

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN011520\
 Data File : VN059715.D
 Acq On : 15 Jan 2020 12:36
 Operator : JC/MD
 Sample : L1005-05
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 HR-05-011420

Quant Time: Jan 16 03:42:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N011320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 14 08:58:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	194753	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	292062	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	251555	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	112092	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	101634	46.99	ug/l	0.00
Spiked Amount			Recovery	=	93.98%	
35) Dibromofluoromethane	7.57	113	88799	50.98	ug/l	0.00
Spiked Amount			Recovery	=	101.96%	
50) Toluene-d8	10.08	98	329669	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
62) 4-Bromofluorobenzene	12.40	95	115924	47.65	ug/l	0.00
Spiked Amount			Recovery	=	95.30%	

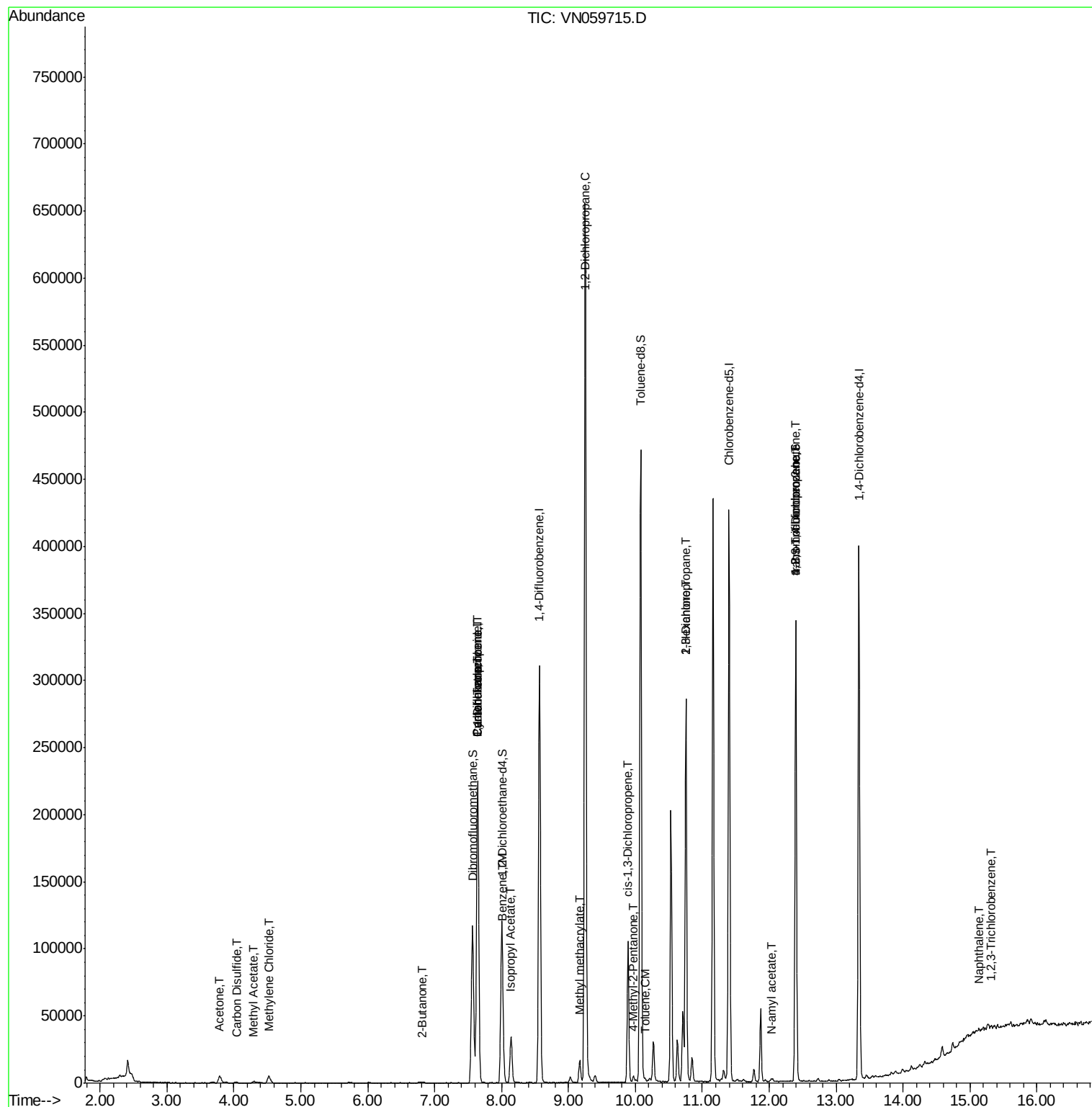
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	10051	3.766	ug/l	99
17) Carbon Disulfide	4.03	76	1130	0.223	ug/l #	75
18) Methyl Acetate	4.30	43	2447	0.969	ug/l #	69
20) Methylene Chloride	4.52	84	4132	0.839	ug/l #	82
25) 2-Butanone	6.82	43	519	0.424	ug/l #	50
31) Cyclohexane	7.64	56	3666	1.146	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	13294	5.227	ug/l #	47
38) Carbon Tetrachloride	7.64	117	18171	6.568	ug/l #	16
40) Benzene	8.03	78	5788	0.763	ug/l	98
43) Isopropyl Acetate	8.14	43	40733	9.927	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	745	0.397	ug/l #	44
48) Methyl methacrylate	9.17	41	2435	1.327	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	2921	1.232	ug/l	94
52) Toluene	10.14	92	1227	0.256	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	19896	6.347	ug/l #	57
57) 1,3-Dichloropropane	10.75	76	3271	1.086	ug/l #	42
59) 2-Hexanone	10.75	43	40516	23.187	ug/l #	54
74) N-amyl acetate	12.03	43	1808	0.567	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	58164	30.833	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	58164	66.215	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.26	75	93	Below Cal	#	6
95) Naphthalene	15.13	128	1712	0.280	ug/l #	76
96) 1,2,3-Trichlorobenzene	15.31	180	452	0.216	ug/l #	23

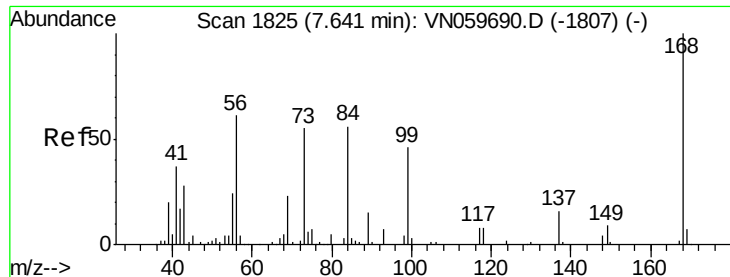
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jan 14 08:58:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

Instrument :

MSVOA_N

ClientSampleId :

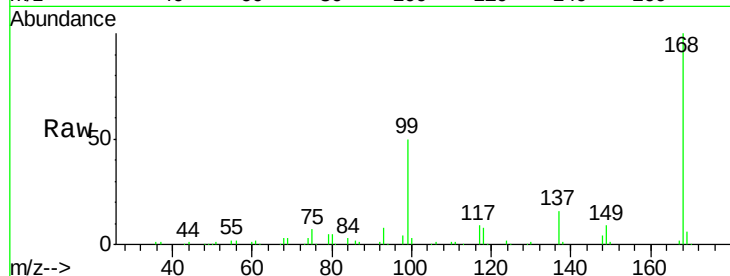
HR-05-011420

Tgt Ion:168 Resp: 194753

Ion Ratio Lower Upper

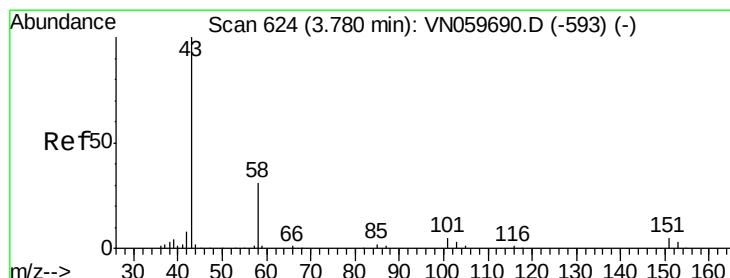
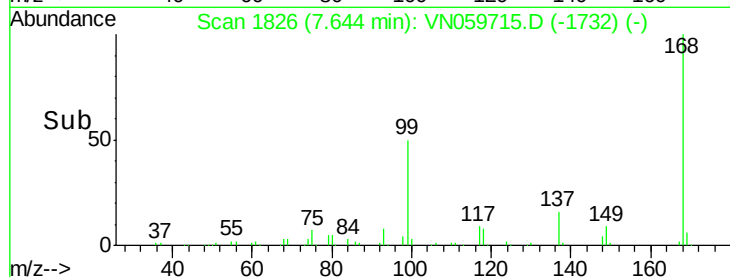
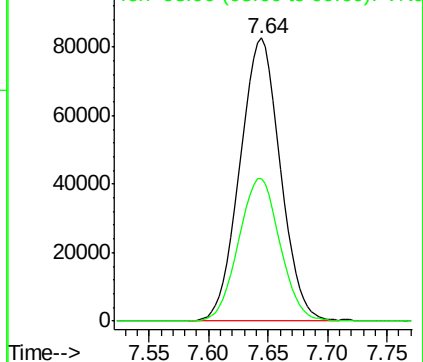
168 100

99 50.5 48.2 72.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 3.766 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN059715.D

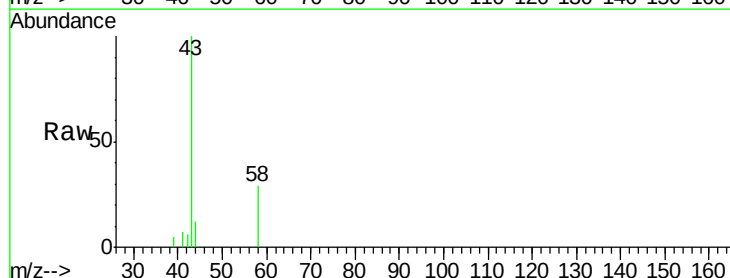
Acq: 15 Jan 2020 12:36

Tgt Ion: 43 Resp: 10051

Ion Ratio Lower Upper

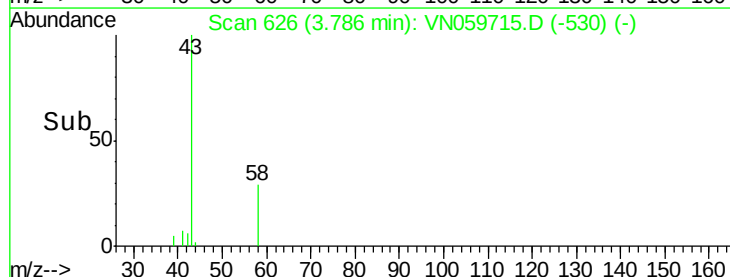
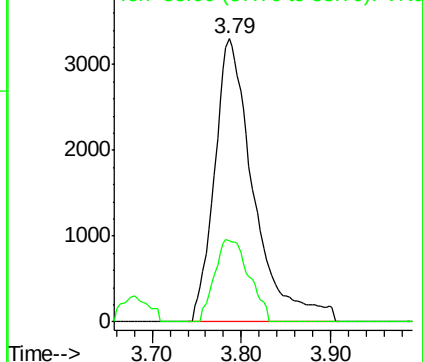
43 100

