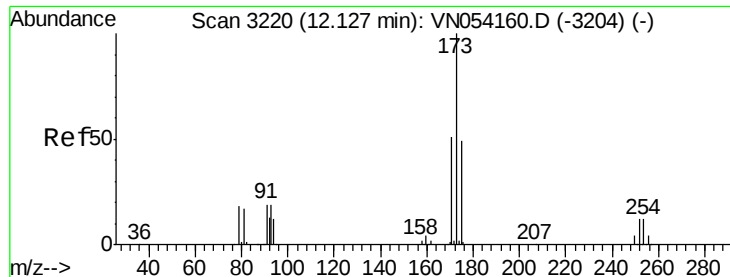
1000000

500000

0

11.30 11.40 11.50 11.60





#71

Bromoform

Concen: 2.782 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054243.D

Acq: 14 Mar 2019 5:43

Instrument :

MSVOA_N

ClientSampleId :

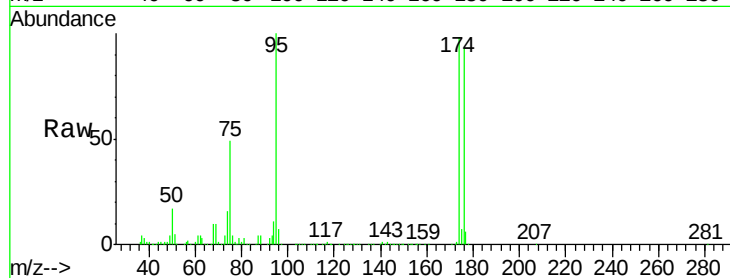
Tot Ion:173 Resp: 6745

Ion Ratio Lower Upper

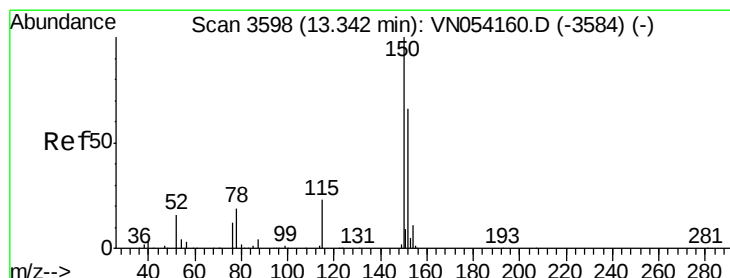
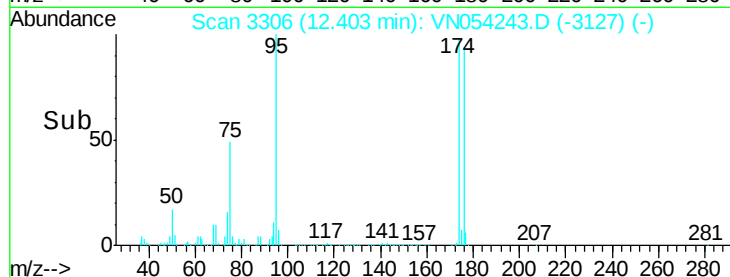
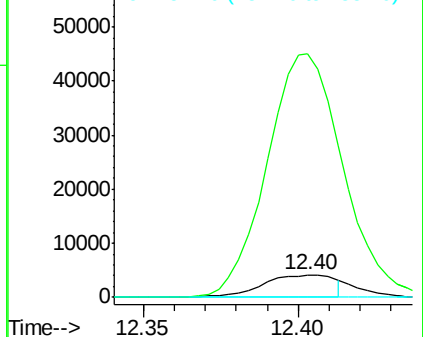
173 100

175 971.7 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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054243.D

