

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058041.D
 Acq On : 14 Sep 2019 00:31
 Operator : JC/SP
 Sample : K4694-31
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-1-(1.5)

Quant Time: Sep 14 03:41:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	295669	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	532064	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	481776	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	242700	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	337225	56.31	ug/l	0.00
Spiked Amount			Recovery	=	112.62%	
35) Dibromofluoromethane	7.58	113	234214	47.69	ug/l	0.00
Spiked Amount			Recovery	=	95.38%	
50) Toluene-d8	10.09	98	872091	45.74	ug/l	0.00
Spiked Amount			Recovery	=	91.48%	
62) 4-Bromofluorobenzene	12.40	95	297440	40.94	ug/l	0.00
Spiked Amount			Recovery	=	81.88%	

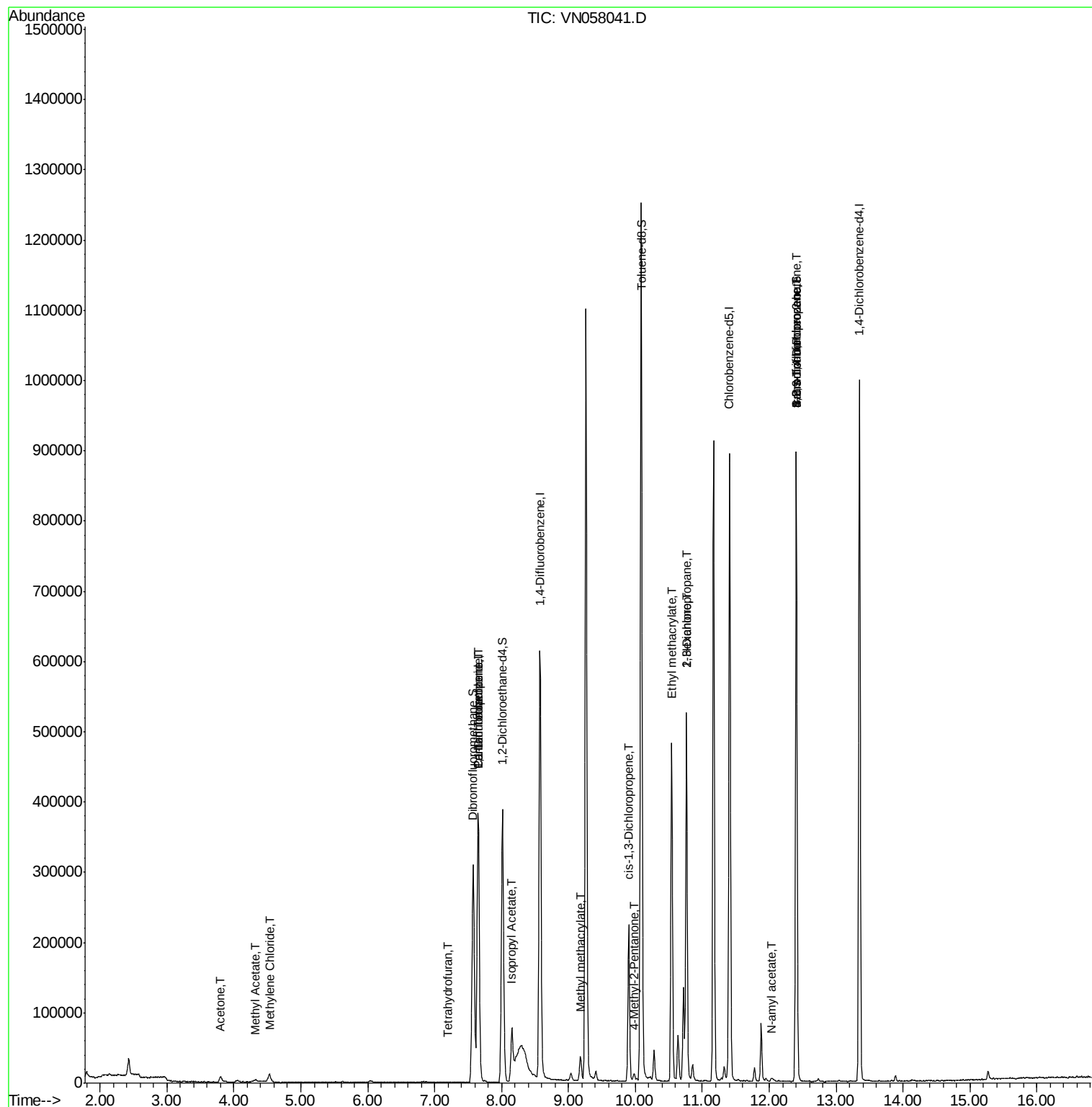
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	60	Below Cal	#	69
16) Acetone	3.80	43	14373	7.321	ug/l #	89
18) Methyl Acetate	4.32	43	7254	1.386	ug/l #	67
20) Methylene Chloride	4.53	84	7906	0.907	ug/l #	98
29) Tetrahydrofuran	7.21	42	533	0.304	ug/l #	34
31) Cyclohexane	7.65	56	7652	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	25975	4.210	ug/l #	48
38) Carbon Tetrachloride	7.65	117	30949	5.494	ug/l #	17
43) Isopropyl Acetate	8.15	43	98699	9.206	ug/l #	83
48) Methyl methacrylate	9.18	41	4108	0.755	ug/l #	13
51) 4-Methyl-2-Pentanone	9.98	43	7310	1.152	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	37451	4.938	ug/l #	67
56) Ethyl methacrylate	10.54	69	1972	0.264	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4817	0.564	ug/l #	43
59) 2-Hexanone	10.76	43	78223	16.449	ug/l #	54
71) Bromoform	12.40	173	666	0.244	ug/l #	30
74) N-amyl acetate	12.04	43	4285	0.523	ug/l #	48
76) 1,2,3-Trichloropropane	12.40	75	164981	30.050	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	164981	105.745	ug/l #	6
95) Naphthalene	15.14	128	894	Below Cal	#	69