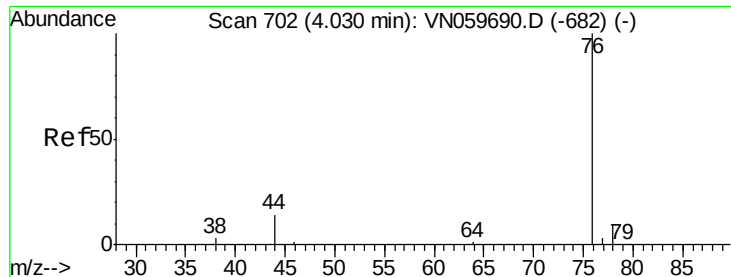
58 28.8 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.223 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

Instrument :

MSVOA_N

ClientSampleId :

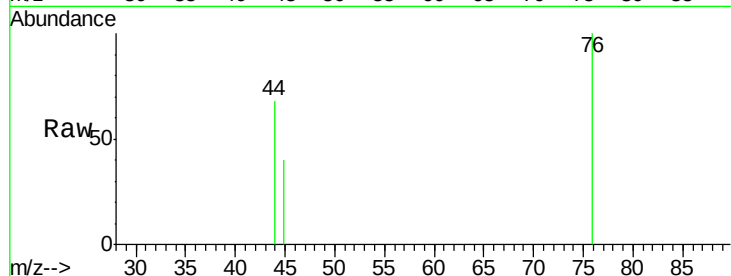
HR-05-011420

Tgt Ion: 76 Resp: 1130

Ion Ratio Lower Upper

76 100

78 0.0 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

4.03

500

400

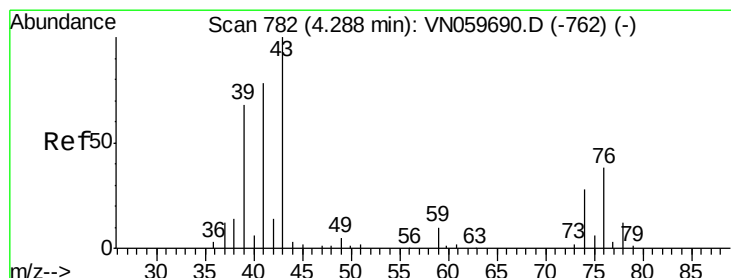
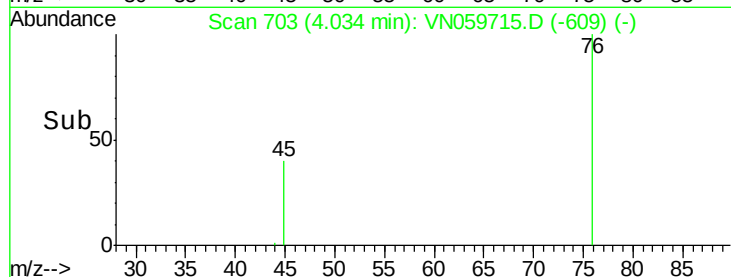
300

200

100

0

Time-->



#18

Methyl Acetate

Concen: 0.969 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN059715.D

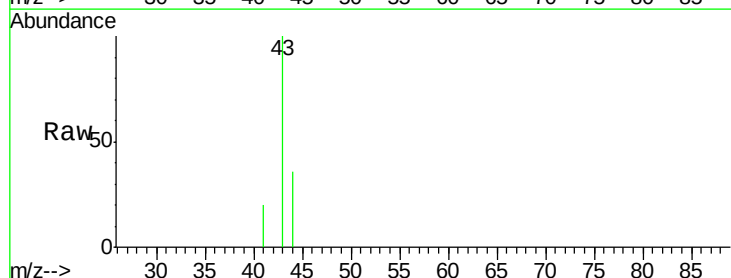
Acq: 15 Jan 2020 12:36

Tgt Ion: 43 Resp: 2447

Ion Ratio Lower Upper

43 100

74 7.0 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

4.30

800

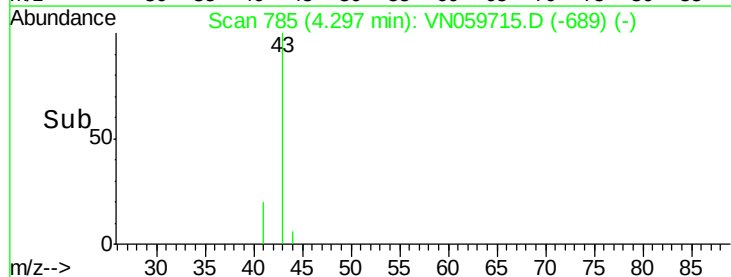
600

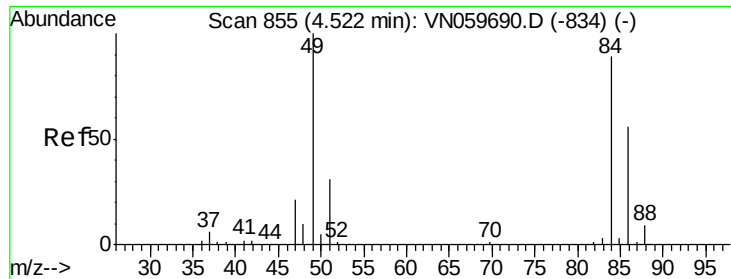
400

200

0

Time-->





#20

Methylene Chloride

Concen: 0.839 ug/l

RT: 4.52 min Scan# 855

Delta R.T. 0.00 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

Instrument :

MSVOA_N

ClientSampleId :

HR-05-011420

Tgt Ion: 84 Resp: 4132

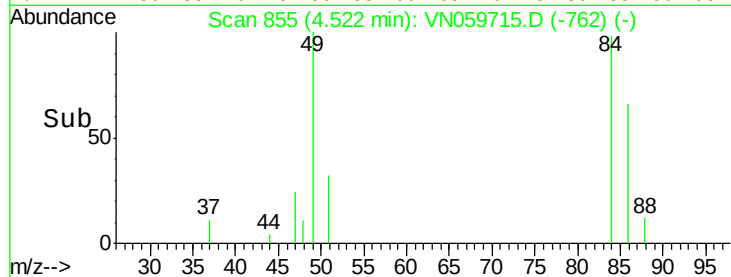
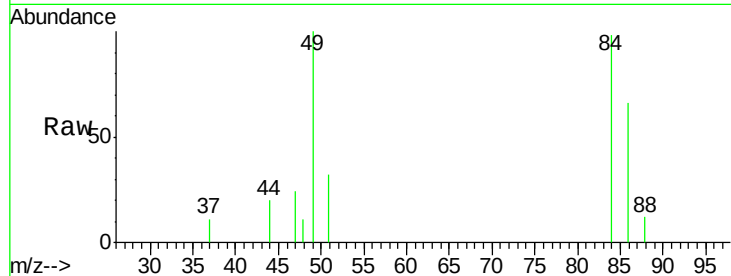
Ion Ratio Lower Upper

84 100

49 101.8 106.6 160.0#

51 33.1 31.9 47.9

86 66.9 50.8 76.2

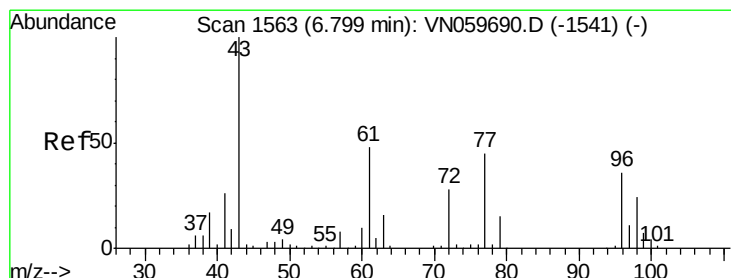
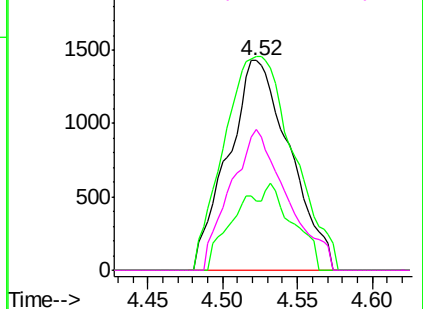


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 0.424 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. 0.03 min

Lab File: VN059715.D

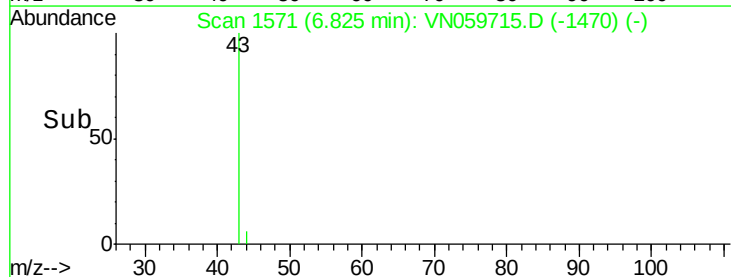
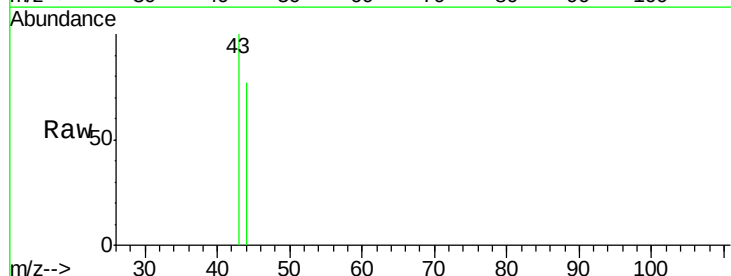
Acq: 15 Jan 2020 12:36

Tgt Ion: 43 Resp: 519

Ion Ratio Lower Upper

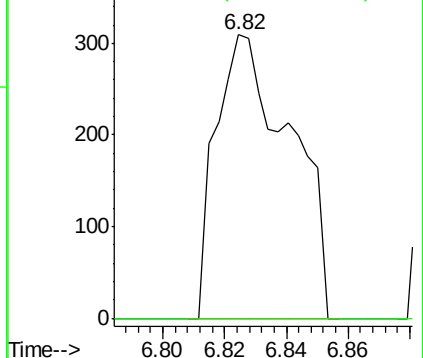
43 100

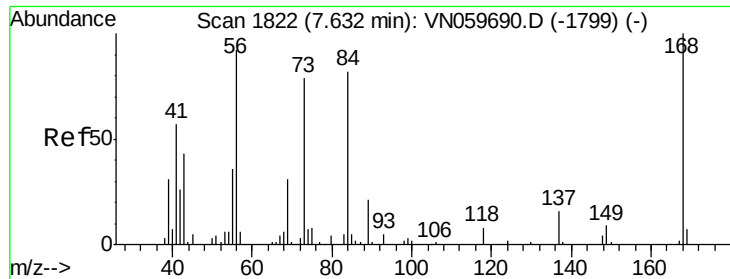
72 0.0 19.9 29.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

