

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054245.D
 Acq On : 14 Mar 2019 6:36
 Operator : JC/SP
 Sample : K1866-08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 14 08:56:22 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	1338526	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2297722	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2417643	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	1059727	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	749400	52.72	ug/l	0.00
Spiked Amount			Recovery	=	105.44%	
35) Dibromofluoromethane	7.59	113	711575	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	
50) Toluene-d8	10.09	98	2848028	52.04	ug/l	0.00
Spiked Amount			Recovery	=	104.08%	
62) 4-Bromofluorobenzene	12.40	95	1092302	57.04	ug/l	0.00
Spiked Amount			Recovery	=	114.08%	

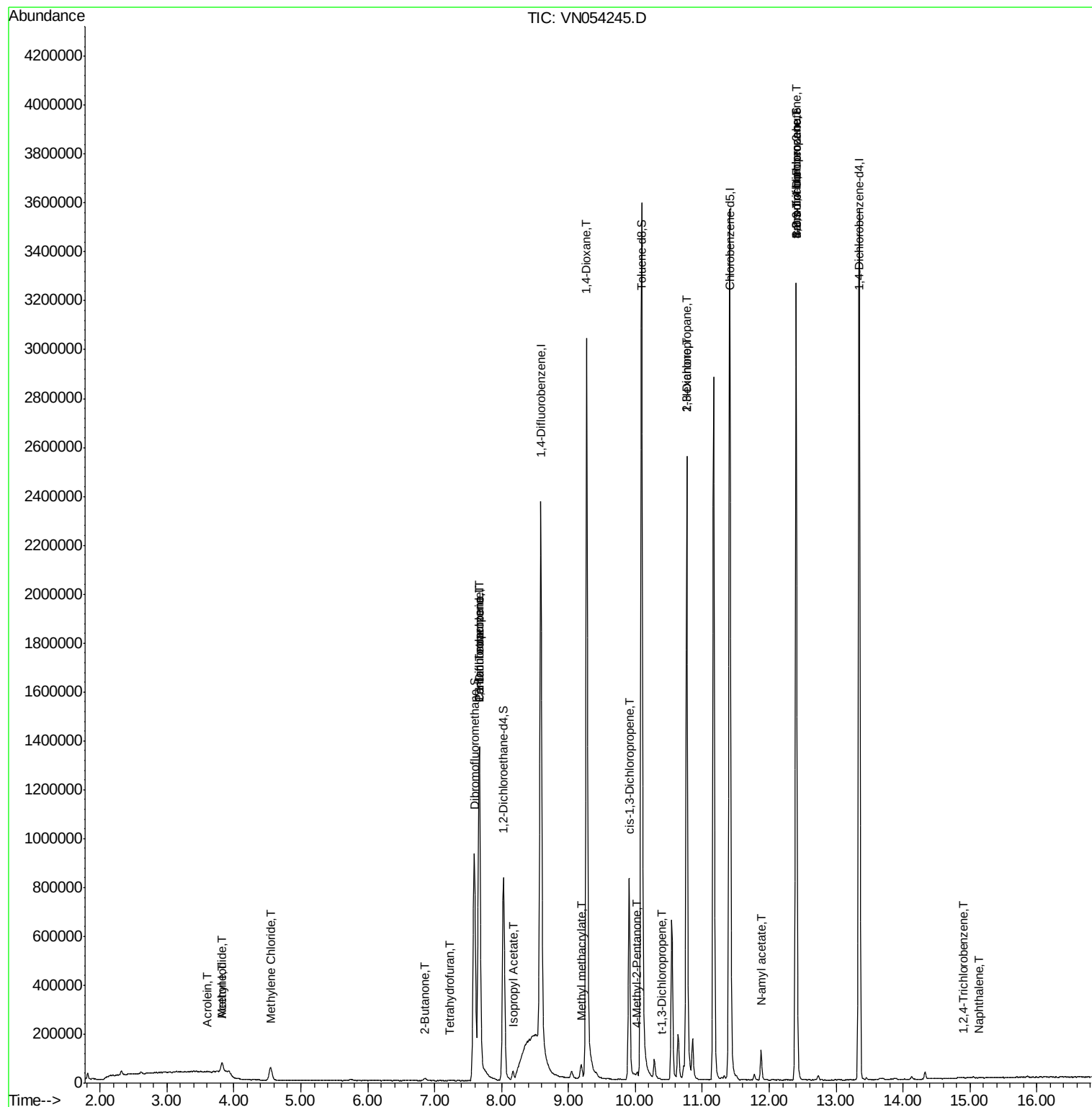
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
10) Methyl Iodide	3.84	142	70	1.500	ug/l #	45
13) Acrolein	3.60	56	1112	1.204	ug/l #	76
16) Acetone	3.82	43	59053	14.509	ug/l	98
20) Methylene Chloride	4.55	84	42431	3.175	ug/l	94
25) 2-Butanone	6.85	43	10986	2.300	ug/l	94
29) Tetrahydrofuran	7.23	42	2328	0.758	ug/l #	46
31) Cyclohexane	7.66	56	20358	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	80259	3.793	ug/l #	48
38) Carbon Tetrachloride	7.67	117	108619	4.895	ug/l #	16
43) Isopropyl Acetate	8.17	43	42028	1.969	ug/l	96
48) Methyl methacrylate	9.18	41	18543	1.712	ug/l #	11
49) 1,4-Dioxane	9.26	88	226	1.475	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	19404	1.718	ug/l #	36
53) t-1,3-Dichloropropene	10.39	75	100	1.990	ug/l #	1
54) cis-1,3-Dichloropropene	9.90	75	167416	7.054	ug/l #	63
57) 1,3-Dichloropropane	10.77	76	30088	1.313	ug/l #	43
59) 2-Hexanone	10.77	43	381159	50.720	ug/l #	50
71) Bromoform	12.40	173	7537	2.839	ug/l #	1
74) N-amyl acetate	11.88	43	38135	2.026	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	526527	33.787	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	526527	115.499	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	379	2.533	ug/l #	86
95) Naphthalene	15.13	128	1351	3.497	ug/l #	69

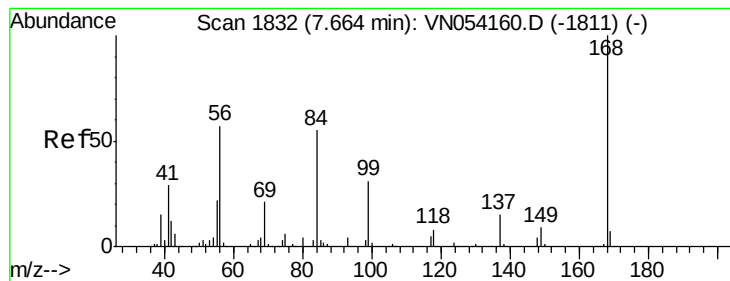
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN054245.D

Acq: 14 Mar 2019 6:36

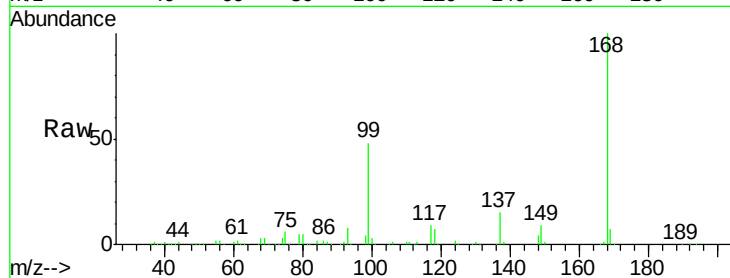
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 1338526

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): VN0

600000

500000

400000

300000

200000

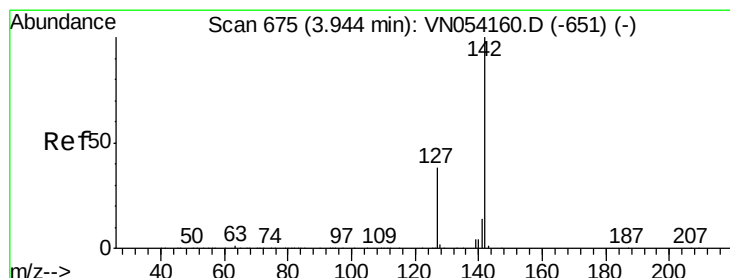
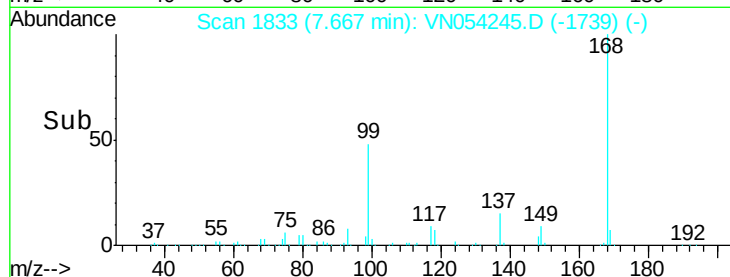
100000