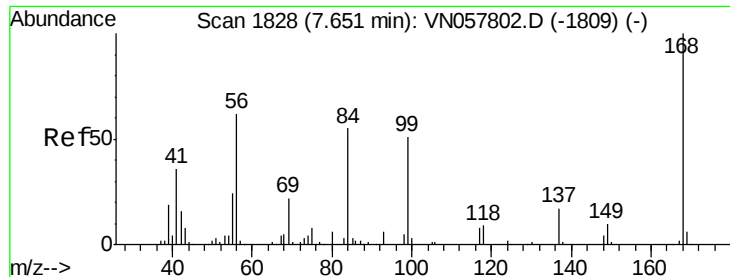
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058041.D

Acq: 14 Sep 2019 00:31

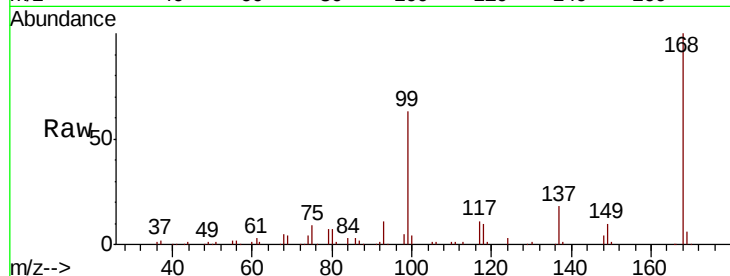
Instrument :
MSVOA_N
ClientSampleId :
T2-1-(1.5)