Acq: 14 Mar 2019 5:43

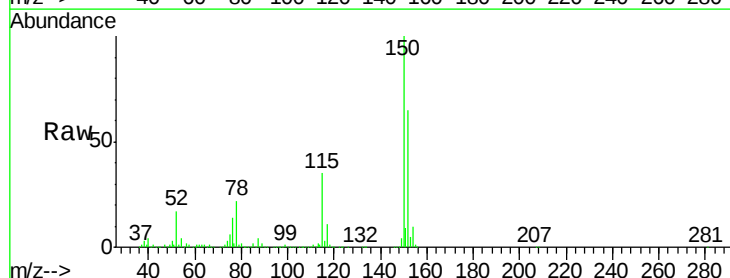
Tgt Ion:152 Resp: 1131624

Ion Ratio Lower Upper

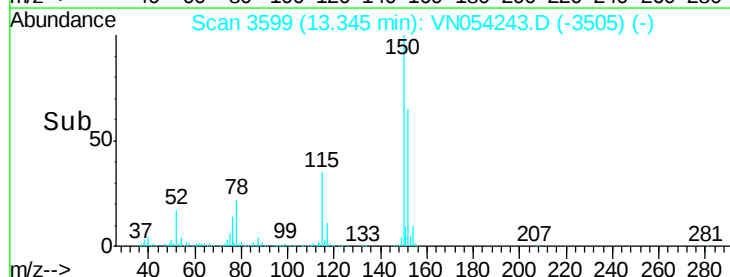
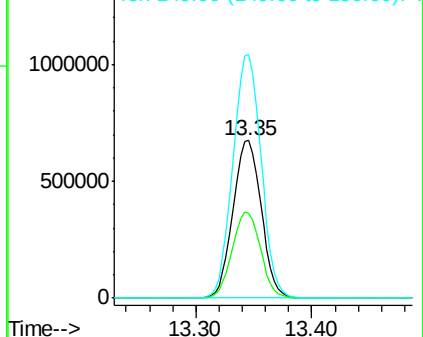
152 100

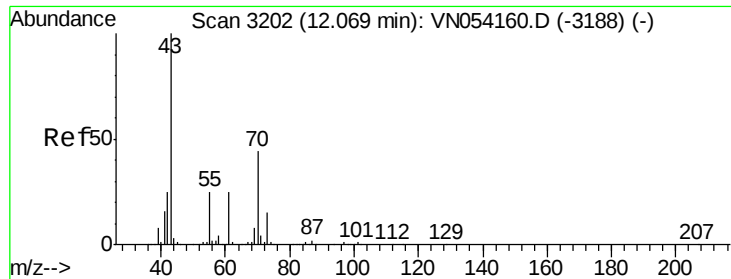
115 54.8 27.2 81.6

150 154.7 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-amvl acetate

Concen: 1.901 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN054243.D

Acq: 14 Mar 2019 5:43

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 38198

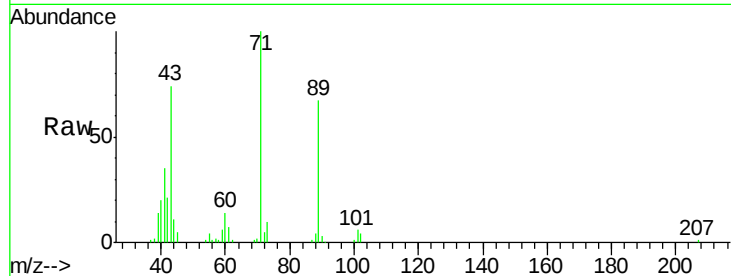
Ion Ratio Lower Upper

43 100

70 3.0 35.4 53.0#

55 6.8 19.8 29.6#

61 9.8 19.8 29.6#

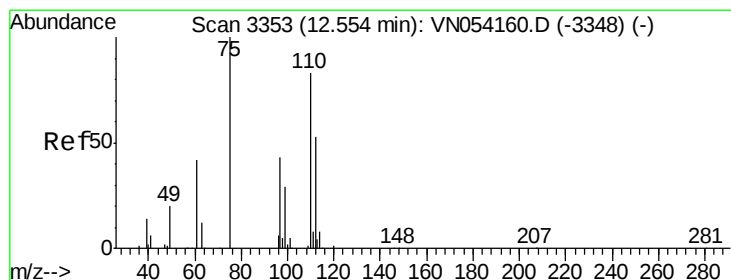
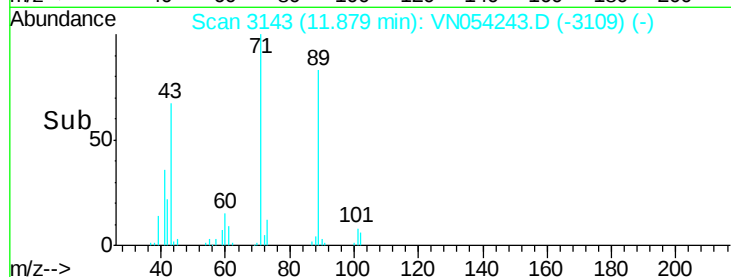
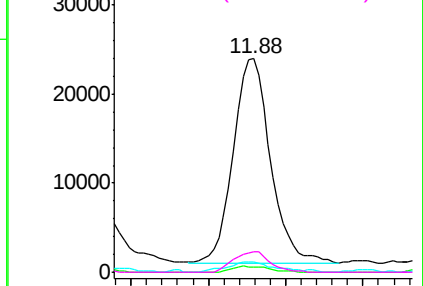