0

7.67

7.60 7.70 7.80

Time-->



#10

Methyl Iodide

Concen: 1.500 ug/l

RT: 3.84 min Scan# 642

Delta R.T. -0.11 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

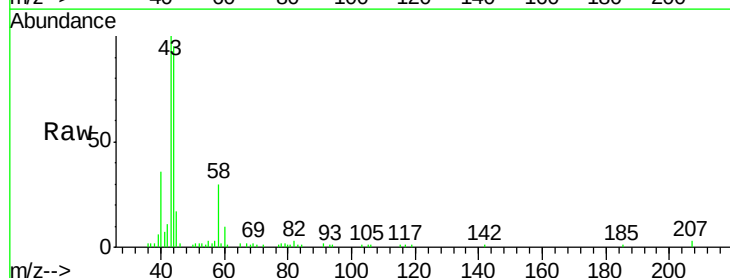
Tgt Ion:142 Resp: 70

Ion Ratio Lower Upper

142 100

127 0.0 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

250

200

150

100

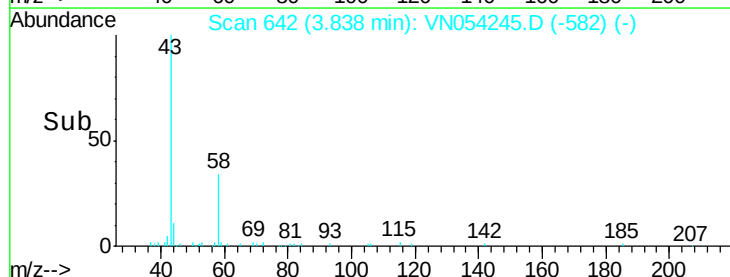
50

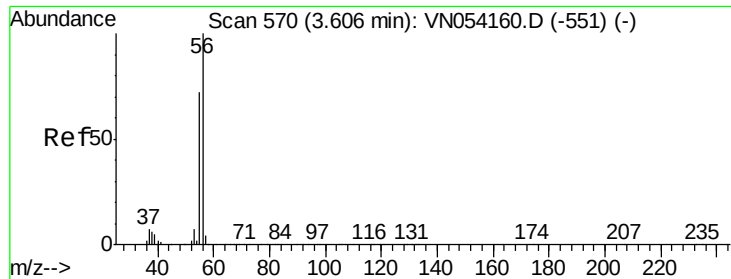
0

3.84

3.83 3.84 3.85

Time-->





#13

Acrolein

Concen: 1.204 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

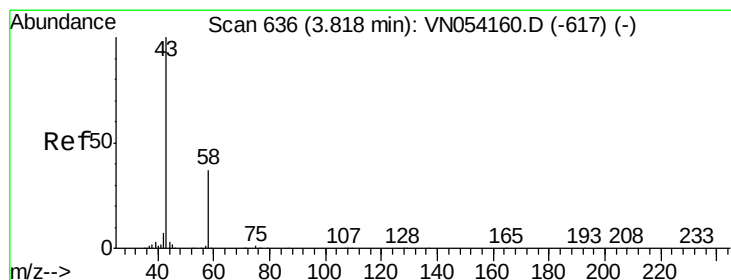
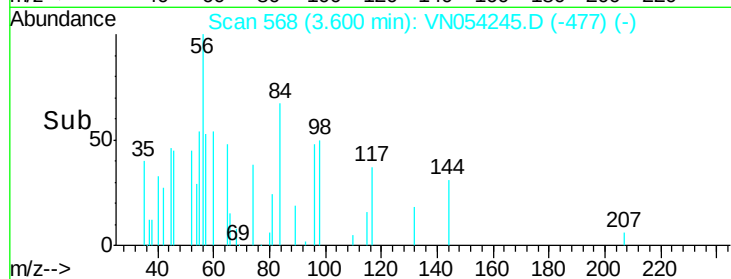
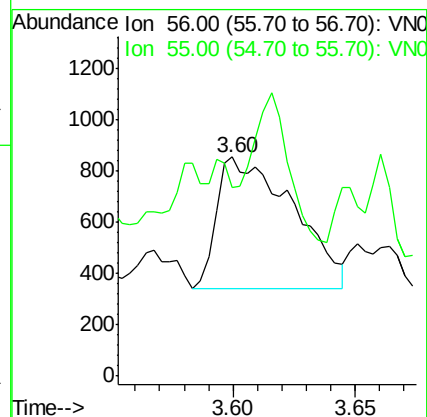
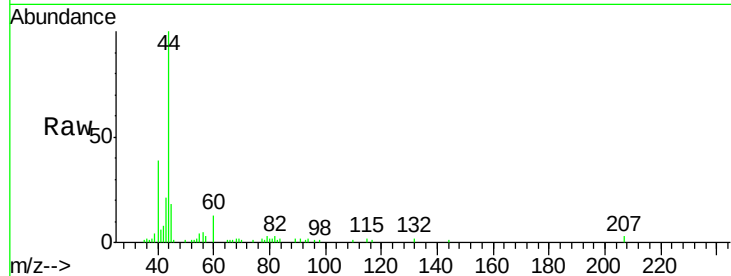
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 1112

Ion Ratio Lower Upper

56 100

55 51.1 56.7 85.1#



#16

Acetone

Concen: 14.509 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN054245.D

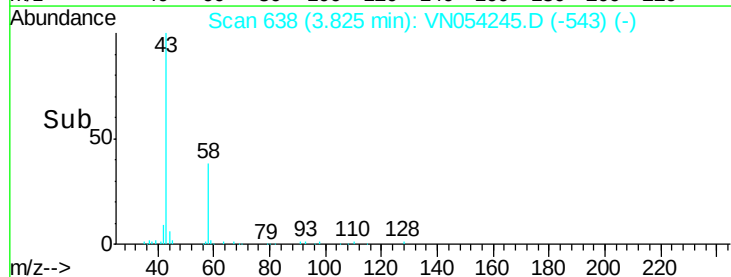
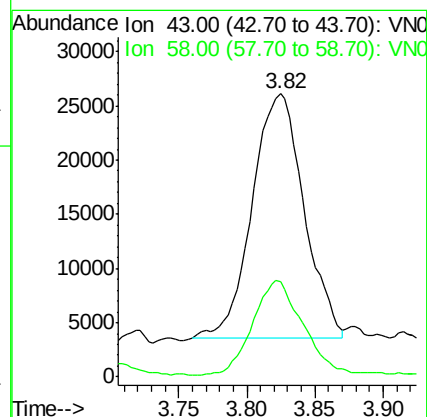
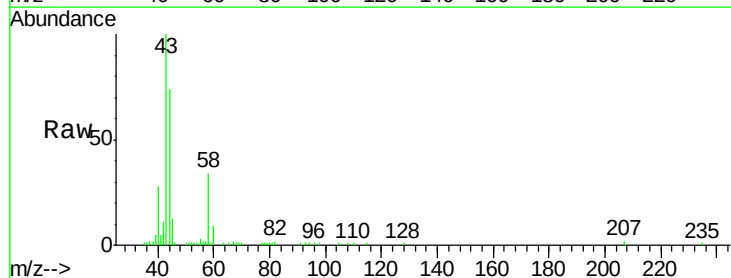
Acq: 14 Mar 2019 6:36

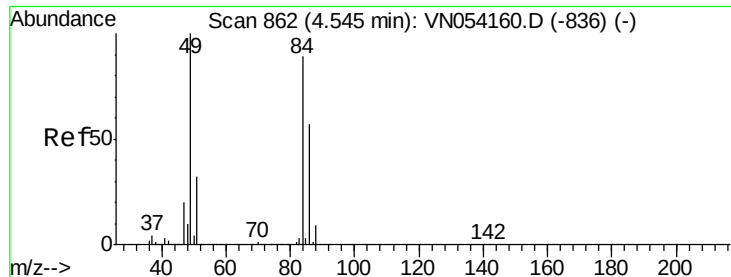
Tgt Ion: 43 Resp: 59053

Ion Ratio Lower Upper

43 100

58 38.4 29.9 44.9





#20

Methylene Chloride

Concen: 3.175 ug/l

RT: 4.55 min Scan# 863

Delta R.T. 0.00 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 84 Resp: 42431

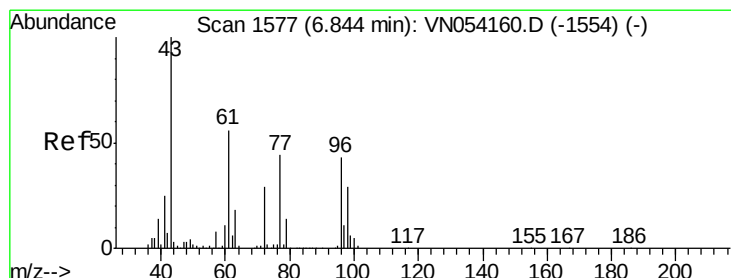
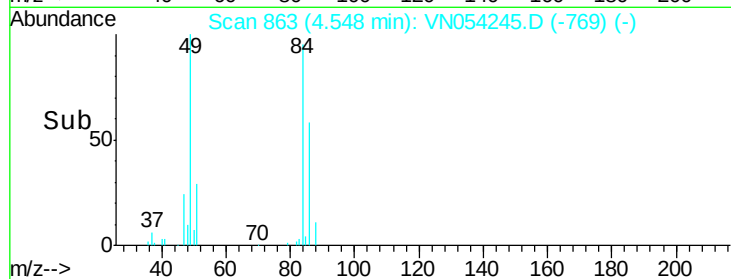
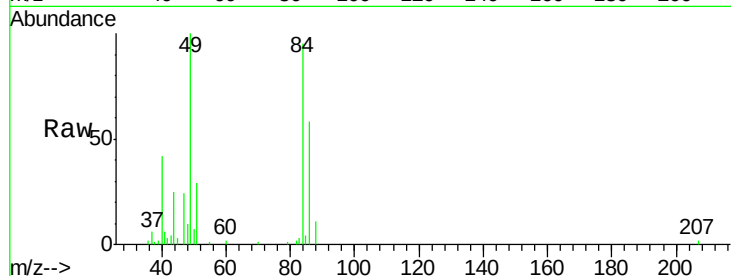
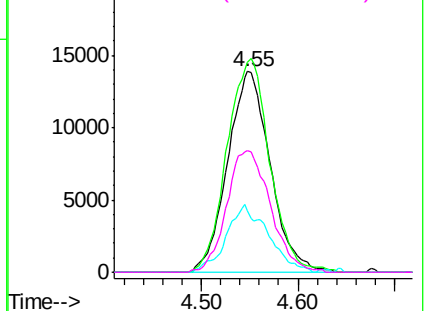
Ion	Ratio	Lower	Upper
84	100		
49	105.0	89.7	134.5
51	30.9	28.2	42.4
86	60.6	50.8	76.2

Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 2.300 ug/l

RT: 6.85 min Scan# 1580

Delta R.T. 0.01 min

Lab File: VN054245.D

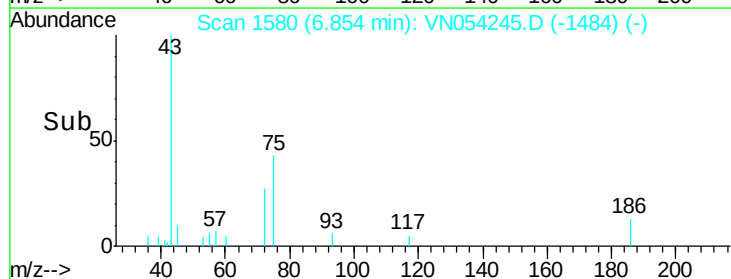
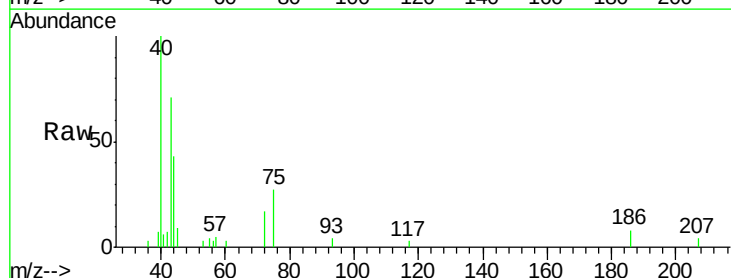
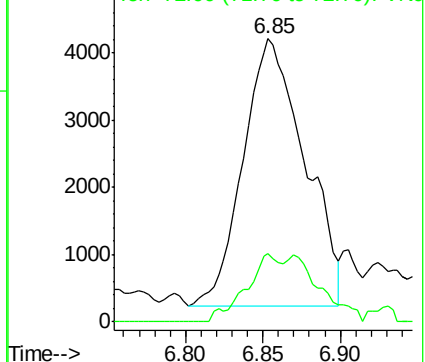
Acq: 14 Mar 2019 6:36