Tgt Ion:168 Resp: 295669

Ion Ratio Lower Upper

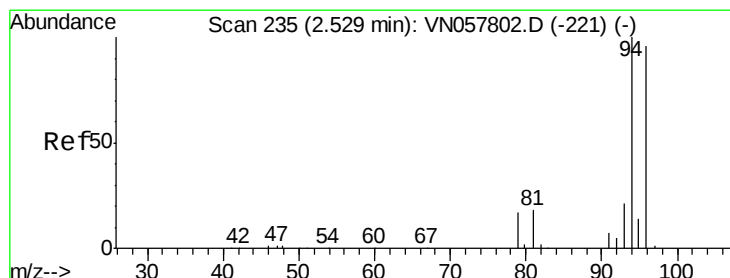
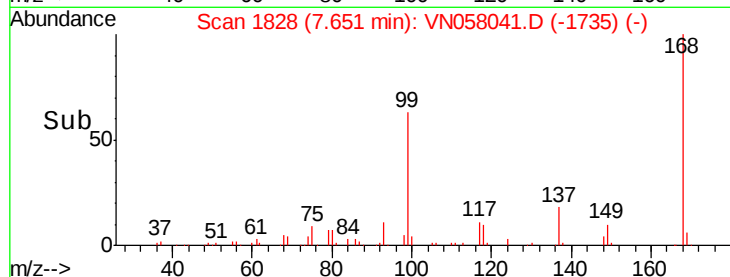
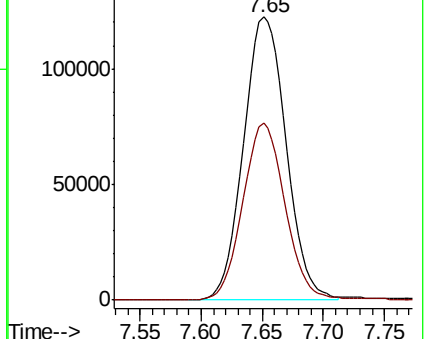
168 100

99 62.8 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 245

Delta R.T. 0.03 min

Lab File: VN058041.D

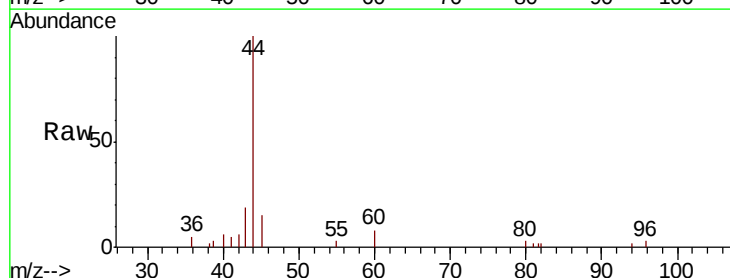
Acq: 14 Sep 2019 00:31

Tgt Ion: 94 Resp: 60

Ion Ratio Lower Upper

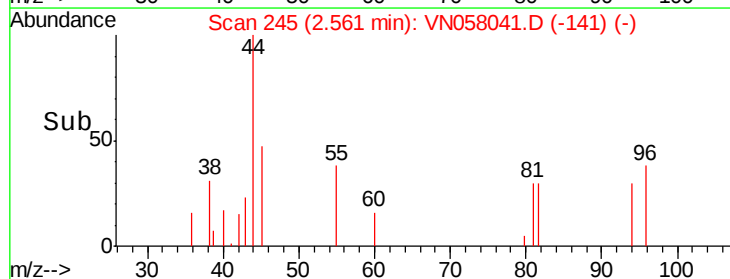
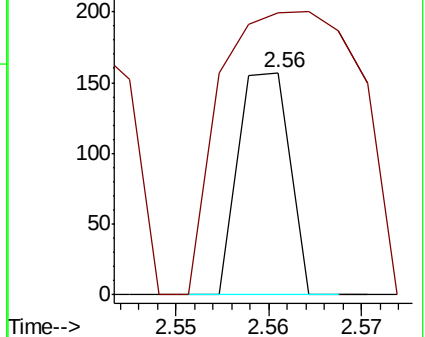
94 100

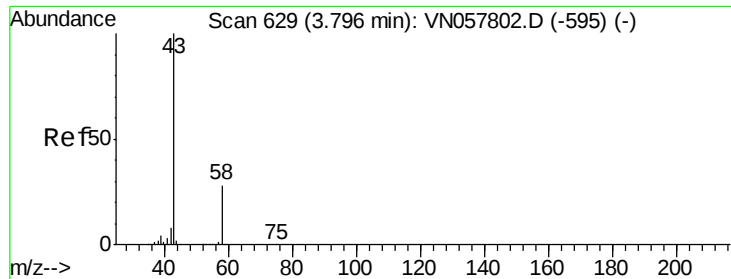
96 126.8 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#16