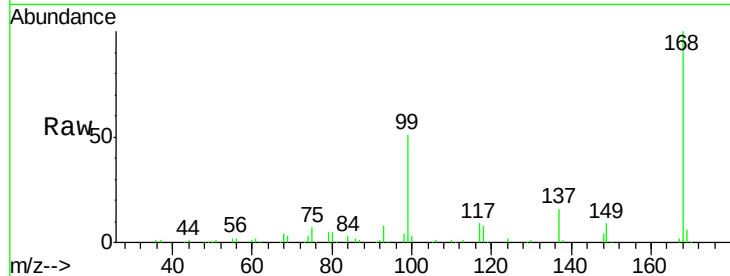




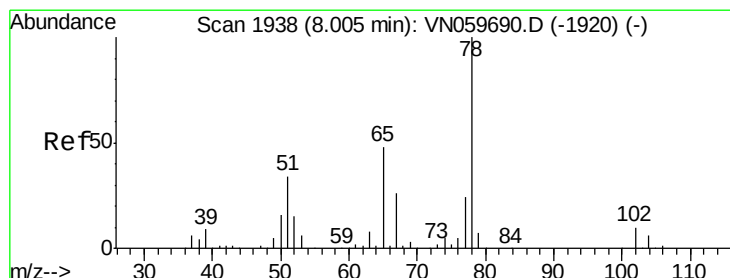
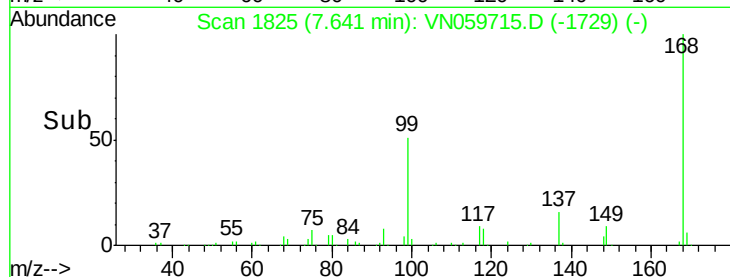
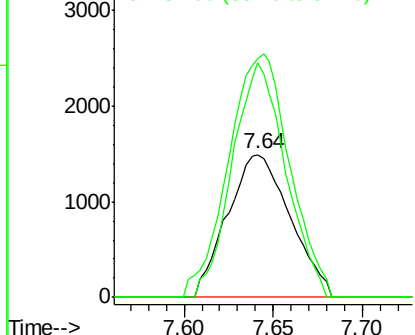
#31
Cyclohexane
Concen: 1.146 ug/l
RT: 7.64 min Scan# 1825
Delta R.T. 0.01 min
Lab File: VN059715.D
Acq: 15 Jan 2020 12:36

Instrument :
MSVOA_N
ClientSampleId :
HR-05-011420

Tgt Ion: 56 Resp: 3666
Ion Ratio Lower Upper
56 100
69 166.4 26.5 39.7#
84 164.1 65.3 97.9#

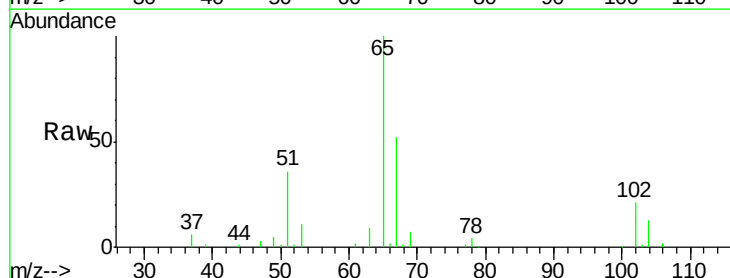


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

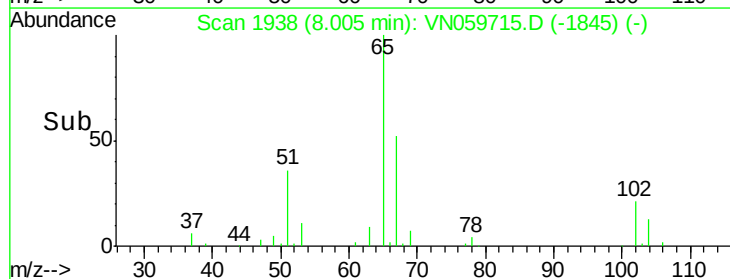
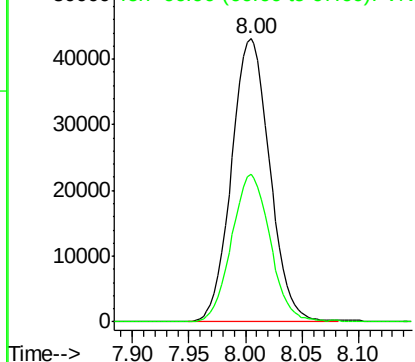


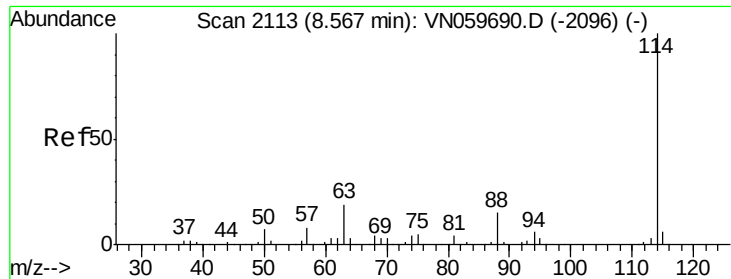
#33
1,2-Dichloroethane-d4
Concen: 46.992 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059715.D
Acq: 15 Jan 2020 12:36

Tgt Ion: 65 Resp: 101634
Ion Ratio Lower Upper
65 100
67 52.4 0.0 103.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

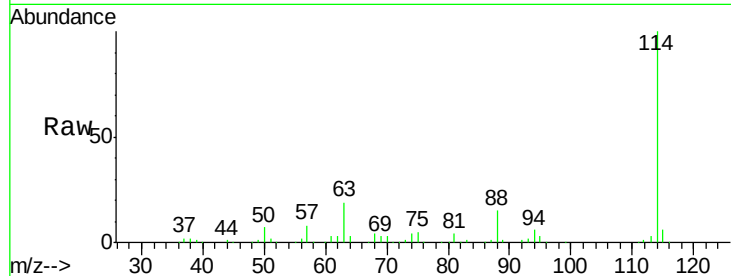




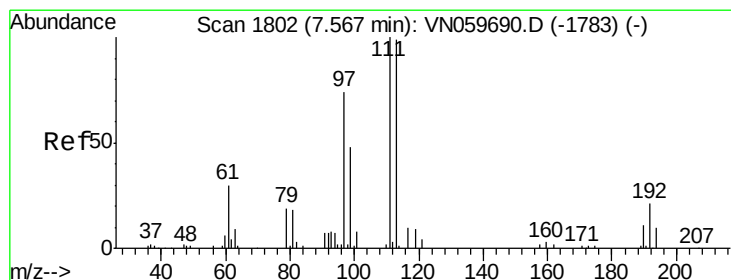
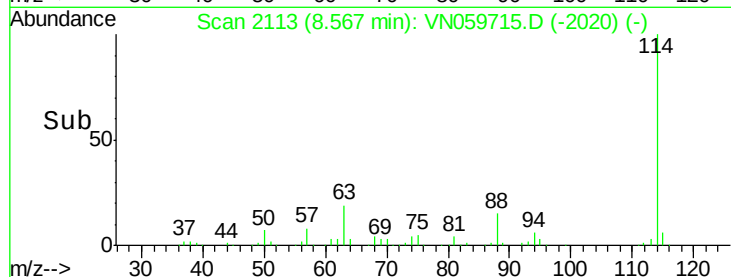
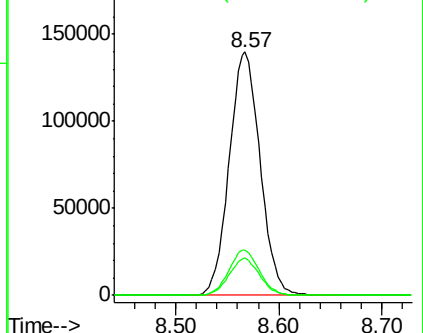
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059715.D
 Acq: 15 Jan 2020 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 HR-05-011420

Tgt Ion:114 Resp: 292062
 Ion Ratio Lower Upper
 114 100
 63 18.6 0.0 43.6
 88 15.2 0.0 31.4

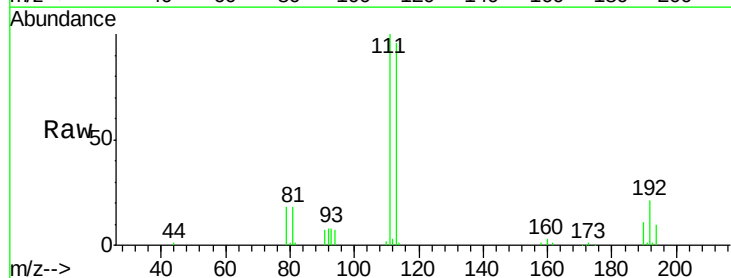


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

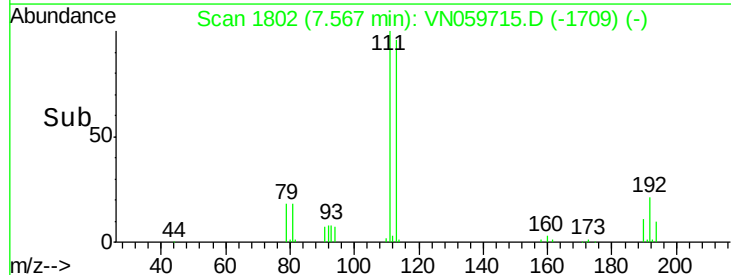
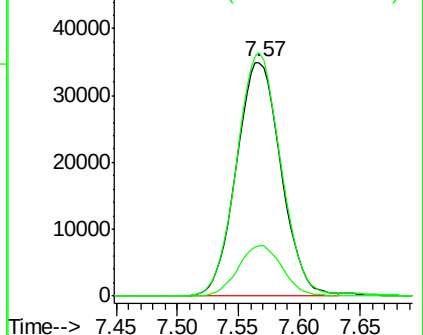


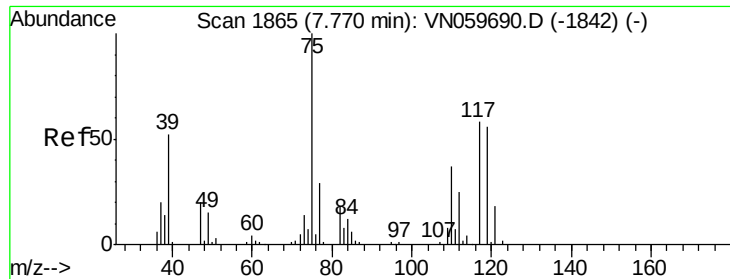
#35
 Dibromofluoromethane
 Concen: 50.984 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN059715.D
 Acq: 15 Jan 2020 12:36

Tgt Ion:113 Resp: 88799
 Ion Ratio Lower Upper
 113 100
 111 102.6 83.5 125.3
 192 21.3 15.4 23.2