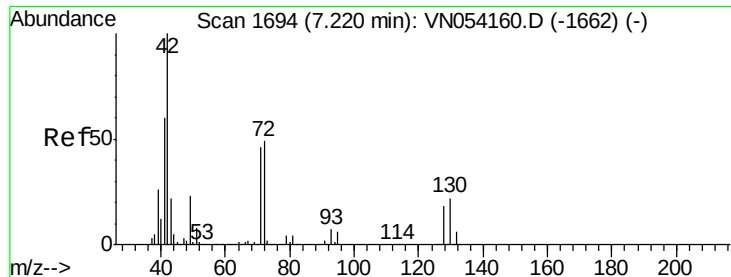
Tgt Ion: 43 Resp: 10986

Ion	Ratio	Lower	Upper
43	100		
72	25.6	23.0	34.6

Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

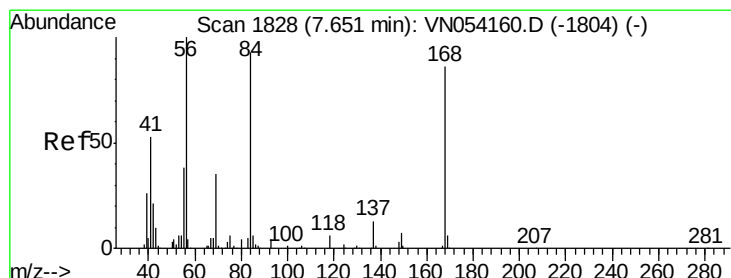
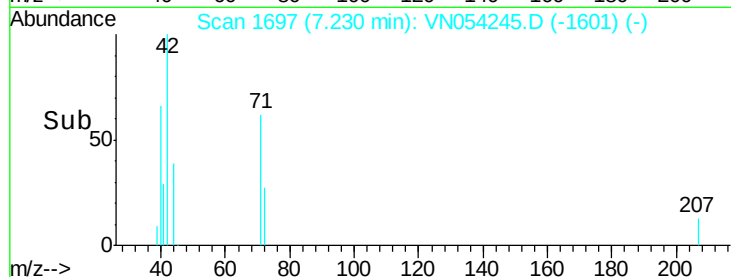
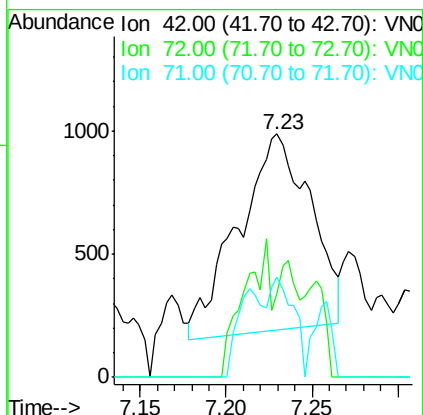
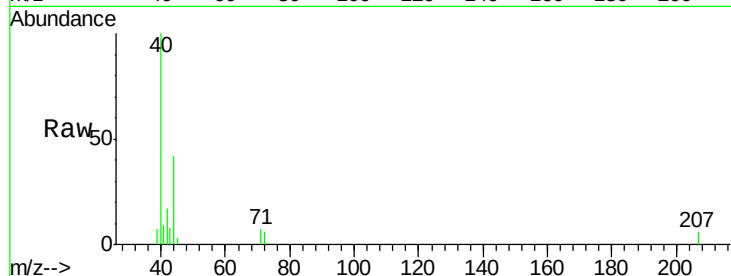




#29
Tetrahydrofuran
Concen: 0.758 ug/l
RT: 7.23 min Scan# 1697
Delta R.T. 0.01 min
Lab File: VN054245.D
Acq: 14 Mar 2019 6:36

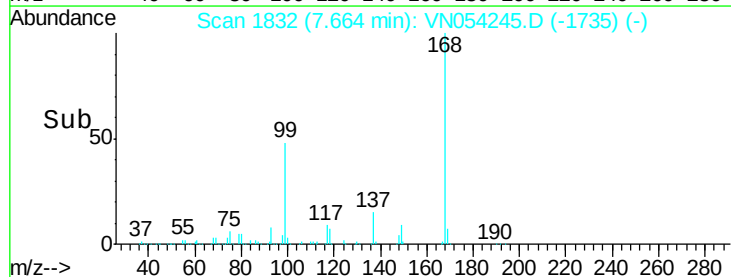
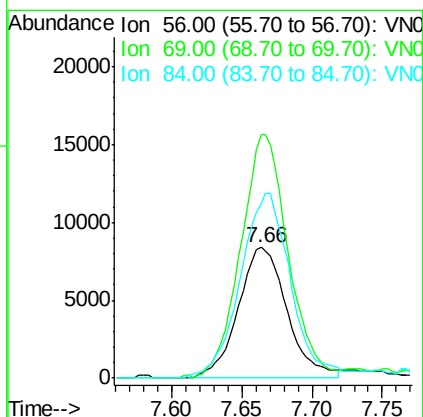
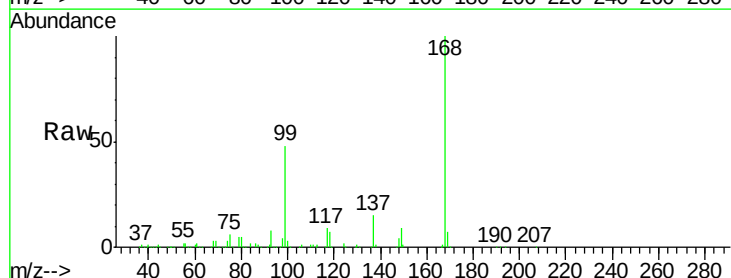
Instrument :
MSVOA_N
ClientSampleId :

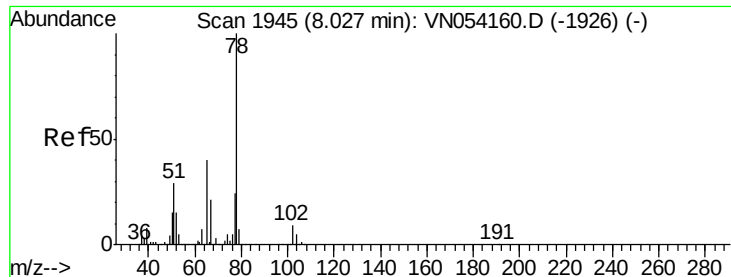
Tot Ion: 42 Resp: 2328
Ion Ratio Lower Upper
42 100
72 4.4 37.8 56.6#
71 16.2 36.2 54.2#



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054245.D
Acq: 14 Mar 2019 6:36

Tgt Ion: 56 Resp: 20358
Ion Ratio Lower Upper
56 100
69 184.2 27.8 41.6#
84 131.5 74.6 111.8#

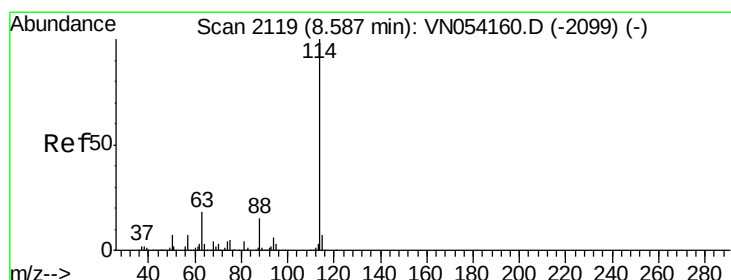
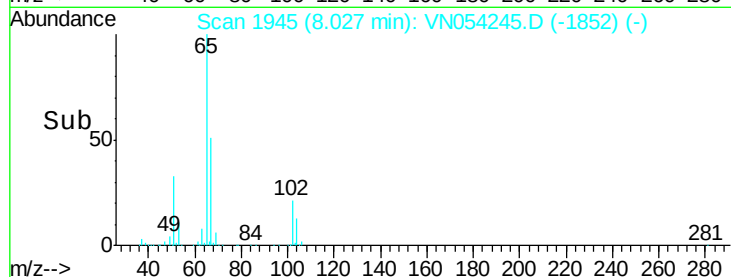
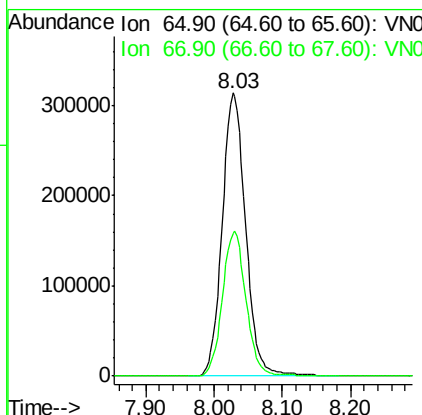
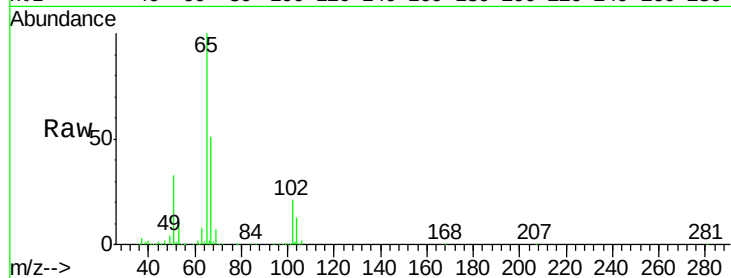




#33
 1,2-Dichloroethane-d4
 Concen: 52.718 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN054245.D
 Acq: 14 Mar 2019 6:36

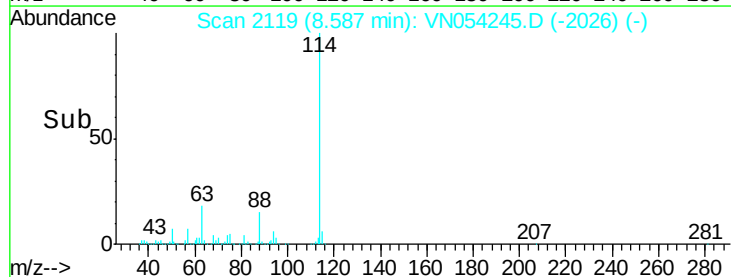
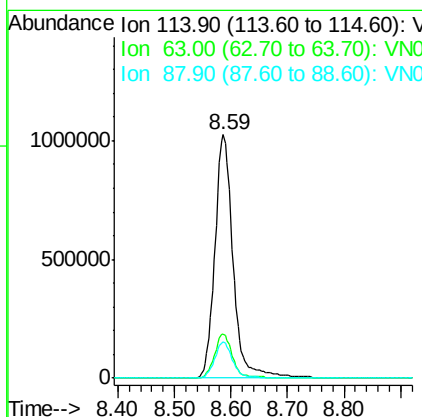
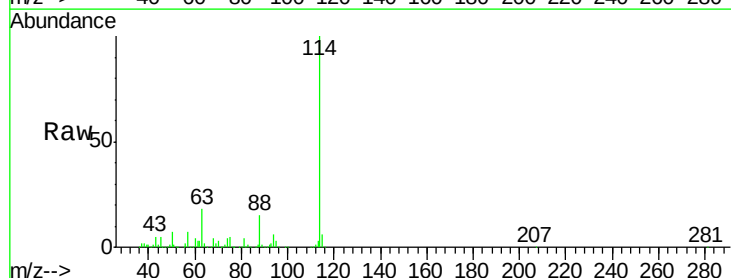
Instrument :
 MSVOA_N
 ClientSampleId :

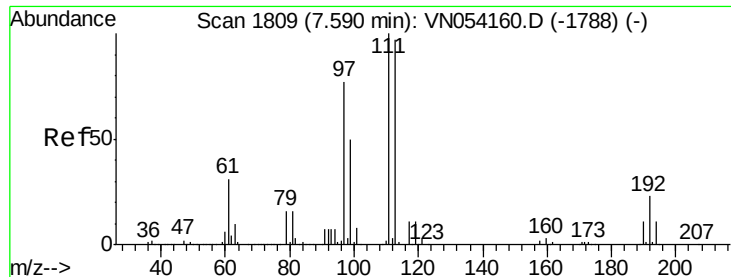
Tot Ion: 65 Resp: 749400
 Ion Ratio Lower Upper
 65 100
 67 51.5 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054245.D
 Acq: 14 Mar 2019 6:36