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 32.957 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN054243.D

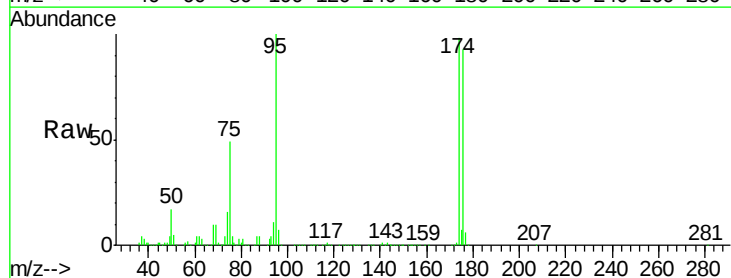
Acq: 14 Mar 2019 5:43

Tgt Ion: 75 Resp: 548445

Ion Ratio Lower Upper

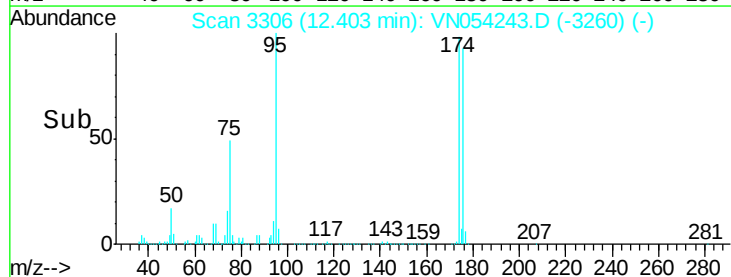
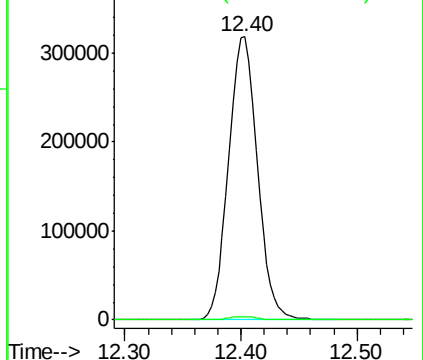
75 100

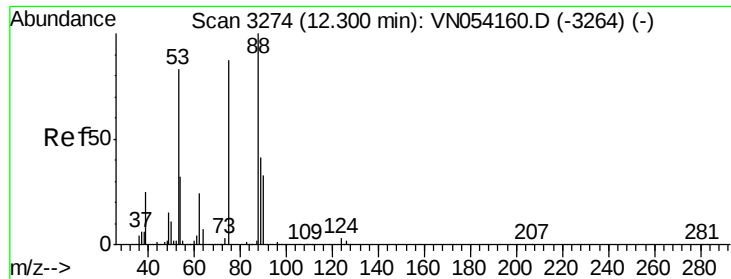
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

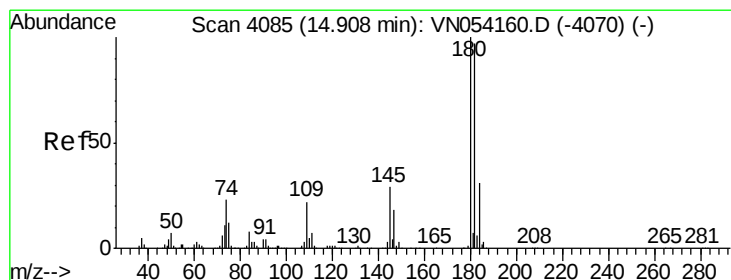
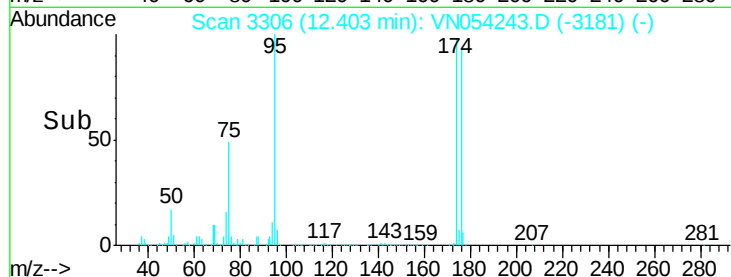
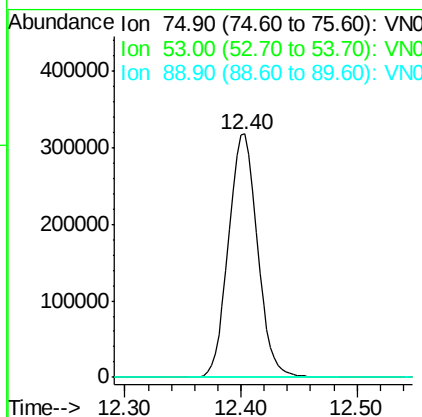
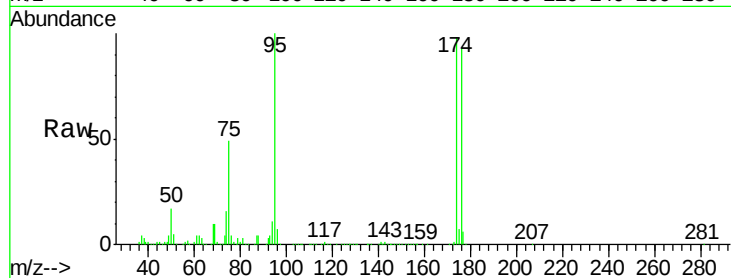