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

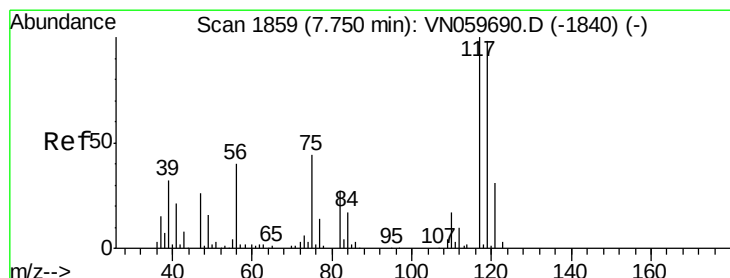
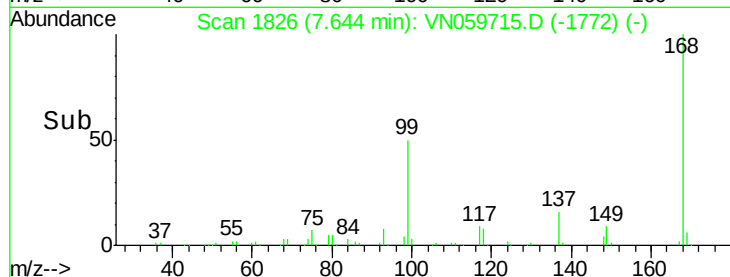
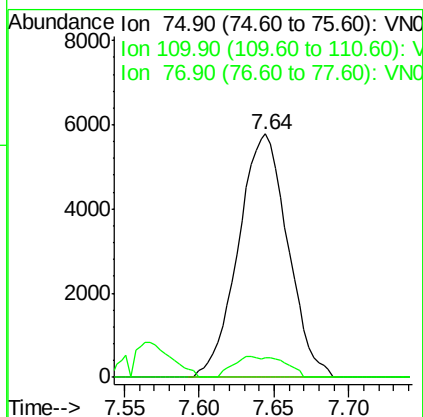
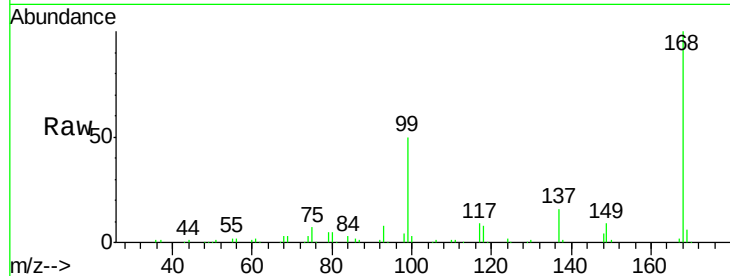




#36
 1,1-Dichloropropene
 Concen: 5.227 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059715.D
 Acq: 15 Jan 2020 12:36

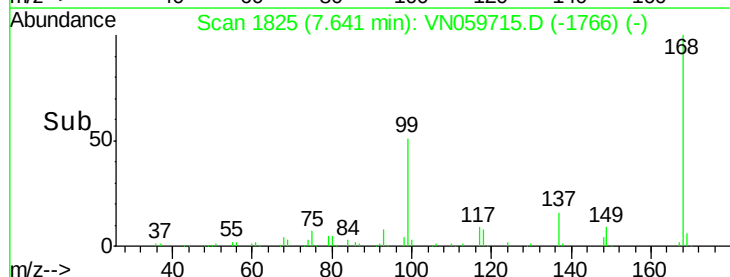
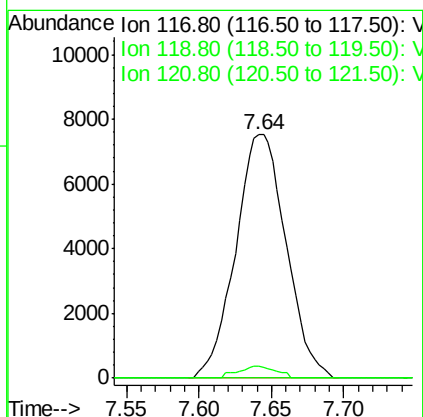
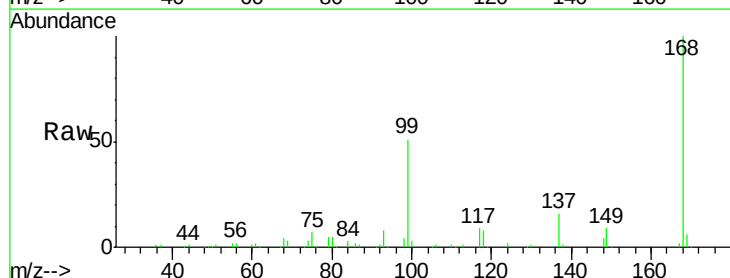
Instrument :
 MSVOA_N
 ClientSampleId :
 HR-05-011420

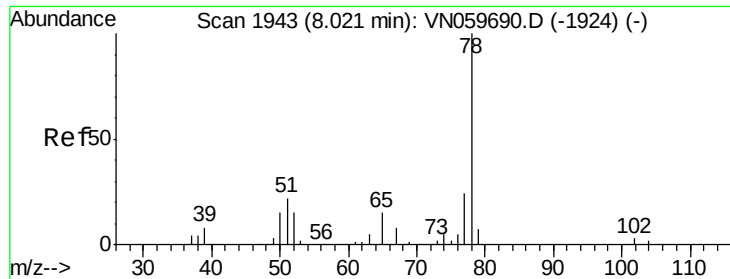
Tgt Ion: 75 Resp: 13294
 Ion Ratio Lower Upper
 75 100
 110 4.8 16.6 49.7#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.568 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059715.D
 Acq: 15 Jan 2020 12:36

Tgt Ion: 117 Resp: 18171
 Ion Ratio Lower Upper
 117 100
 119 4.8 76.5 114.7#
 121 0.0 25.1 37.7#





#40

Benzene

Concen: 0.763 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.01 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

Instrument :

MSVOA_N

ClientSampleId :

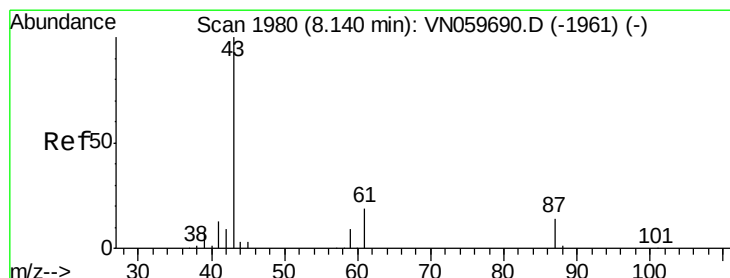
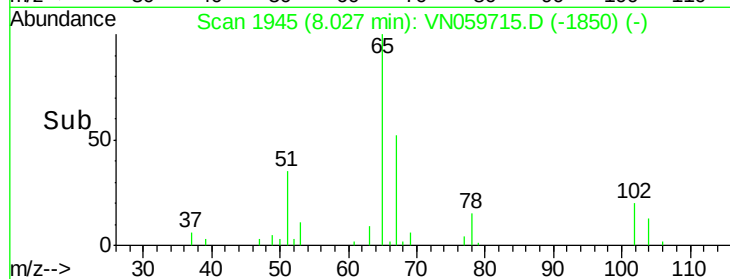
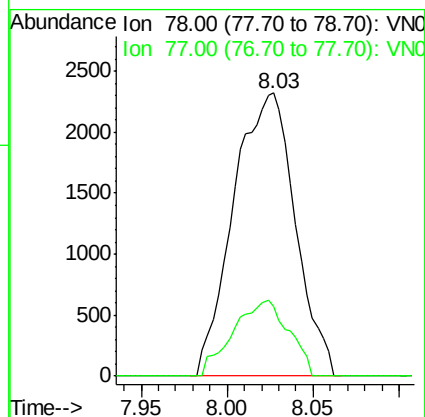
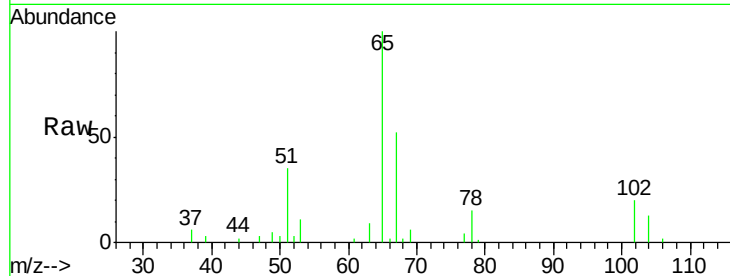
HR-05-011420

Tgt Ion: 78 Resp: 5788

Ion Ratio Lower Upper

78 100

77 24.6 18.9 28.3



#43

Isopropyl Acetate

Concen: 9.927 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

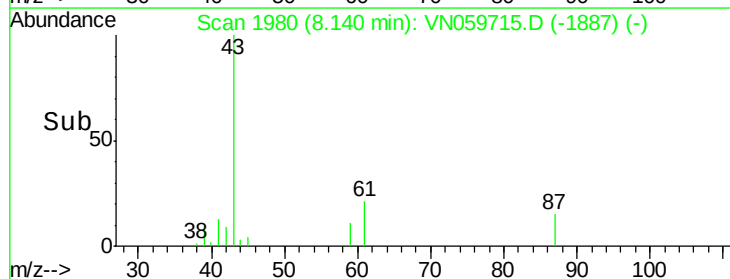
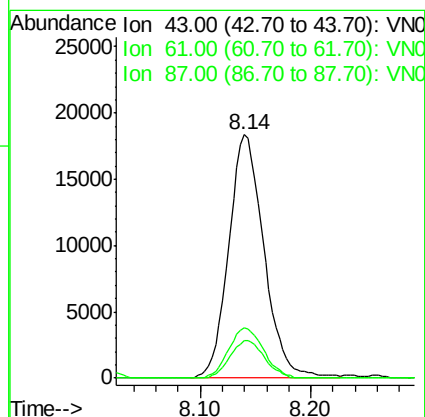
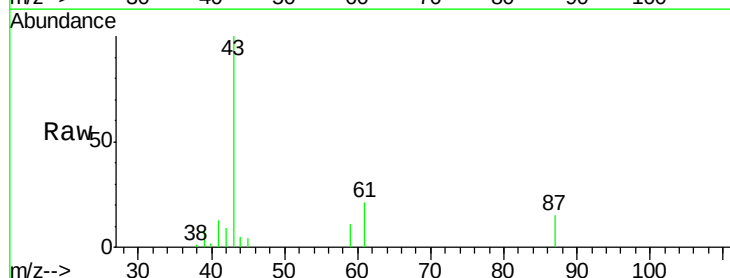
Tgt Ion: 43 Resp: 40733

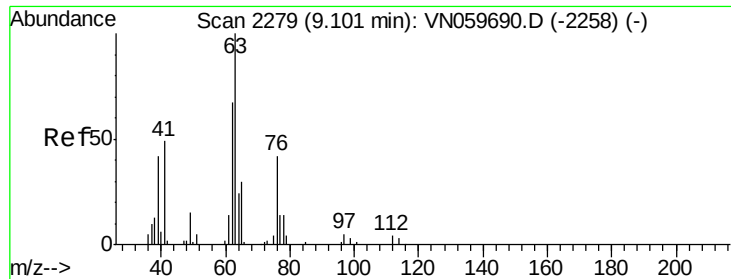
Ion Ratio Lower Upper

43 100

61 20.4 20.2 30.2

87 15.0 9.5 14.3#

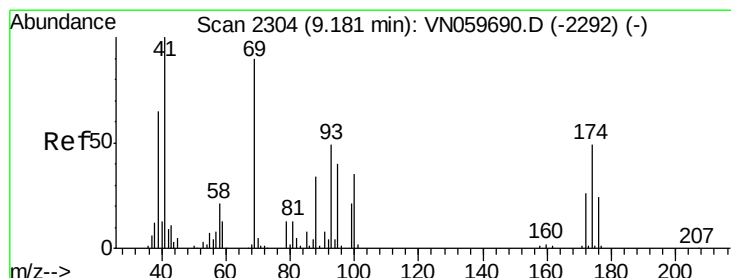
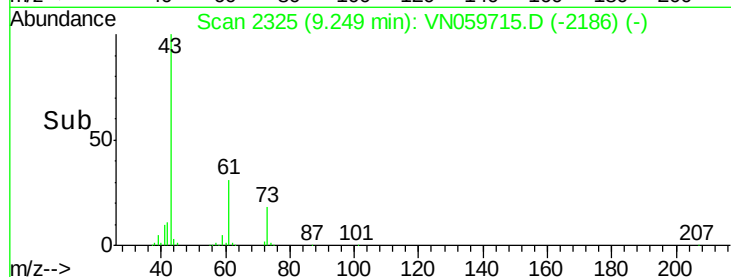
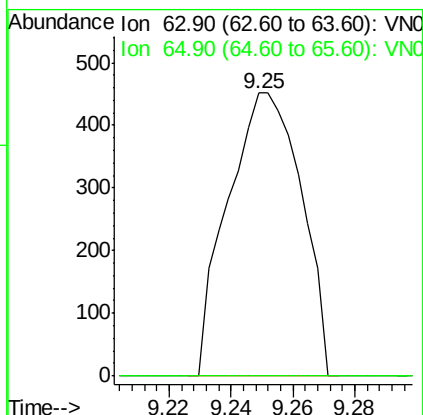
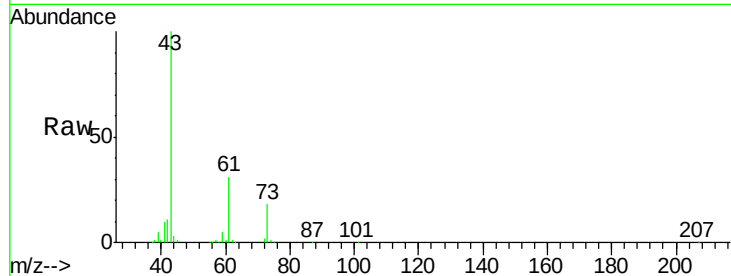