Acetone

Concen: 7.321 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058041.D

Acq: 14 Sep 2019 00:31

Instrument :

MSVOA_N

ClientSampled :

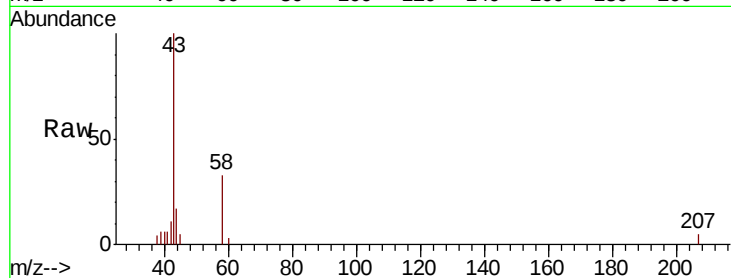
T2-1-(1.5)

Tgt Ion: 43 Resp: 14373

Ion Ratio Lower Upper

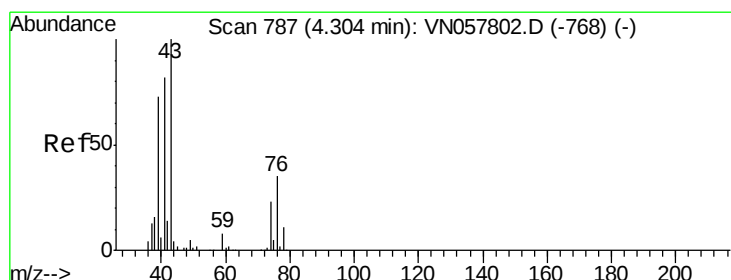
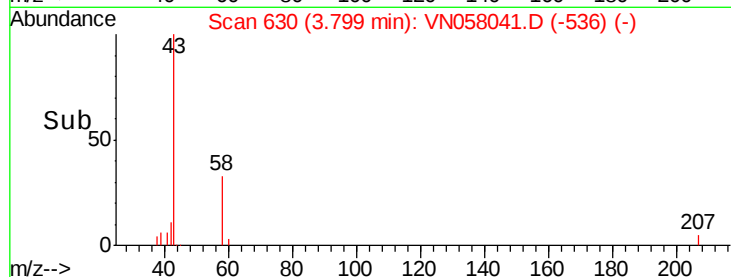
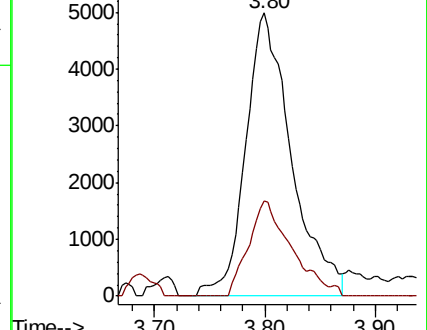
43 100

58 33.4 22.2 33.2#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-595) (-)

Ion 58.00 (57.70 to 58.70): VN057802.D (-595) (-)