Tgt Ion: 114 Resp: 2297722
 Ion Ratio Lower Upper
 114 100
 63 18.3 0.0 35.2
 88 14.7 0.0 30.2

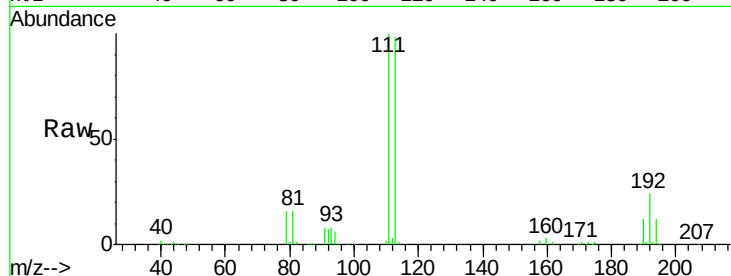




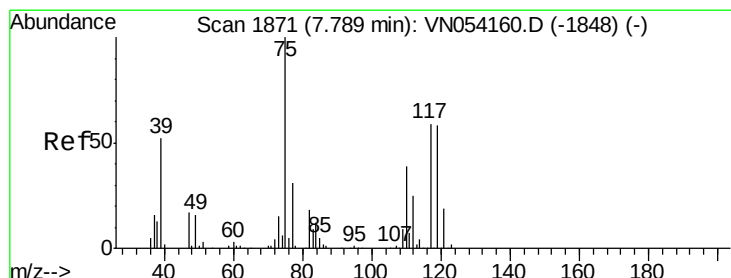
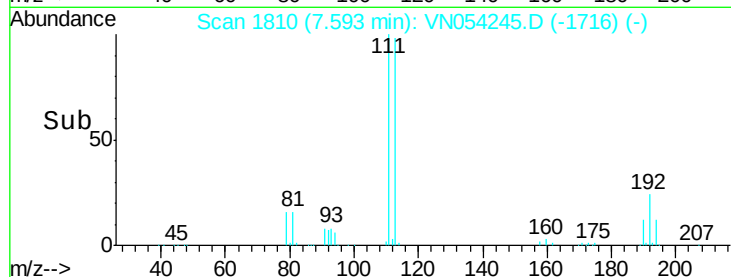
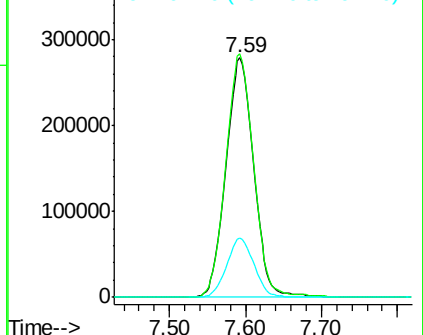
#35
 Dibromofluoromethane
 Concen: 48.017 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054245.D
 Acq: 14 Mar 2019 6:36

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:113 Resp: 711575
 Ion Ratio Lower Upper
 113 100
 111 101.4 82.2 123.4
 192 24.2 19.2 28.8

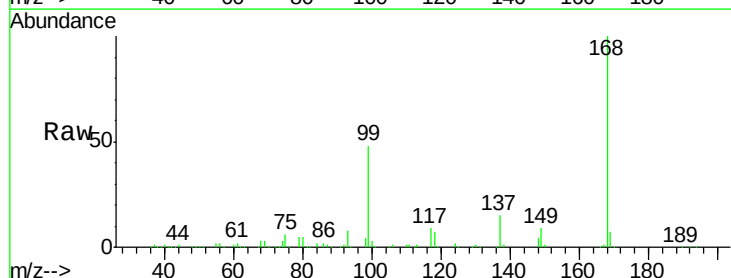


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

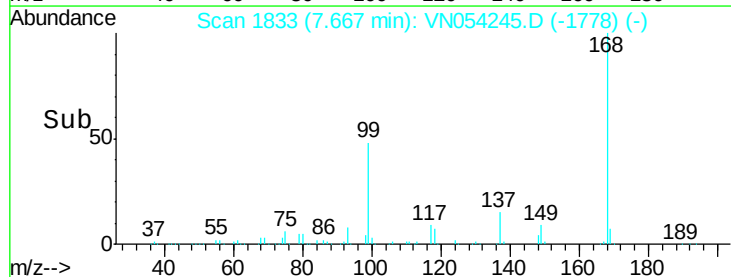
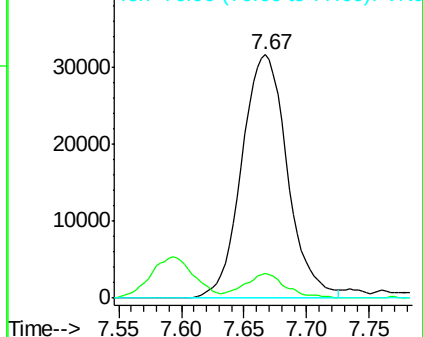


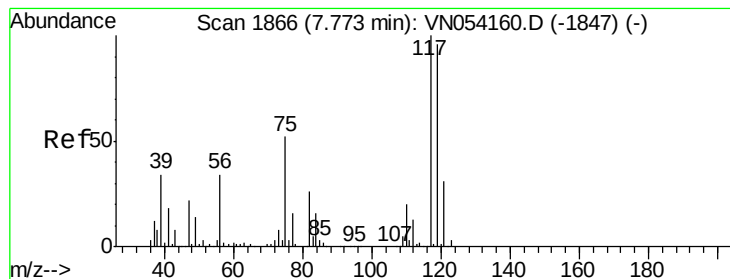
#36
 1,1-Dichloropropene
 Concen: 3.793 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.12 min
 Lab File: VN054245.D
 Acq: 14 Mar 2019 6:36

Tgt Ion: 75 Resp: 80259
 Ion Ratio Lower Upper
 75 100
 110 9.3 19.1 57.5#
 77 0.0 25.0 37.4#



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





#38

Carbon Tetrachloride

Concen: 4.895 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

Instrument :

MSVOA_N

ClientSampleId :

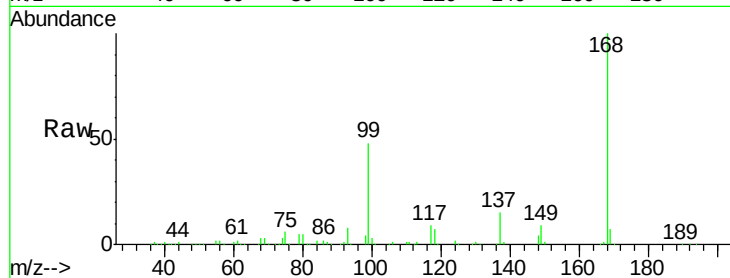
Tot Ion:117 Resp: 108619

Ion Ratio Lower Upper

117 100

119 4.7 76.3 114.5#

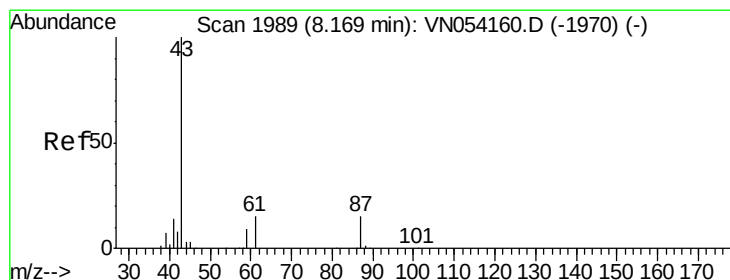
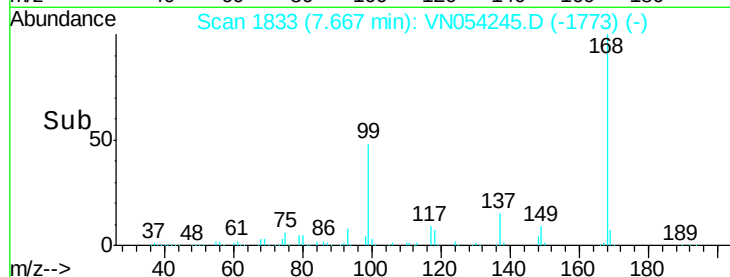
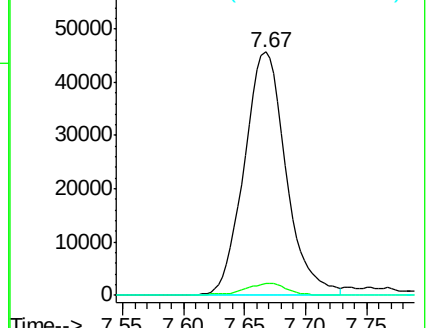
121 0.0 24.6 36.8#



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: 1.969 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

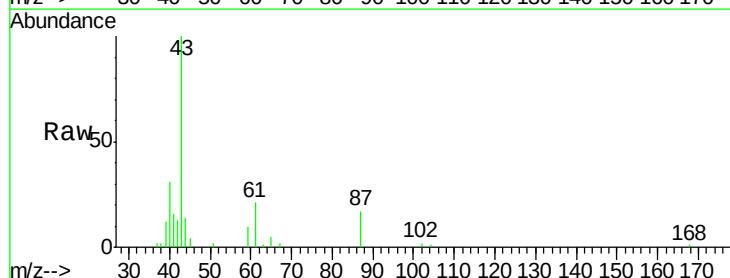
Tgt Ion: 43 Resp: 42028

Ion Ratio Lower Upper

43 100

61 21.9 15.8 23.8

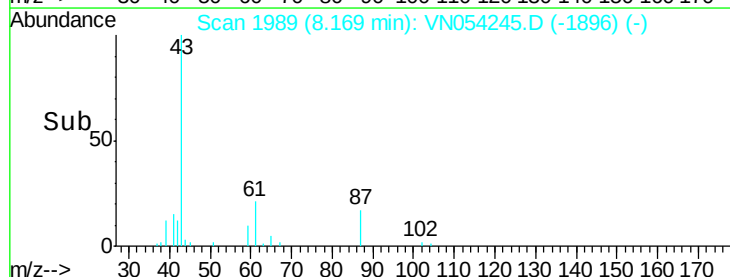
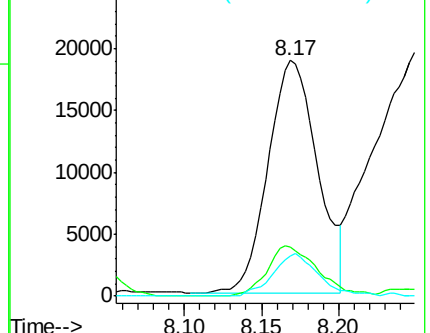
87 16.6 12.0 18.0