#45
 1,2-Dichloropropane
 Concen: 0.397 ug/l
 RT: 9.25 min Scan# 2325
 Delta R.T. 0.15 min
 Lab File: VN059715.D
 Acq: 15 Jan 2020 12:36

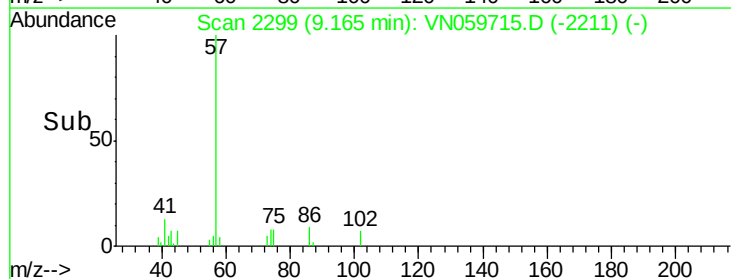
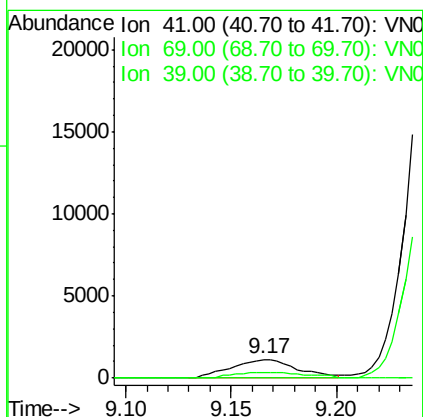
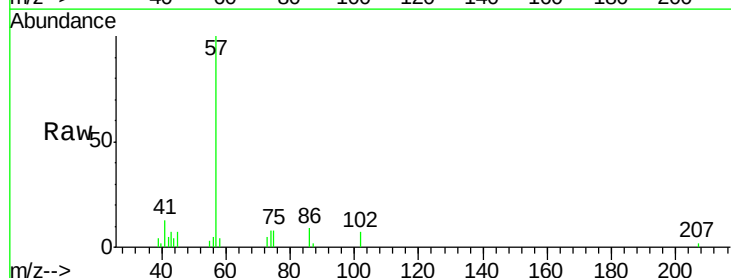
Instrument :
 MSVOA_N
 ClientSampleId :
 HR-05-011420

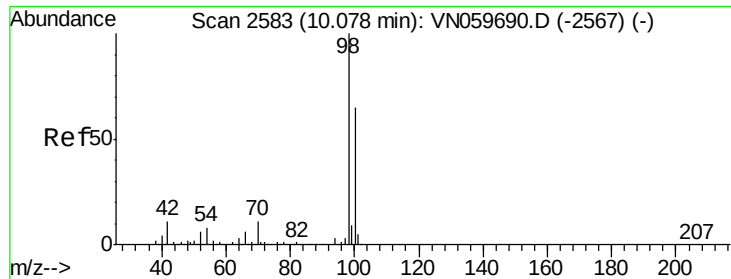
Tgt Ion: 63 Resp: 745
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.9 37.3#



#48
 Methyl methacrylate
 Concen: 1.327 ug/l
 RT: 9.17 min Scan# 2299
 Delta R.T. -0.02 min
 Lab File: VN059715.D
 Acq: 15 Jan 2020 12:36

Tgt Ion: 41 Resp: 2435
 Ion Ratio Lower Upper
 41 100
 69 0.0 64.4 96.6#
 39 0.0 51.3 76.9#

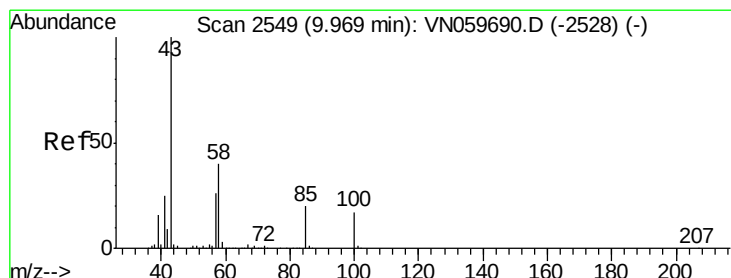
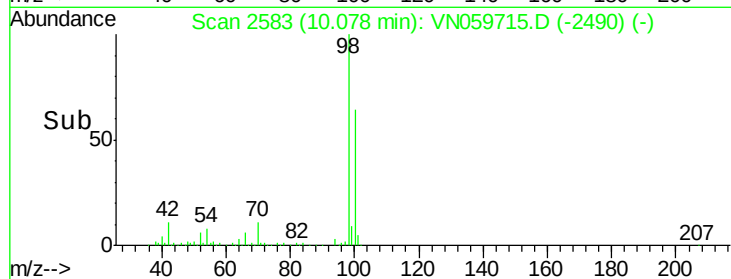
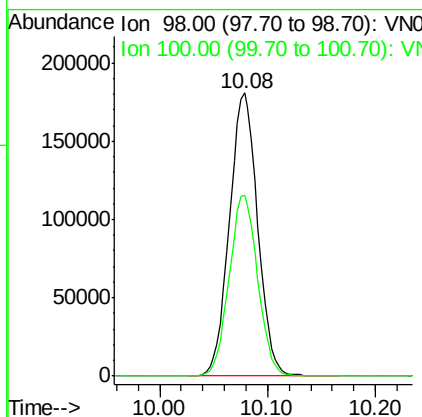
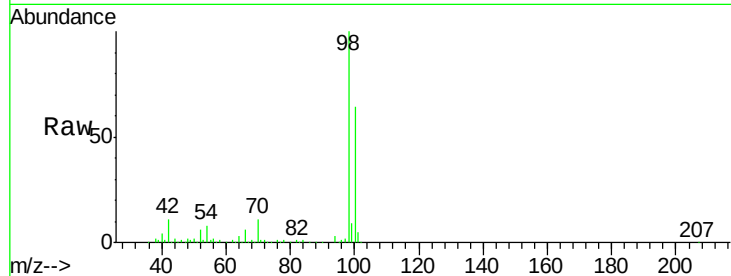




#50
Toluene-d8
Concen: 48.853 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. 0.00 min
Lab File: VN059715.D
Acq: 15 Jan 2020 12:36

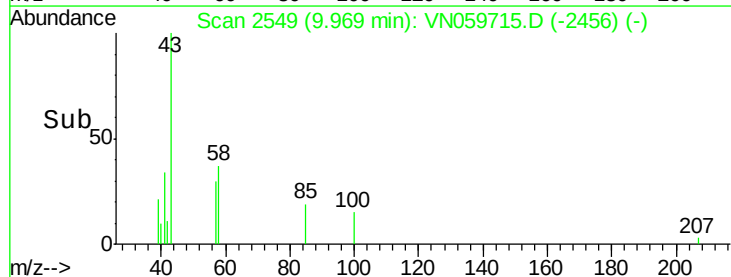
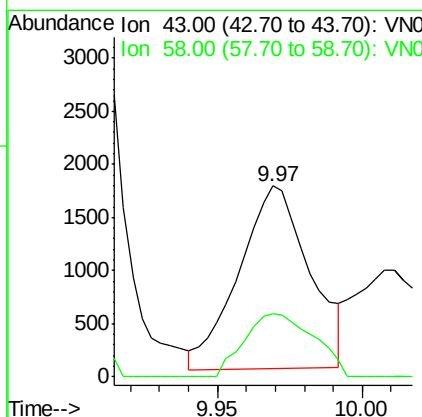
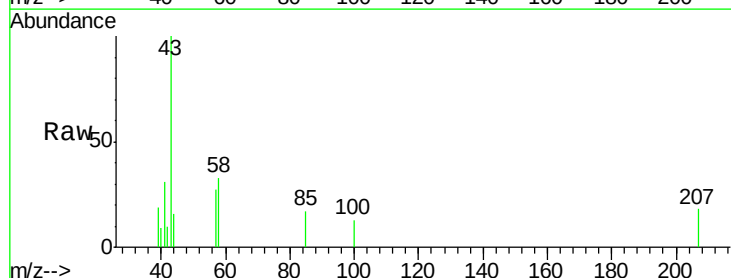
Instrument :
MSVOA_N
ClientSampleId :
HR-05-011420

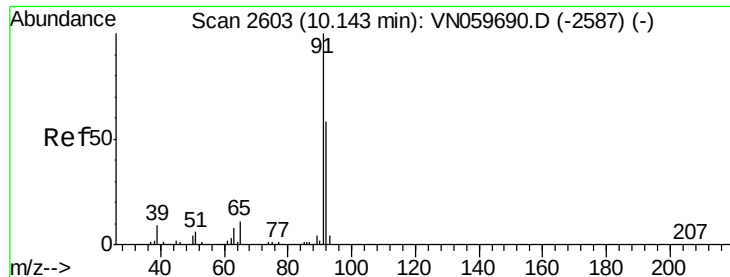
Tgt Ion: 98 Resp: 329669
Ion Ratio Lower Upper
98 100
100 64.5 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 1.232 ug/l
RT: 9.97 min Scan# 2549
Delta R.T. 0.00 min
Lab File: VN059715.D
Acq: 15 Jan 2020 12:36

Tgt Ion: 43 Resp: 2921
Ion Ratio Lower Upper
43 100
58 33.9 29.8 44.8





#52

Toluene

Concen: 0.256 ug/l

RT: 10.14 min Scan# 2602

Delta R.T. -0.00 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

Instrument :

MSVOA_N

ClientSampleId :