#18

Methyl Acetate

Concen: 1.386 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.02 min

Lab File: VN058041.D

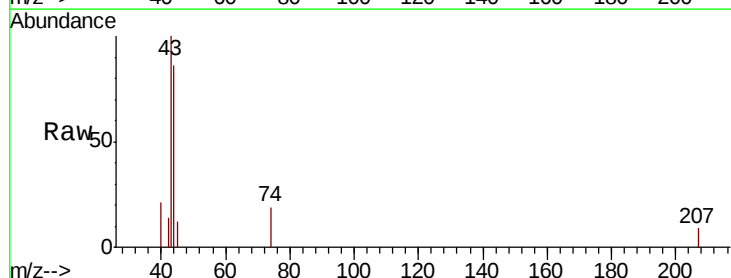
Acq: 14 Sep 2019 00:31

Tgt Ion: 43 Resp: 7254

Ion Ratio Lower Upper

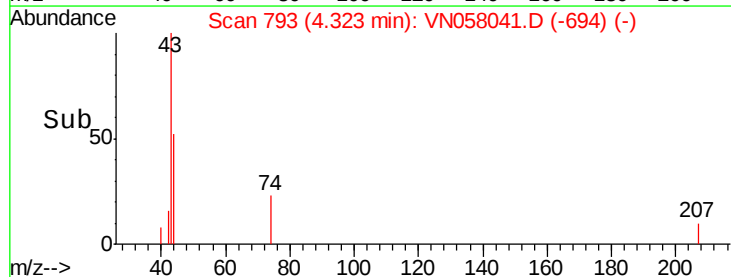
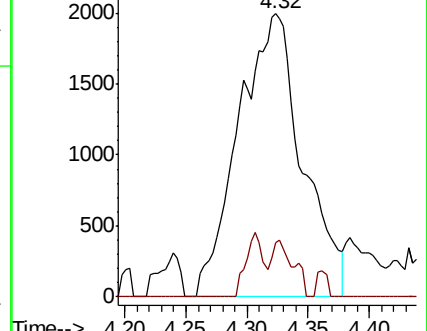
43 100

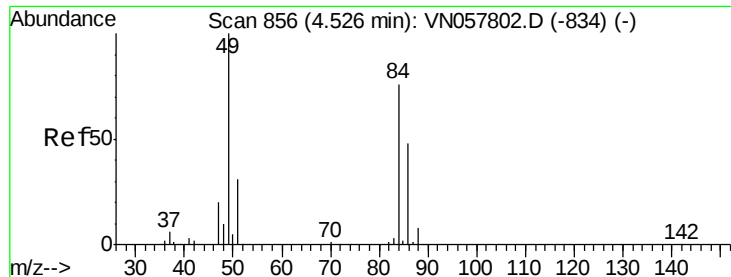
74 6.7 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-768) (-)

Ion 74.00 (73.70 to 74.70): VN057802.D (-768) (-)

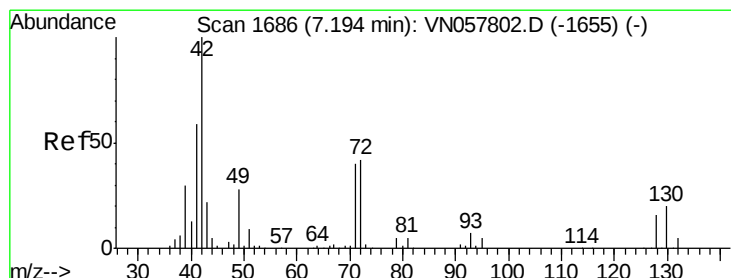
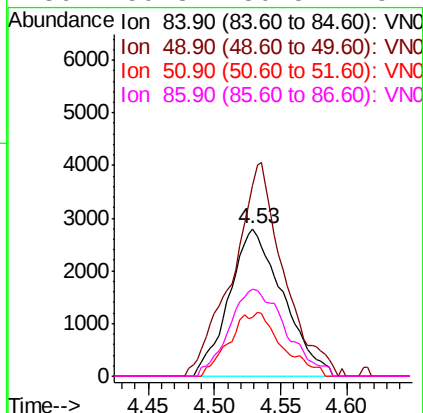
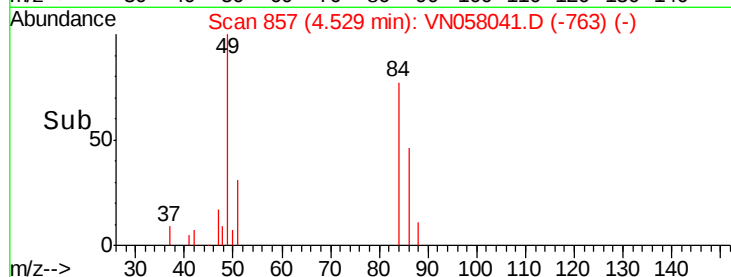
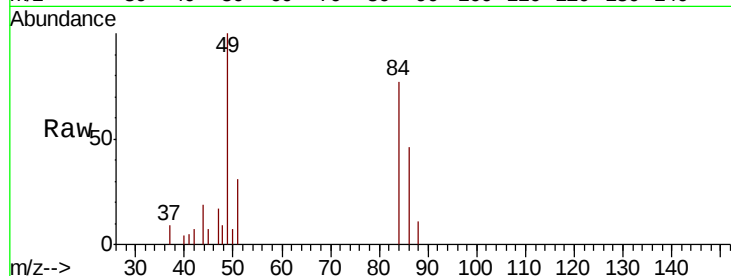