#81
trans-1,4-Dichloro-2-butene
Concen: 112.663 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN054243.D
Acq: 14 Mar 2019 5:43

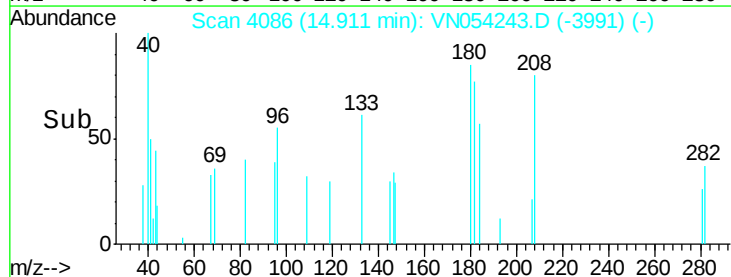
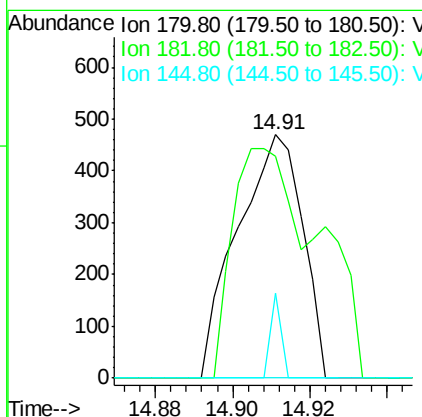
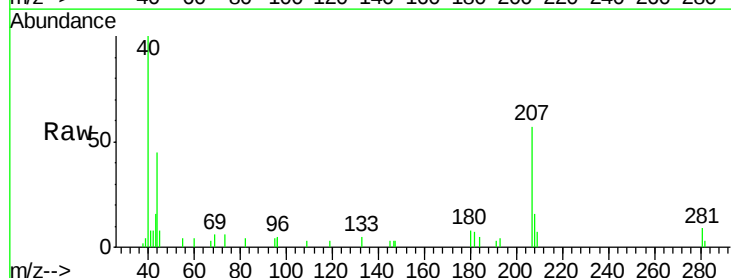
Instrument :
MSVOA_N
ClientSampled :

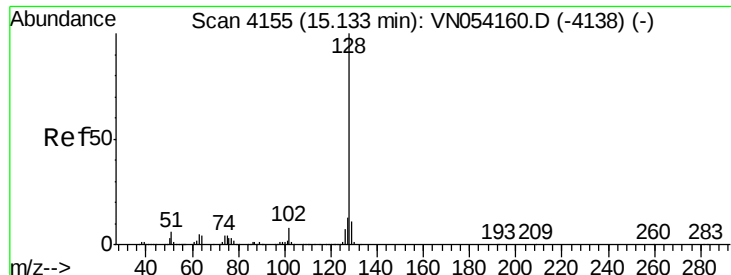
Tot Ion: 75 Resp: 548445
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.0 39.2 58.8#



#93
1,2,4-Trichlorobenzene
Concen: 2.538 ug/l
RT: 14.91 min Scan# 4086
Delta R.T. 0.00 min
Lab File: VN054243.D
Acq: 14 Mar 2019 5:43

Tgt Ion: 180 Resp: 548
Ion Ratio Lower Upper
180 100
182 123.5 48.0 144.2
145 5.8 14.2 42.8#





#95

Naphthalene

Concen: 3.500 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN054243.D

Acq: 14 Mar 2019 5:43

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:128 Resp: 1592

Ion Ratio Lower Upper

128 100

127 12.7 10.1 15.1

129 6.7 8.7 13.1#