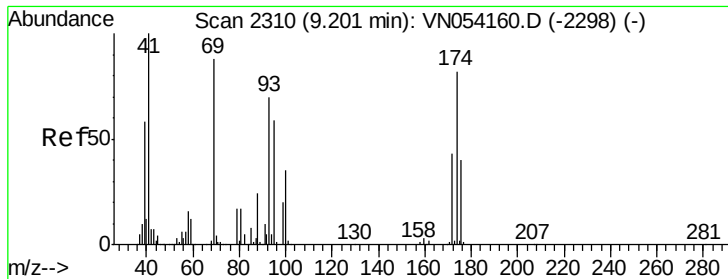


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

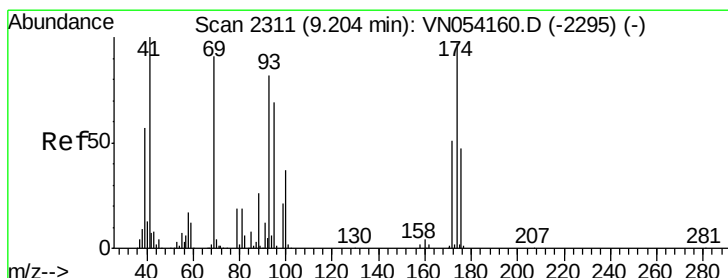
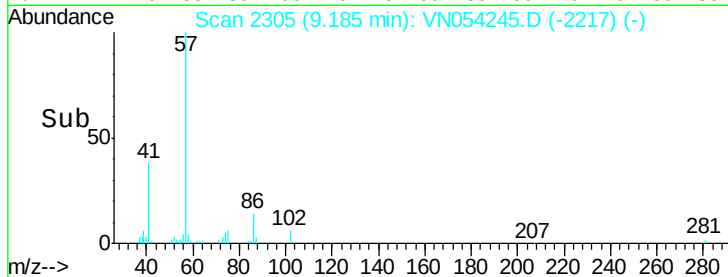
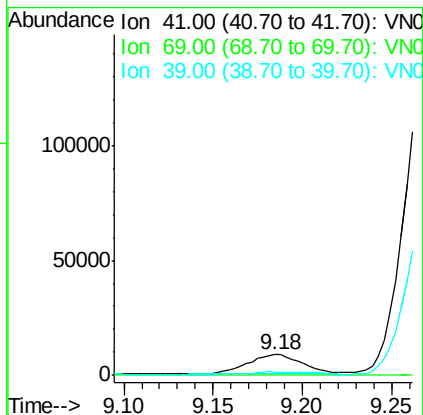
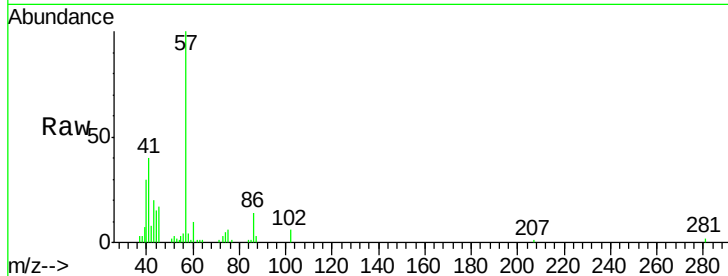




#48
Methvl methacrylate
Concen: 1.712 ug/l
RT: 9.18 min Scan# 2305
Delta R.T. -0.02 min
Lab File: VN054245.D
Acq: 14 Mar 2019 6:36

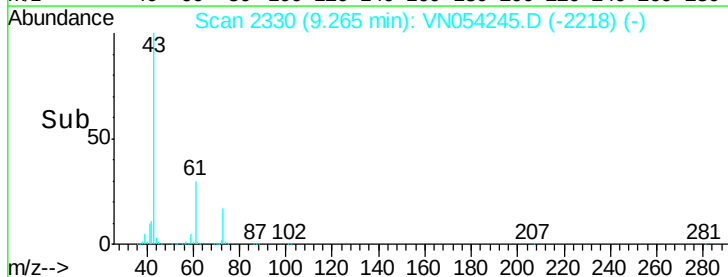
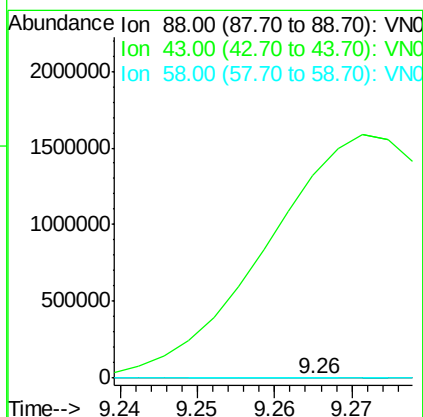
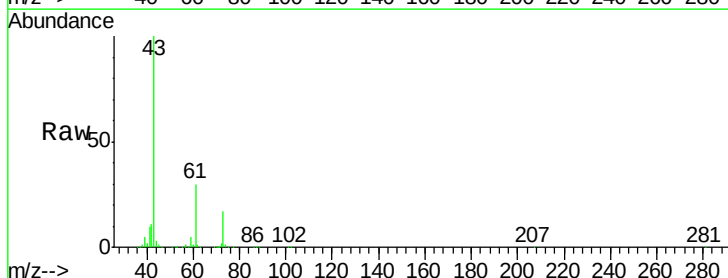
Instrument :
MSVOA_N
ClientSampled :

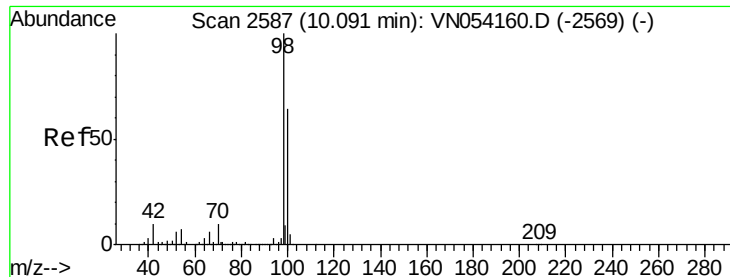
Tot Ion: 41 Resp: 18543
Ion Ratio Lower Upper
41 100
69 0.2 72.6 108.8#
39 0.0 47.5 71.3#



#49
1,4-Dioxane
Concen: 1.475 ug/l
RT: 9.26 min Scan# 2330
Delta R.T. 0.06 min
Lab File: VN054245.D
Acq: 14 Mar 2019 6:36

Tgt Ion: 88 Resp: 226
Ion Ratio Lower Upper
88 100
43 1384992.0 24.1 36.1#
58 5888.5 50.8 76.2#





#50

Toluene-d8

Concen: 52.038 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

Instrument :

MSVOA_N

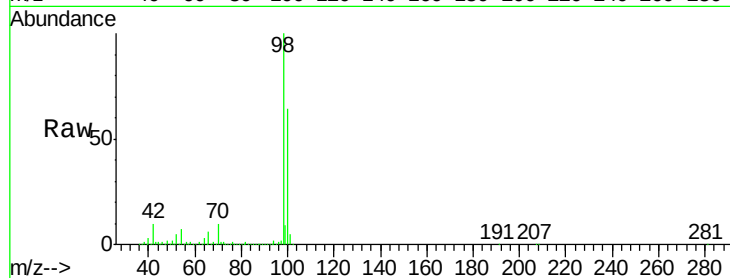
ClientSampleId :

Tot Ion: 98 Resp: 2848028

Ion Ratio Lower Upper

98 100

100 64.2 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

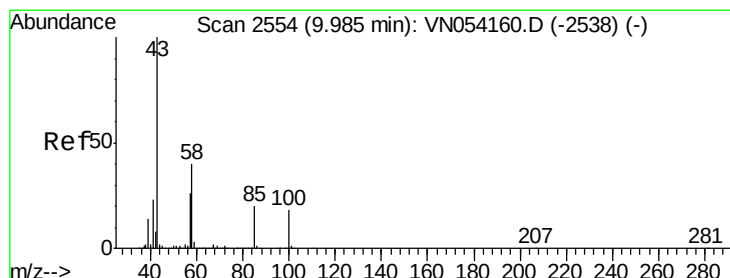
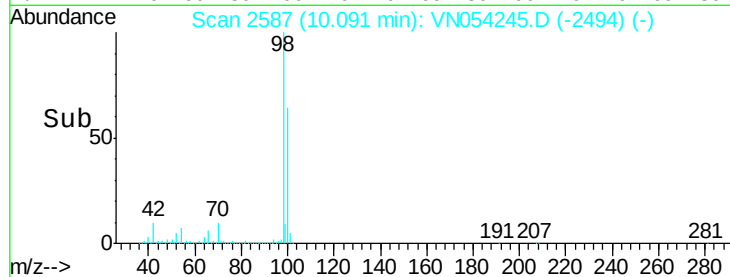
1500000

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 1.718 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN054245.D

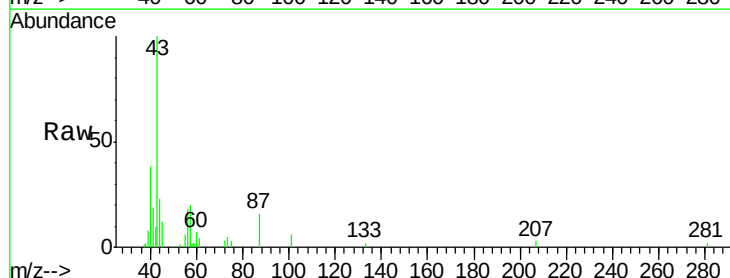
Acq: 14 Mar 2019 6:36

Tgt Ion: 43 Resp: 19404

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

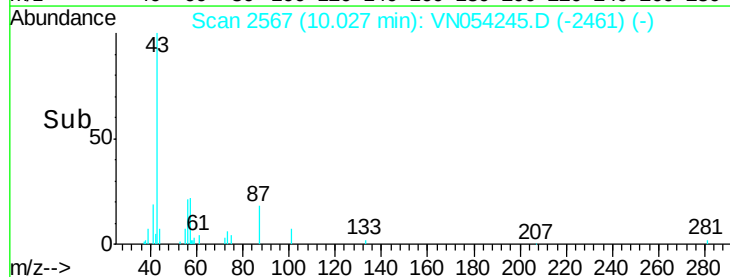
15000

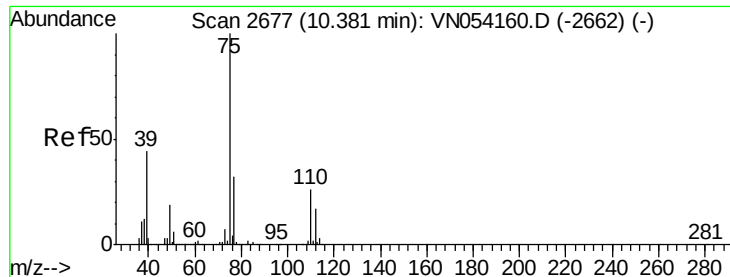
10000

5000

0

Time-->





#53

t-1,3-Dichloropropene

Concen: 1.990 ug/l

RT: 10.39 min Scan# 2680

Delta R.T. 0.01 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

Instrument :