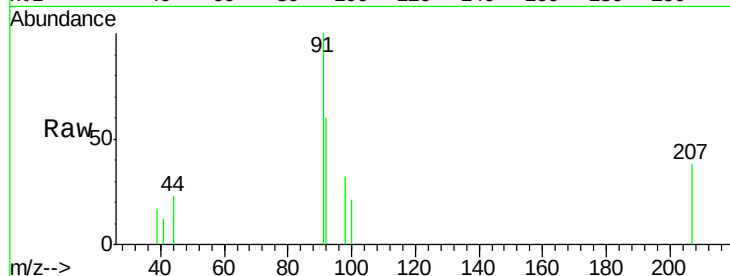
HR-05-011420

Tgt Ion: 92 Resp: 1227

Ion Ratio Lower Upper

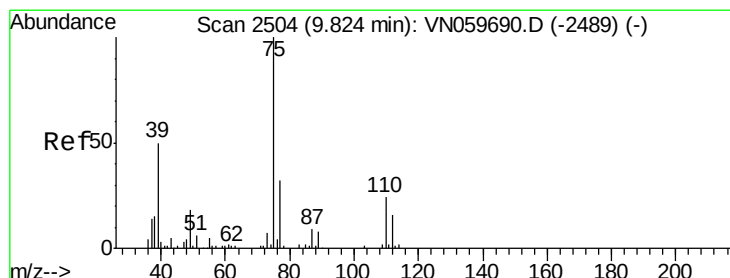
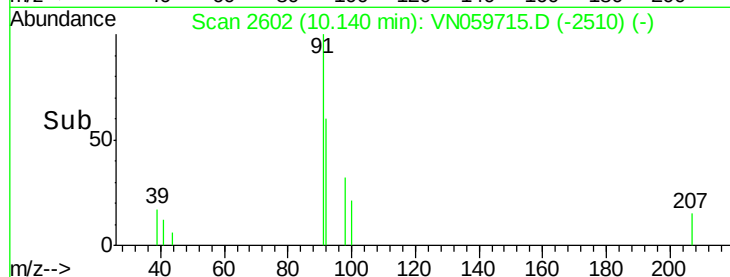
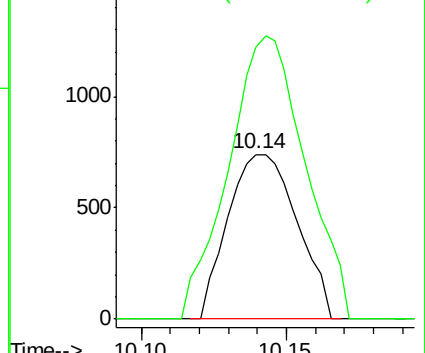
92 100

91 190.2 140.4 210.6



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 6.347 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

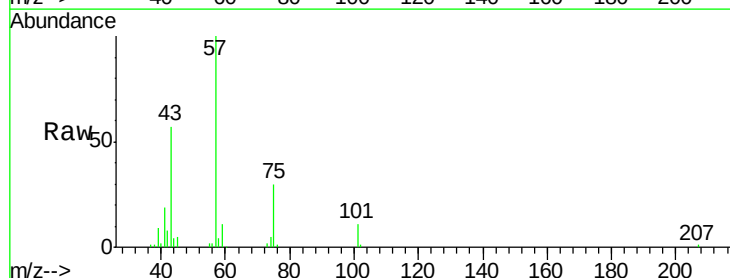
Tgt Ion: 75 Resp: 19896

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

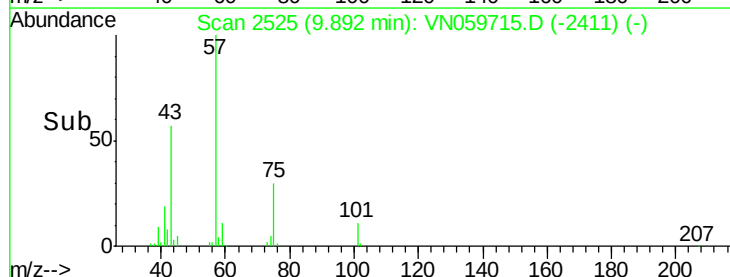
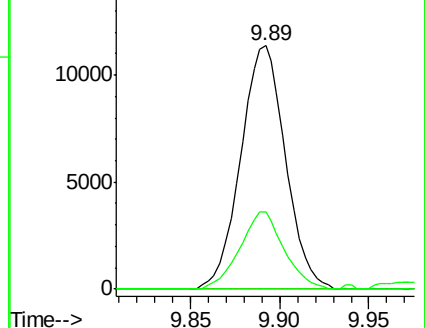
39 31.5 46.1 69.1#

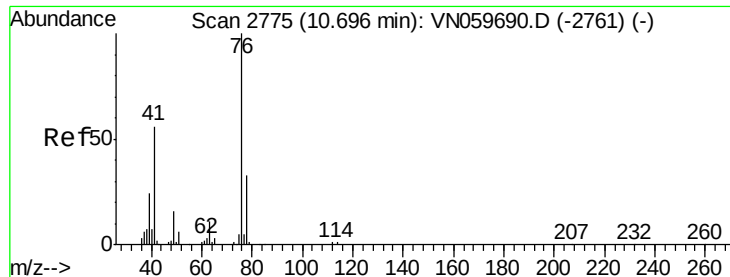


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

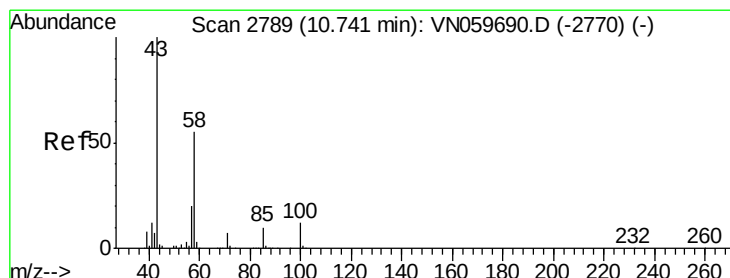
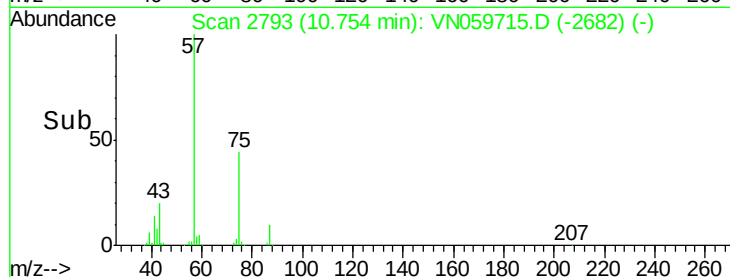
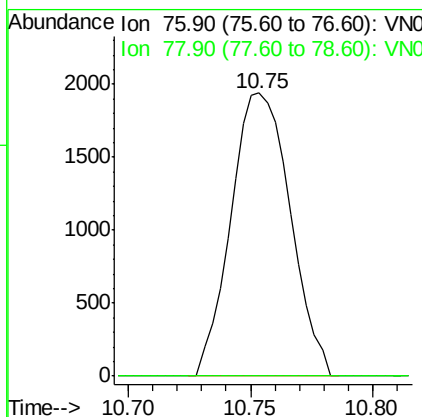
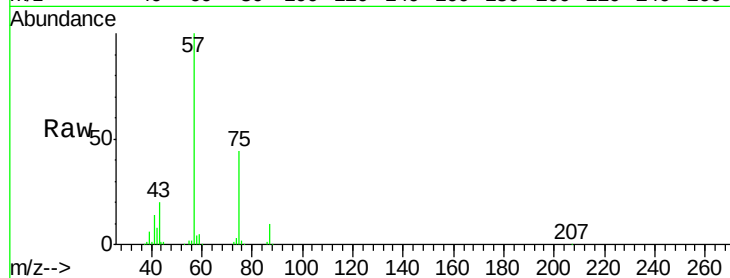




#57
 1,3-Dichloropropane
 Concen: 1.086 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.06 min
 Lab File: VN059715.D
 Acq: 15 Jan 2020 12:36

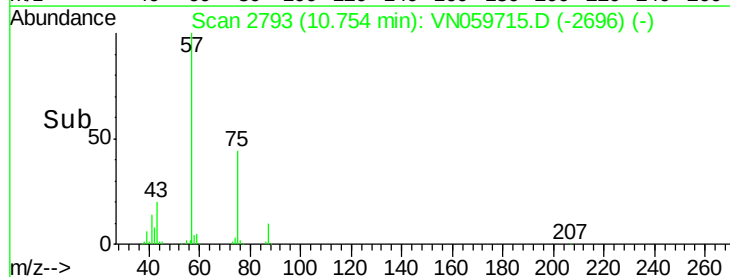
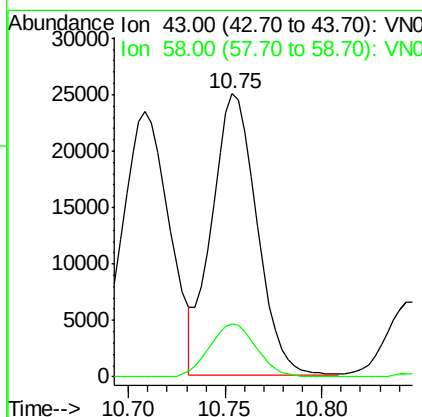
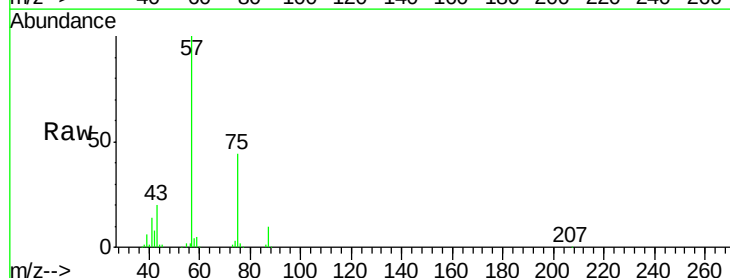
Instrument :
 MSVOA_N
 ClientSampleId :
 HR-05-011420

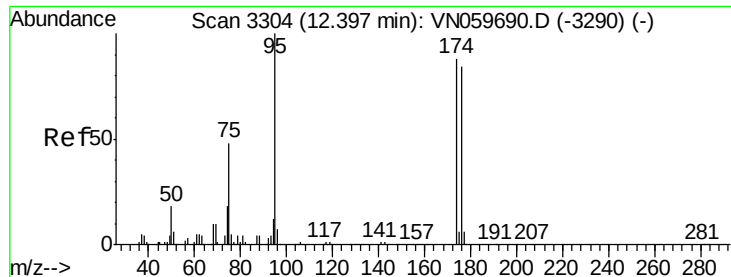
Tgt Ion: 76 Resp: 3271
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#



#59
 2-Hexanone
 Concen: 23.187 ug/l
 RT: 10.75 min Scan# 2793
 Delta R.T. 0.01 min
 Lab File: VN059715.D
 Acq: 15 Jan 2020 12:36

Tgt Ion: 43 Resp: 40516
 Ion Ratio Lower Upper
 43 100
 58 19.5 25.8 77.3#





#62

4-Bromofluorobenzene

Concen: 47.652 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.00 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

Instrument :

MSVOA_N

ClientSampleId :