#20
Methylene Chloride
Concen: 0.907 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN058041.D
Acq: 14 Sep 2019 00:31

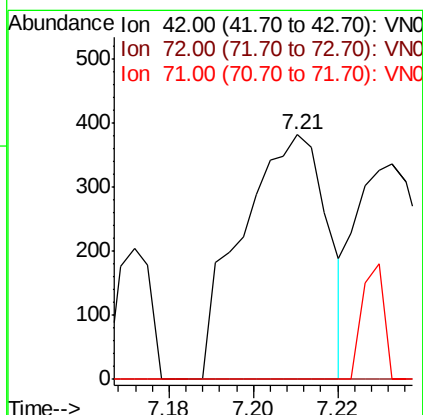
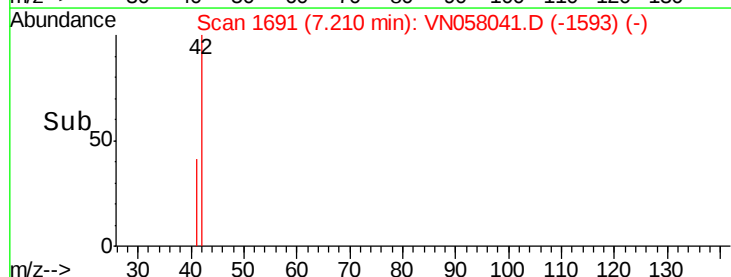
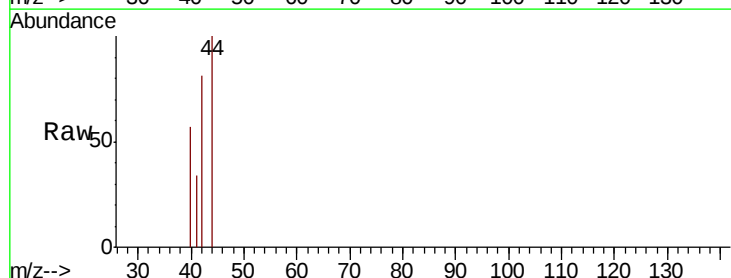
Instrument :
MSVOA_N
ClientSampled :
T2-1-(1.5)

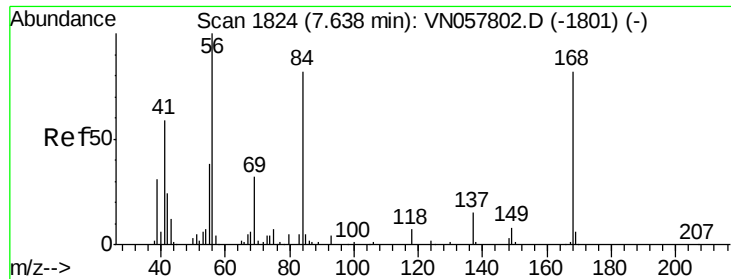
Tgt Ion:	84	Resp:	7906
Ion	Ratio	Lower	Upper
84	100		
49	129.7	104.8	157.2
51	39.8	33.0	49.4
86	59.3	50.5	75.7



#29
Tetrahydrofuran
Concen: 0.304 ug/l
RT: 7.21 min Scan# 1691
Delta R.T. 0.02 min
Lab File: VN058041.D
Acq: 14 Sep 2019 00:31

Tgt Ion:	42	Resp:	533
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	31.9	47.9#