MSVOA_N

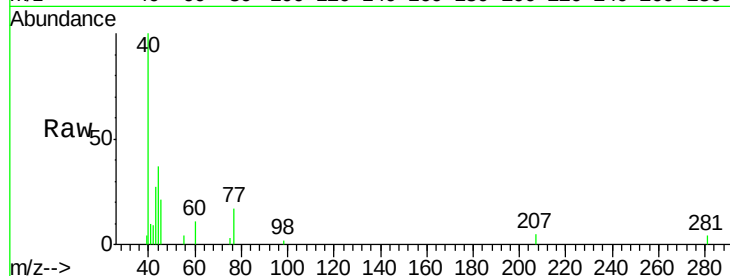
ClientSampleId :

Tot Ion: 75 Resp: 100

Ion Ratio Lower Upper

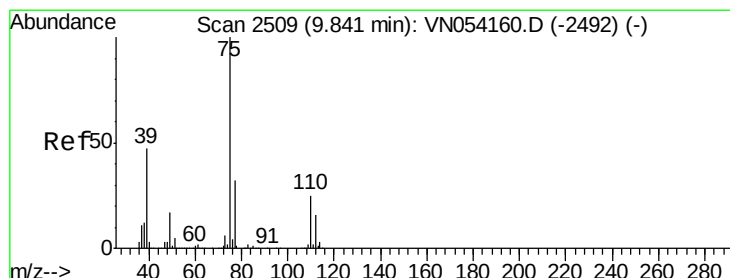
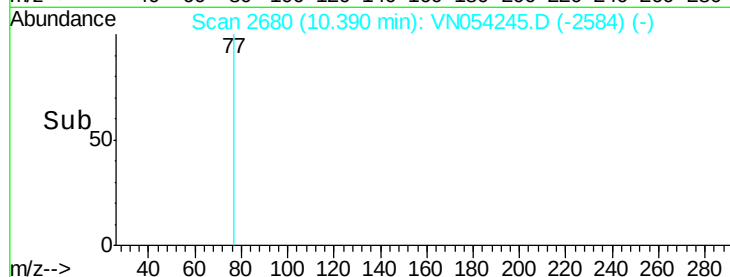
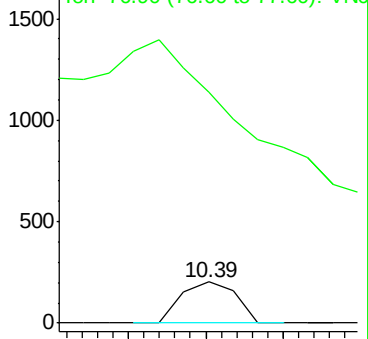
75 100

77 133.2 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: 7.054 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

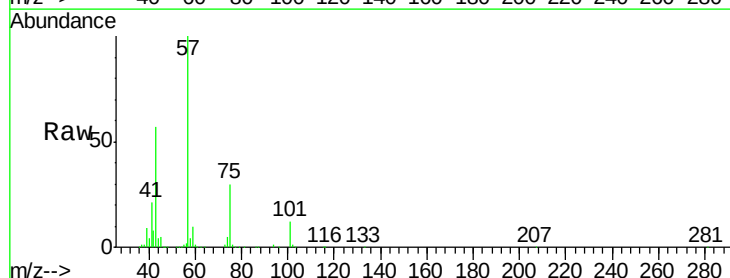
Tgt Ion: 75 Resp: 167416

Ion Ratio Lower Upper

75 100

77 0.4 25.4 38.0#

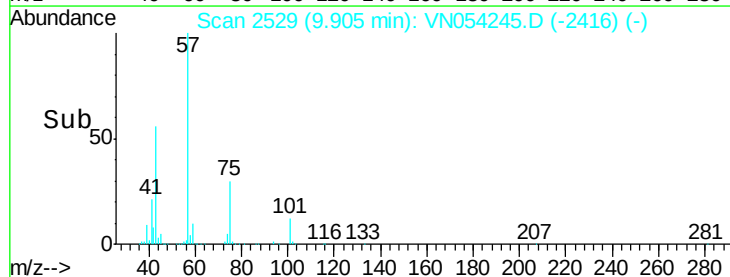
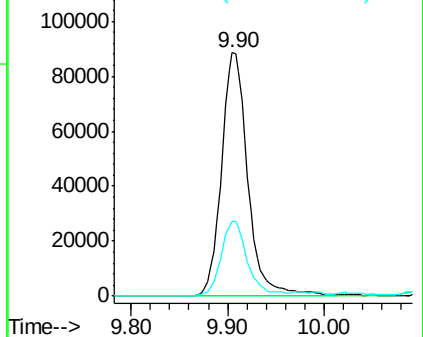
39 30.2 37.2 55.8#

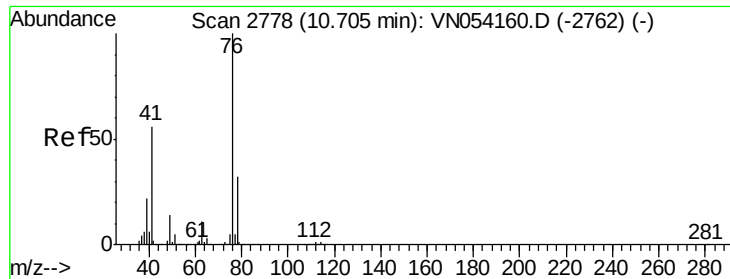


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.313 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.06 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

Instrument :

MSVOA_N

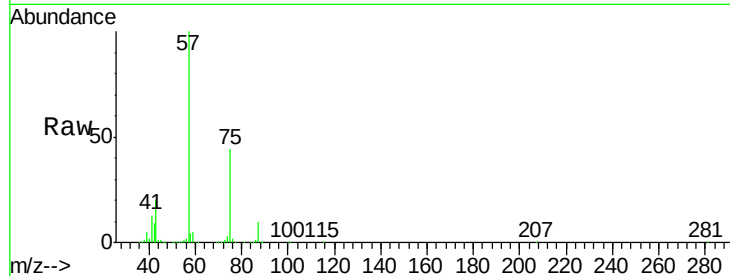
ClientSampled :

Tot Ion: 76 Resp: 30088

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.77

20000

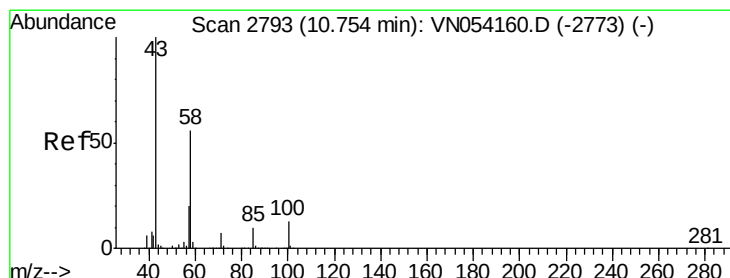
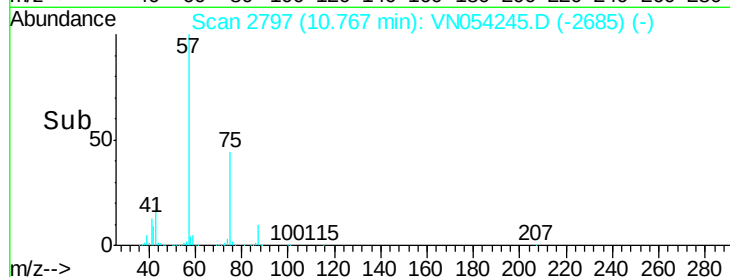
15000

10000

5000

0

Time-->



#59

2-Hexanone

Concen: 50.720 ug/l

RT: 10.77 min Scan# 2797

Delta R.T. 0.01 min

Lab File: VN054245.D

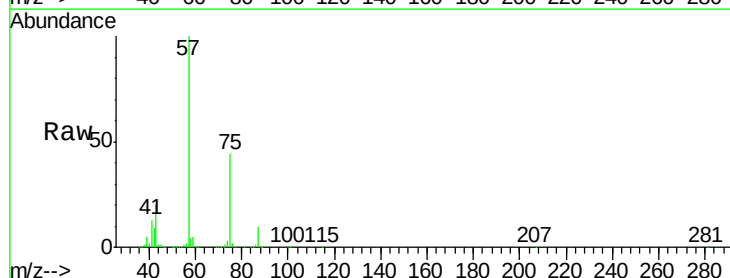
Acq: 14 Mar 2019 6:36

Tgt Ion: 43 Resp: 381159

Ion Ratio Lower Upper

43 100

58 19.3 28.0 83.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

10.77

250000

200000

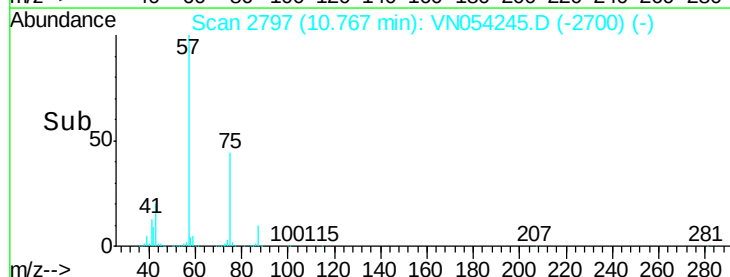
150000

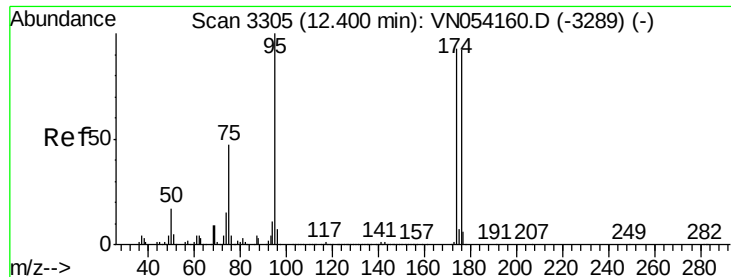
100000

50000

0

Time-->





#62

4-Bromofluorobenzene

Concen: 57.039 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

Instrument :

MSVOA_N

ClientSampled :

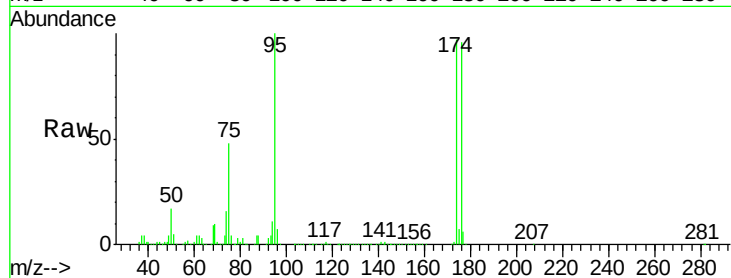
Tot Ion: 95 Resp: 1092302

Ion Ratio Lower Upper

95 100

174 97.5 0.0 191.0

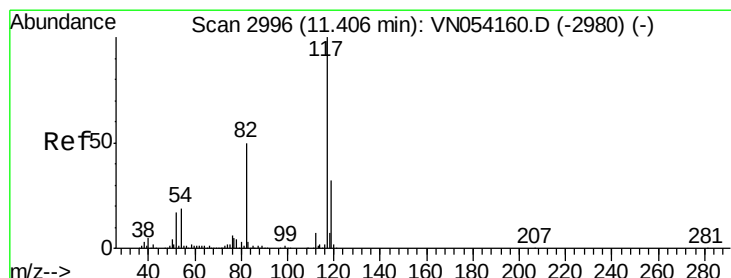
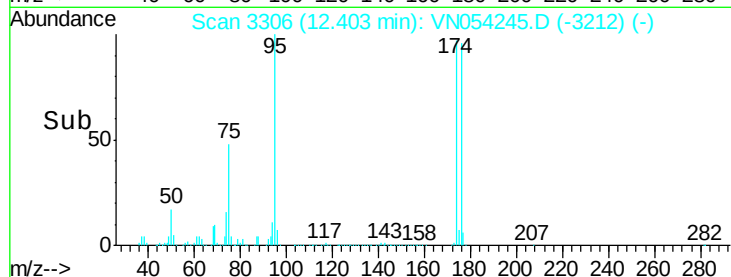
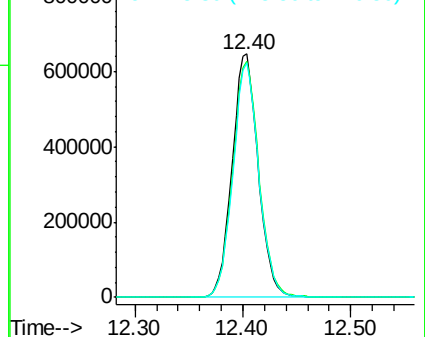
176 95.4 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054160.D (-3289) (-)