HR-05-011420

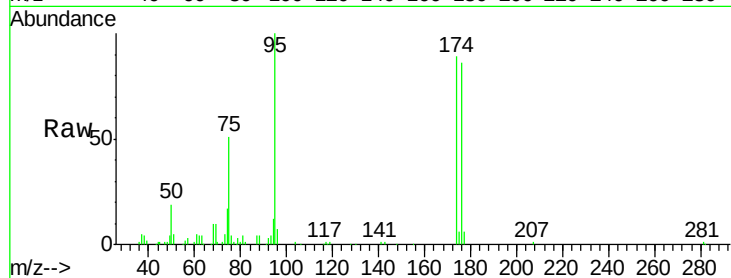
Tgt Ion: 95 Resp: 115924

Ion Ratio Lower Upper

95 100

174 88.3 0.0 151.4

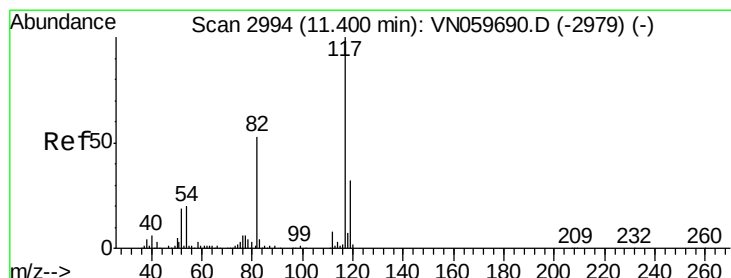
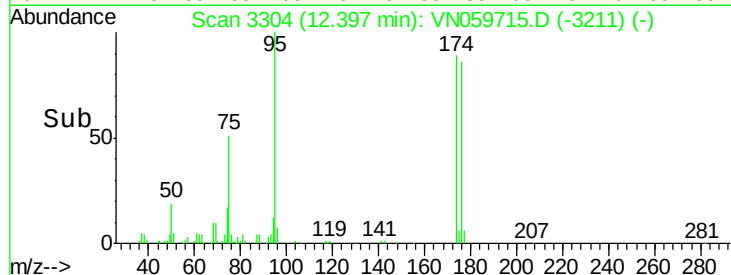
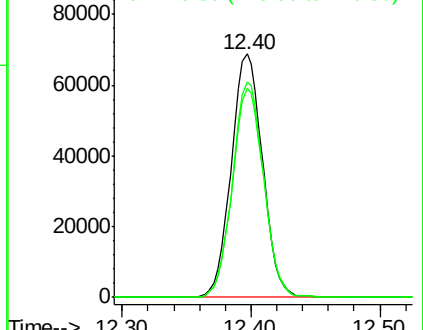
176 85.9 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN059715.D (-3211) (-)

Ion 173.80 (173.50 to 174.50): VN059715.D (-3211) (-)

Ion 175.80 (175.50 to 176.50): VN059715.D (-3211) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. 0.00 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

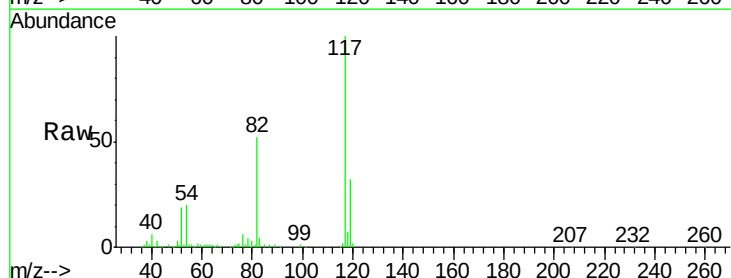
Tgt Ion: 117 Resp: 251555

Ion Ratio Lower Upper

117 100

82 52.2 45.9 68.9

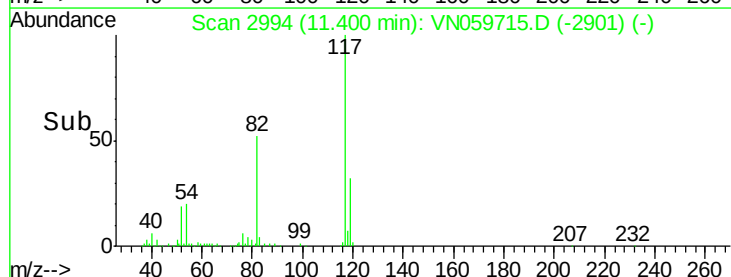
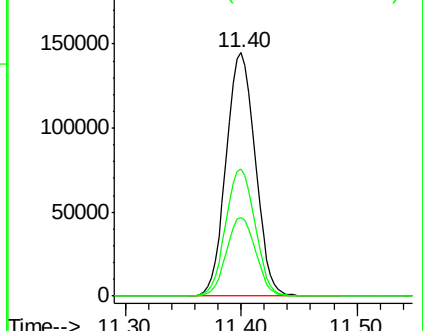
119 32.5 25.5 38.3

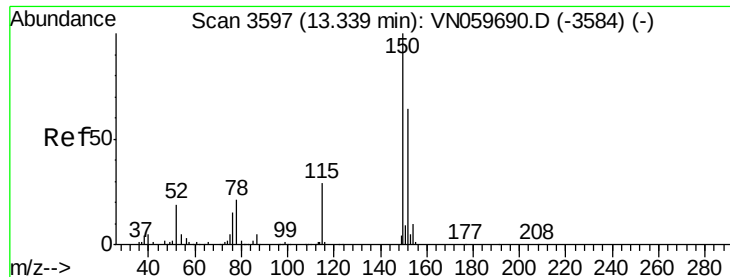


Abundance Ion 116.90 (116.60 to 117.60): VN059715.D (-2901) (-)

Ion 82.00 (81.70 to 82.70): VN059715.D (-2901) (-)

Ion 118.90 (118.60 to 119.60): VN059715.D (-2901) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

Instrument :

MSVOA_N

ClientSampled :

HR-05-011420

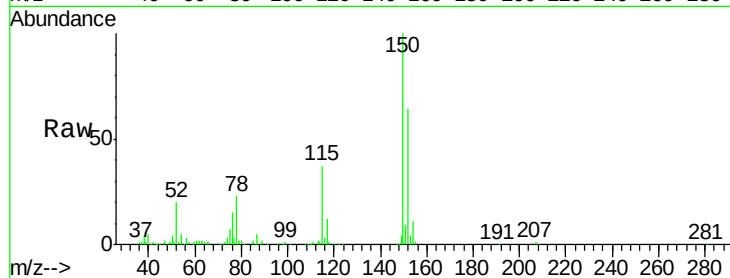
Tgt Ion:152 Resp: 112092

Ion Ratio Lower Upper

152 100

115 57.0 30.3 90.9

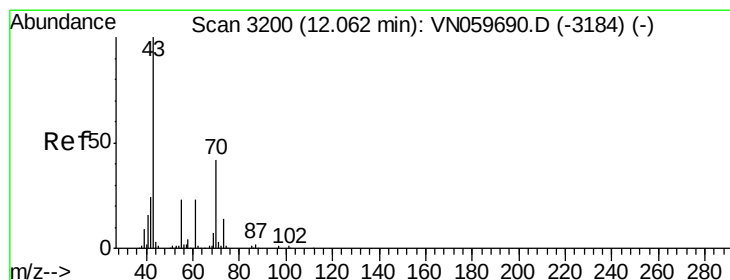
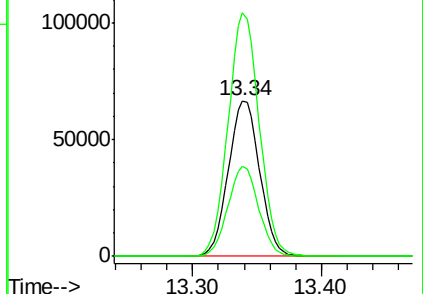
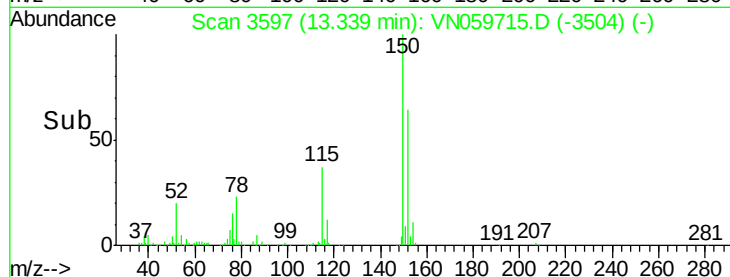
150 156.2 0.0 345.2



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: 0.567 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.03 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

Tgt Ion: 43 Resp: 1808

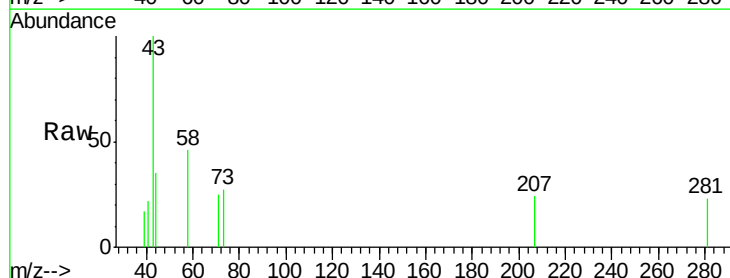
Ion Ratio Lower Upper

43 100

70 0.0 31.3 46.9#

55 0.0 19.8 29.6#

61 0.0 18.3 27.5#

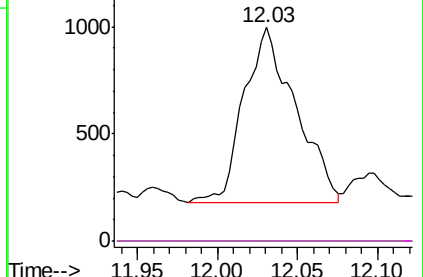
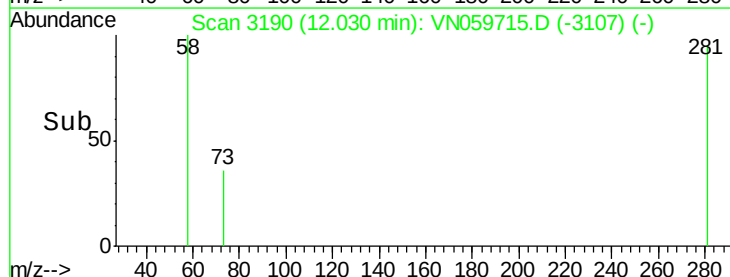


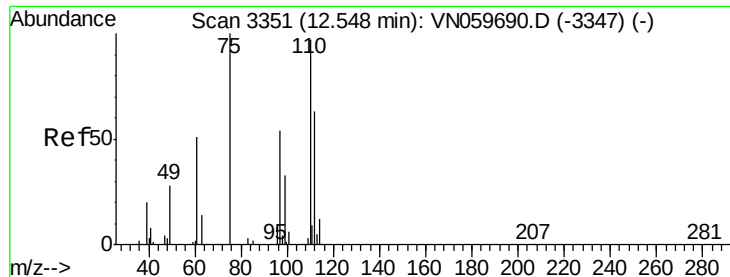
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 30.833 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

Instrument :

MSVOA_N

ClientSampleId :