Ion 173.80 (173.50 to 174.50): VN054160.D (-3289) (-)

Ion 175.80 (175.50 to 176.50): VN054160.D (-3289) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

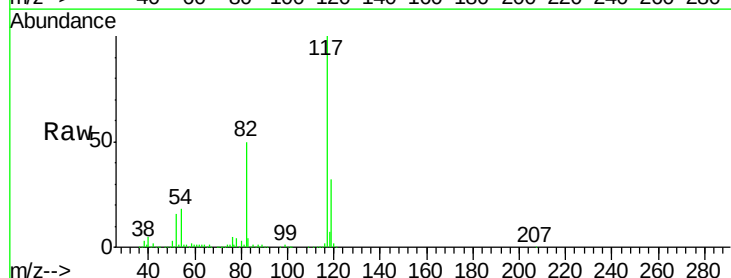
Tgt Ion: 117 Resp: 2417643

Ion Ratio Lower Upper

117 100

82 50.1 40.0 60.0

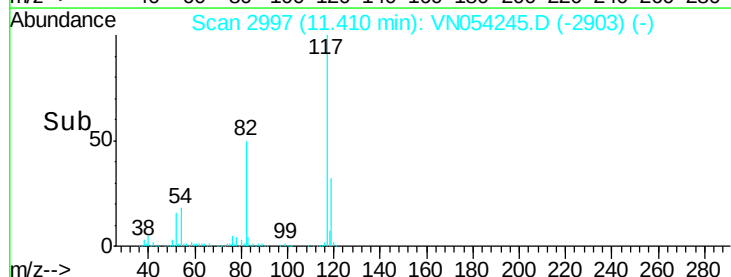
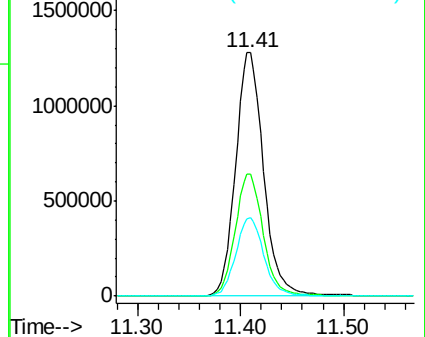
119 32.2 25.8 38.6

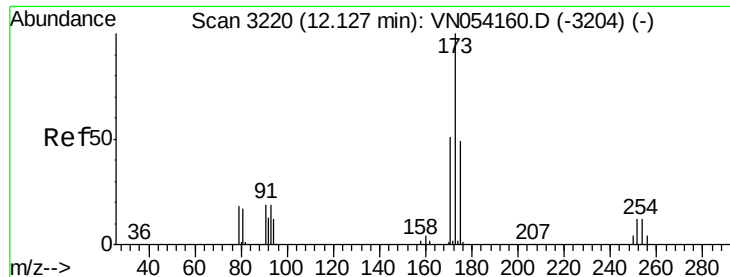


Abundance Ion 116.90 (116.60 to 117.60): VN054160.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN054160.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN054160.D (-2980) (-)





#71

Bromoform

Concen: 2.839 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

Instrument :

MSVOA_N

ClientSampleId :

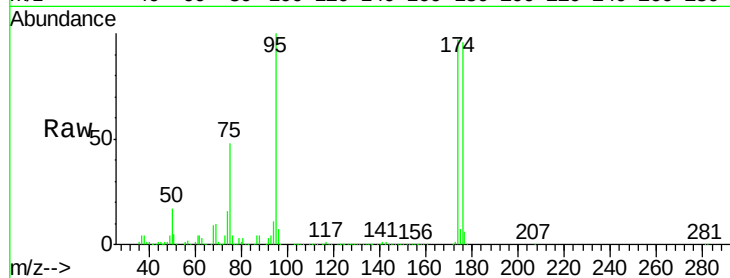
Tot Ion:173 Resp: 7537

Ion Ratio Lower Upper

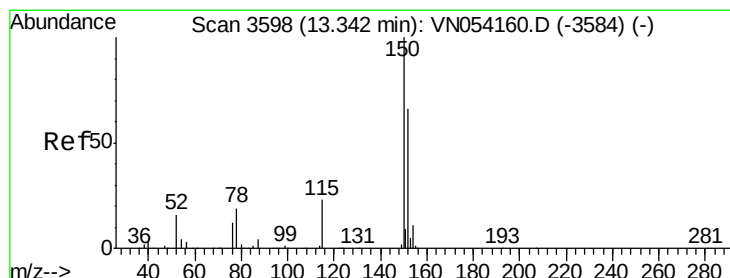
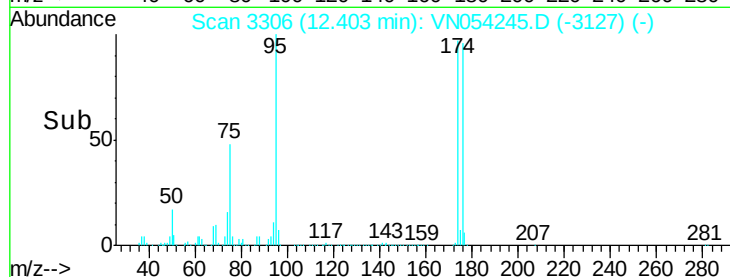
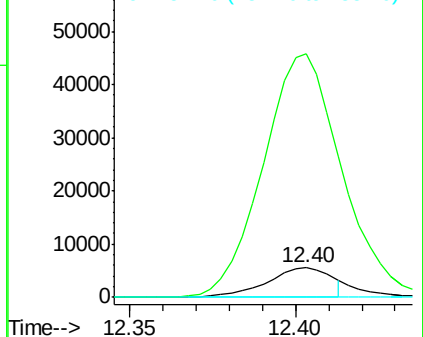
173 100

175 860.2 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: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN054245.D

Acq: 14 Mar 2019 6:36

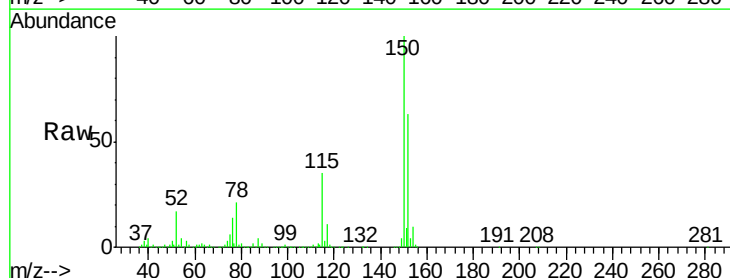
Tgt Ion:152 Resp: 1059727

Ion Ratio Lower Upper

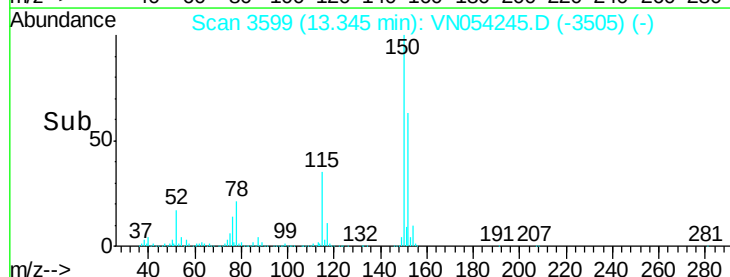
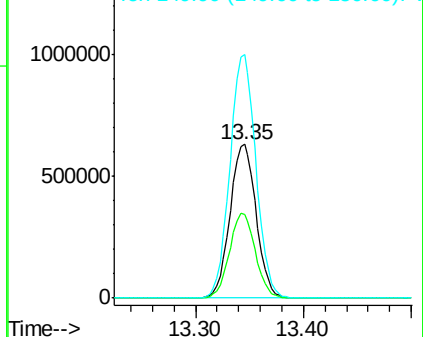
152 100

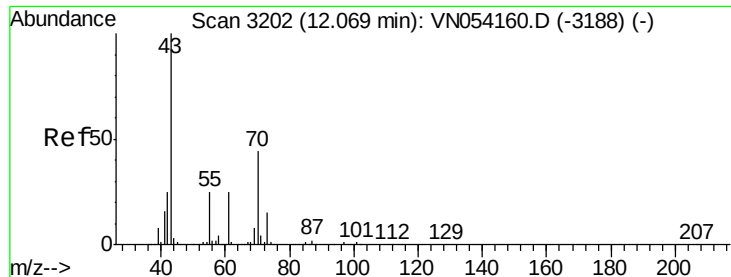
115 54.5 27.2 81.6

150 157.4 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

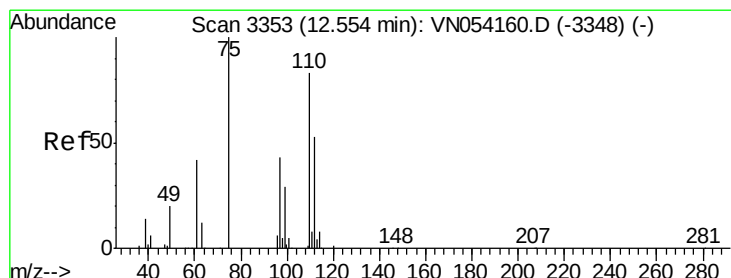
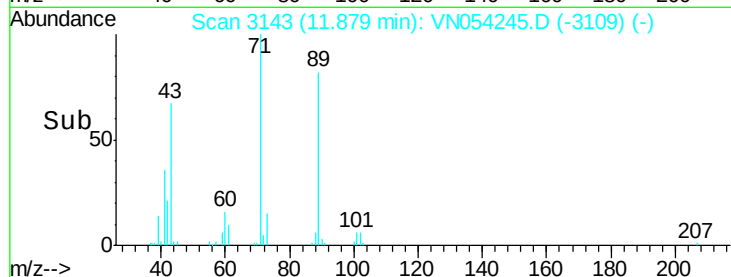
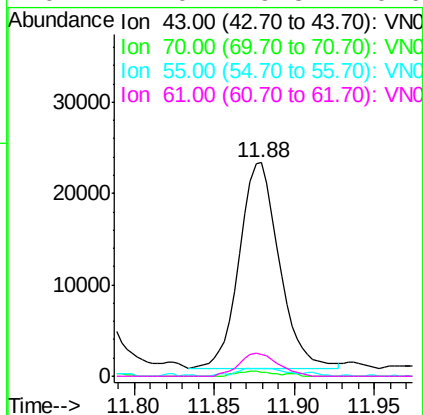
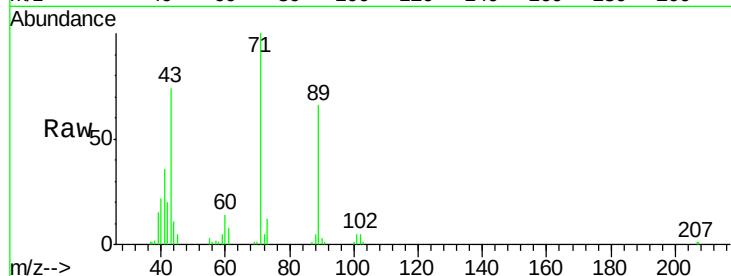