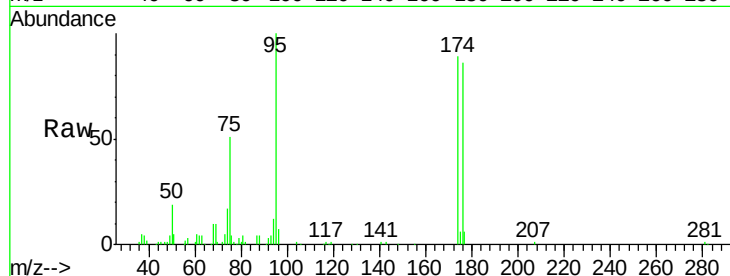
HR-05-011420

Tgt Ion: 75 Resp: 58164

Ion Ratio Lower Upper

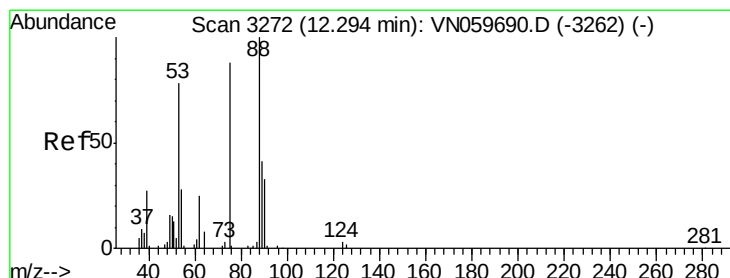
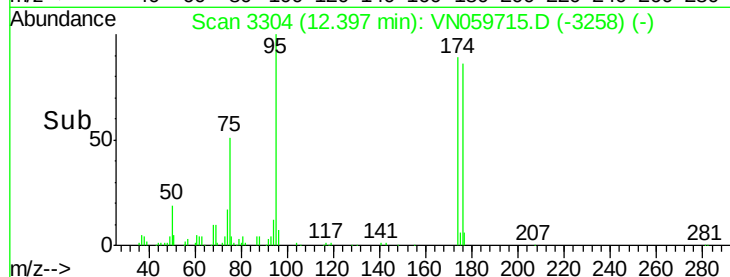
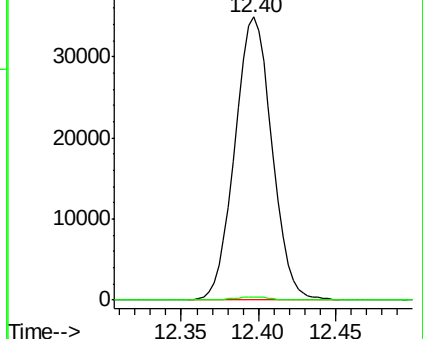
75 100

77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 66.215 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN059715.D

Acq: 15 Jan 2020 12:36

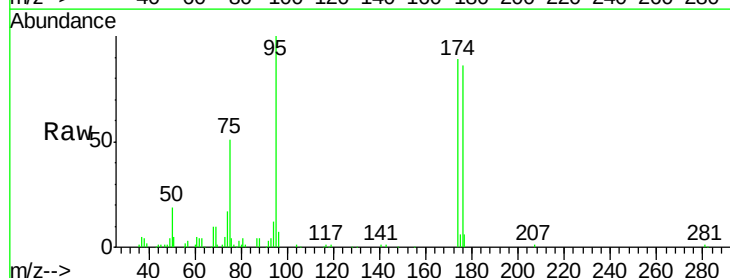
Tgt Ion: 75 Resp: 58164

Ion Ratio Lower Upper

75 100

53 0.0 78.1 117.1#

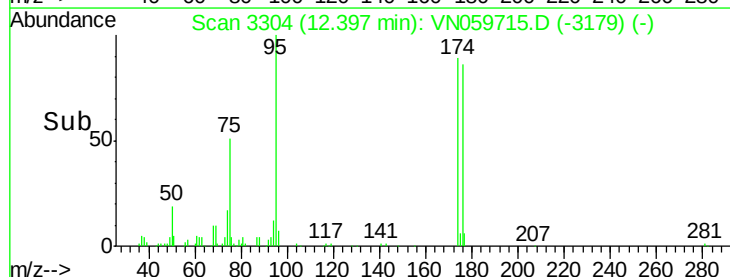
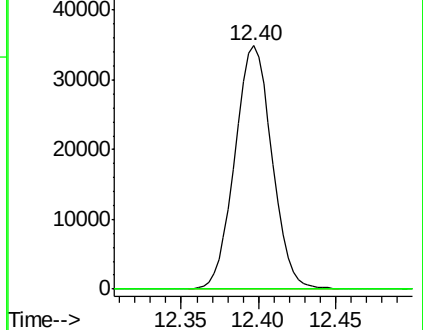
89 0.0 35.4 53.2#

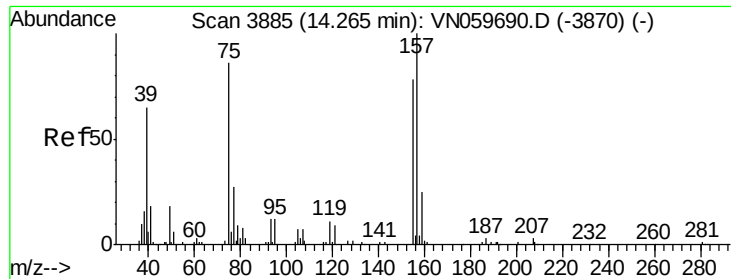


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

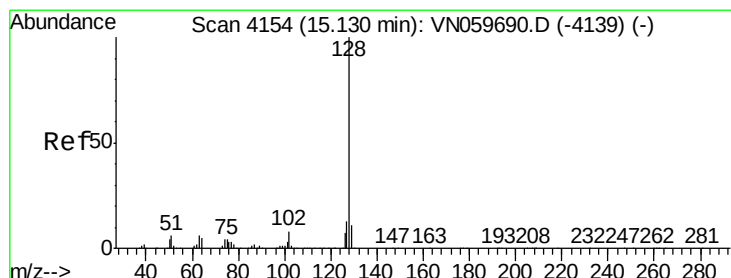
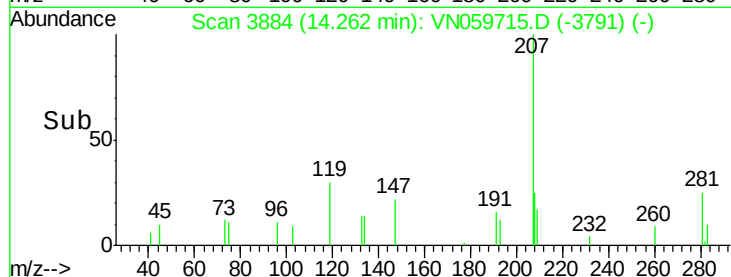
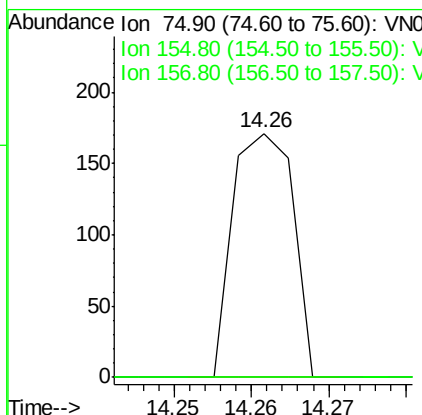
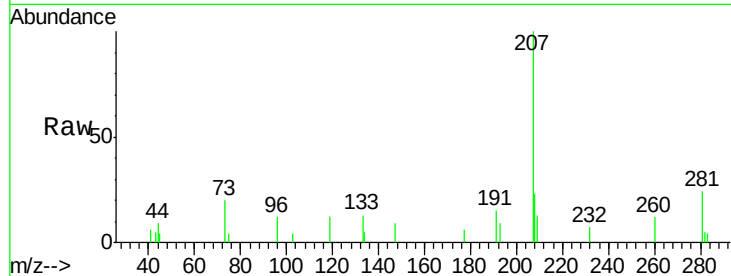




#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 14.26 min Scan# 3884
Delta R.T. -0.00 min
Lab File: VN059715.D
Acq: 15 Jan 2020 12:36

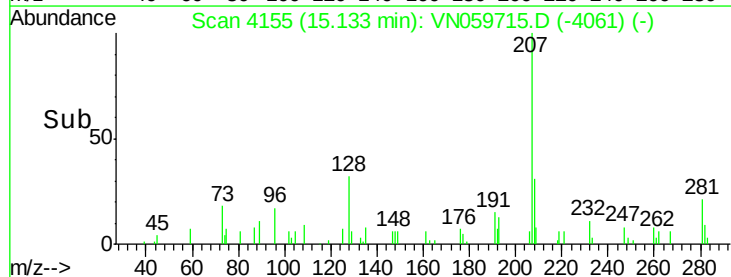
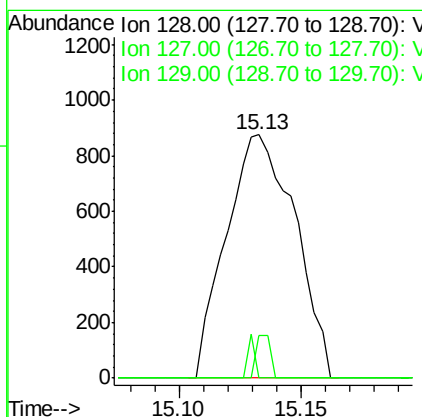
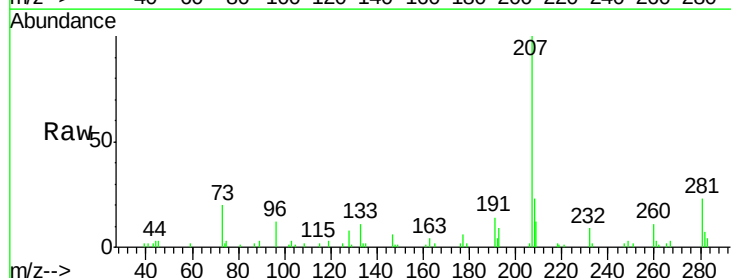
Instrument :
MSVOA_N
ClientSampleId :
HR-05-011420

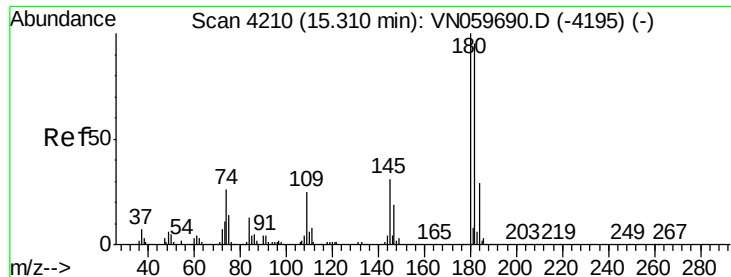
Tgt Ion: 75 Resp: 93
Ion Ratio Lower Upper
75 100
155 0.0 37.0 110.9#
157 0.0 48.4 145.2#



#95
Naphthalene
Concen: 0.280 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN059715.D
Acq: 15 Jan 2020 12:36

Tgt Ion: 128 Resp: 1712
Ion Ratio Lower Upper
128 100
127 1.8 10.4 15.6#
129 3.4 8.6 12.8#

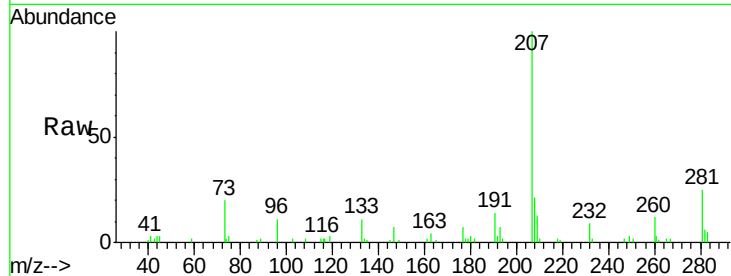




#96
 1,2,3-Trichlorobenzene
 Concen: 0.216 ug/l
 RT: 15.31 min Scan# 4209
 Delta R.T. -0.00 min
 Lab File: VN059715.D
 Acq: 15 Jan 2020 12:36

Instrument :
 MSVOA_N
 ClientSampleId :
 HR-05-011420

Tgt Ion	Ratio	Lower	Upper
180	100		
182	0.0	47.4	142.3#
145	42.3	16.3	48.9



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