#74
N-amvl acetate
Concen: 2.026 ug/l
RT: 11.88 min Scan# 3143
Delta R.T. -0.19 min
Lab File: VN054245.D
Acq: 14 Mar 2019 6:36

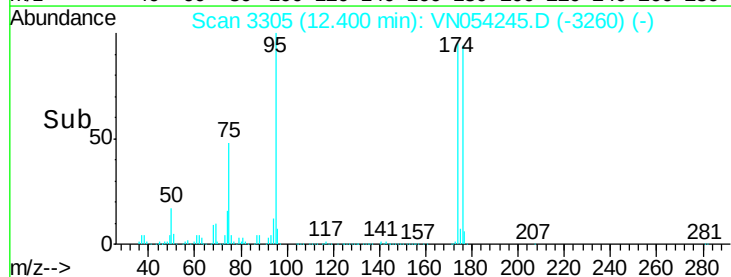
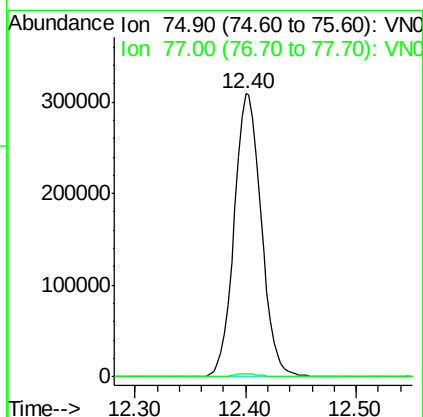
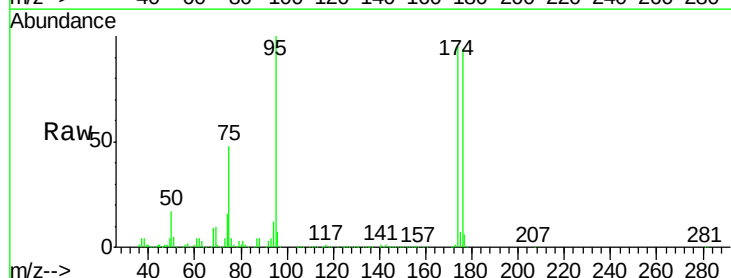
Instrument :
MSVOA_N
ClientSampleId :

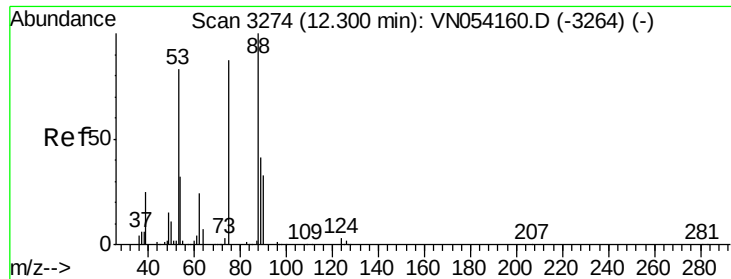
Tot Ion: 43 Resp: 38135
Ion Ratio Lower Upper
43 100
70 2.0 35.4 53.0#
55 4.8 19.8 29.6#
61 11.0 19.8 29.6#



#76
1,2,3-Trichloropropane
Concen: 33.787 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN054245.D
Acq: 14 Mar 2019 6:36

Tgt Ion: 75 Resp: 526527
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#

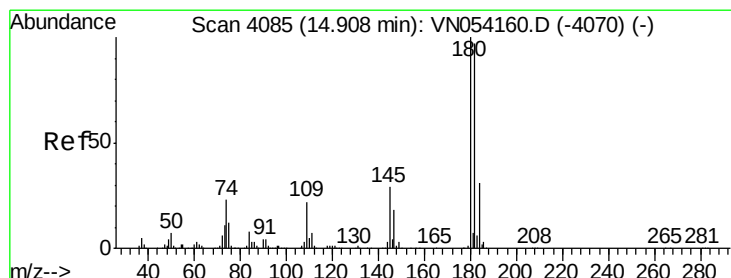
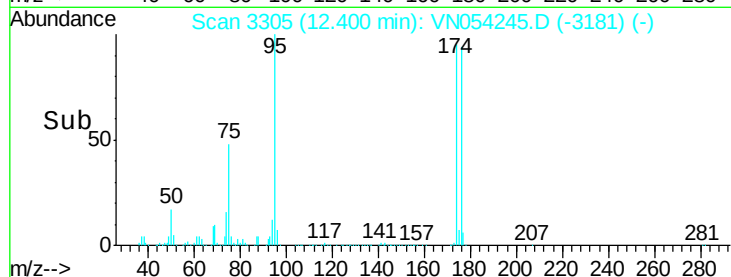
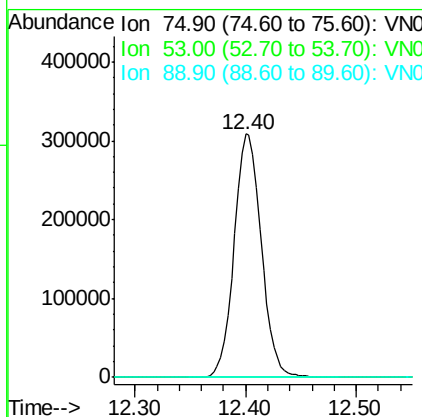
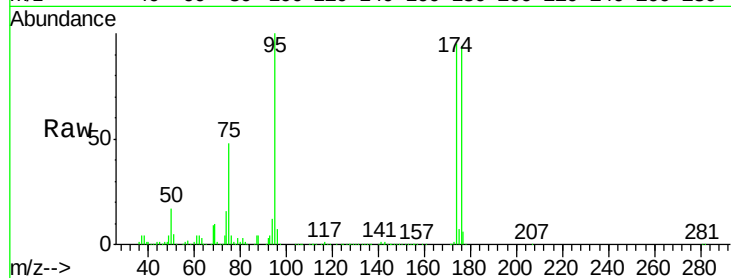




#81
trans-1,4-Dichloro-2-butene
Concen: 115.499 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054245.D
Acq: 14 Mar 2019 6:36

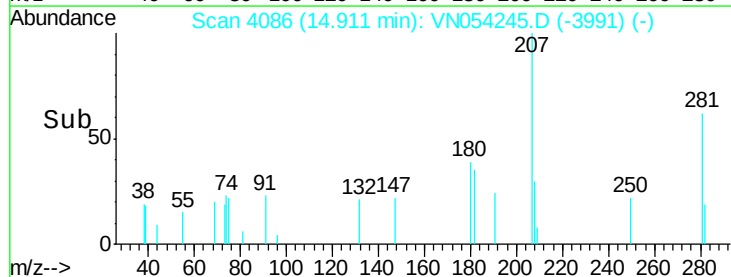
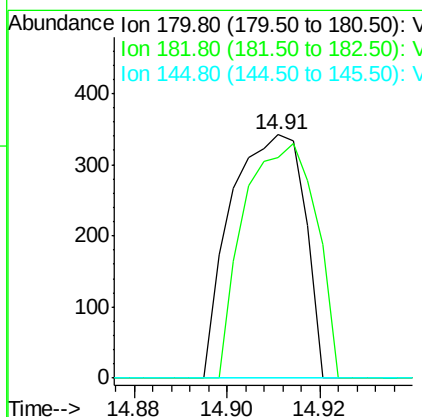
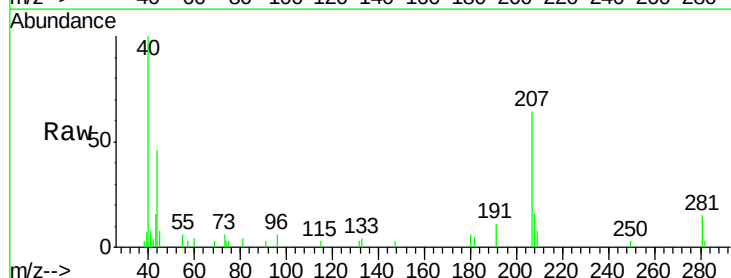
Instrument :
MSVOA_N
ClientSampled :

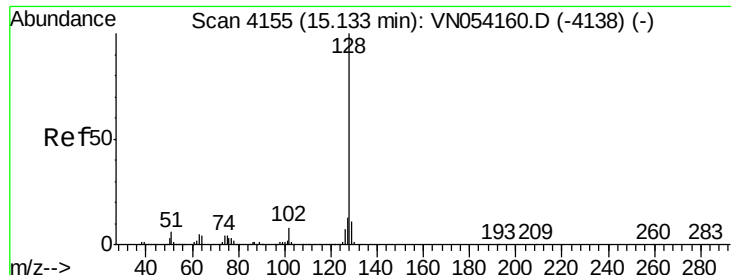
Tot Ion: 75 Resp: 526527
Ion Ratio Lower Upper
75 100
53 0.0 76.2 114.2#
89 0.0 39.2 58.8#



#93
1,2,4-Trichlorobenzene
Concen: 2.533 ug/l
RT: 14.91 min Scan# 4086
Delta R.T. 0.00 min
Lab File: VN054245.D
Acq: 14 Mar 2019 6:36

Tgt Ion: 180 Resp: 379
Ion Ratio Lower Upper
180 100
182 93.9 48.0 144.2
145 0.0 14.2 42.8#

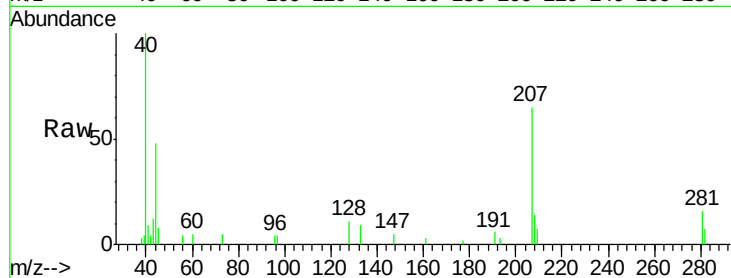




#95
Naphthalene
Concen: 3.497 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN054245.D
Acq: 14 Mar 2019 6:36

Instrument :
MSVOA_N
ClientSampleId :

Tot 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