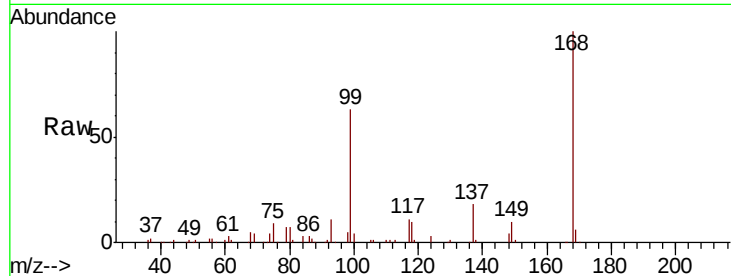




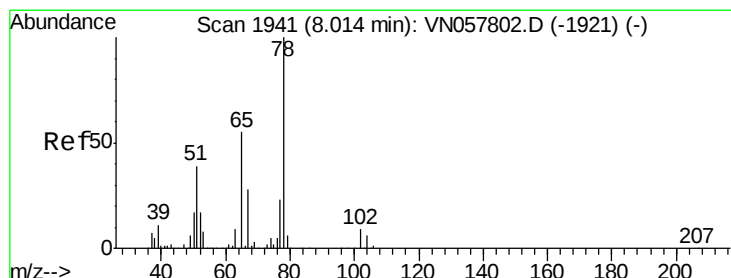
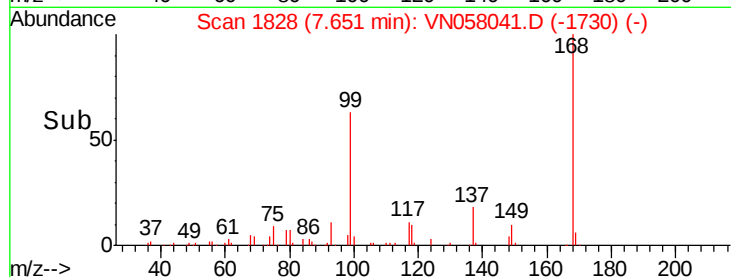
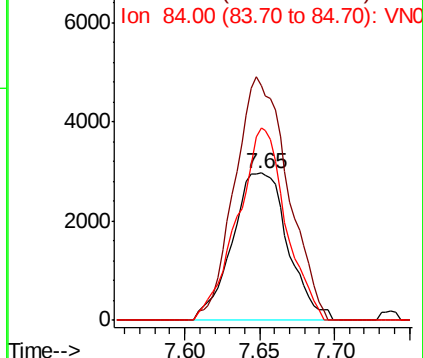
#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN058041.D
Acq: 14 Sep 2019 00:31

Instrument :
MSVOA_N
ClientSampled :
T2-1-(1.5)

Tgt Ion: 56 Resp: 7652
Ion Ratio Lower Upper
56 100
69 159.1 25.9 38.9#
84 130.5 65.6 98.4#

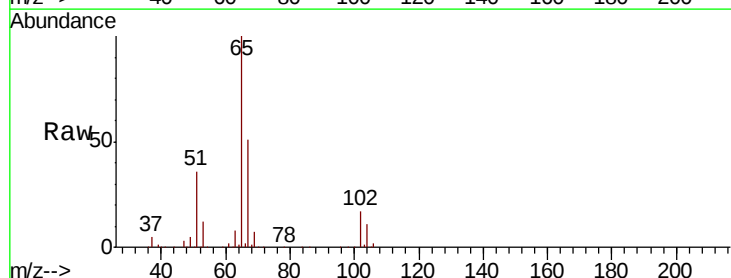


Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

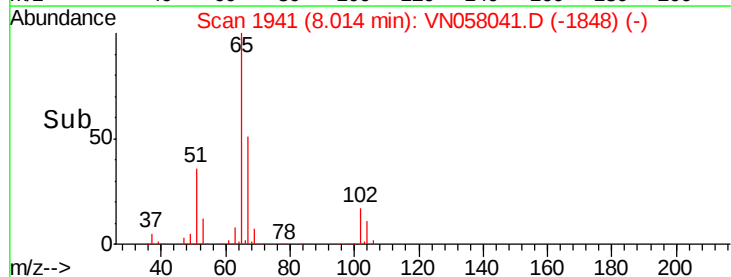
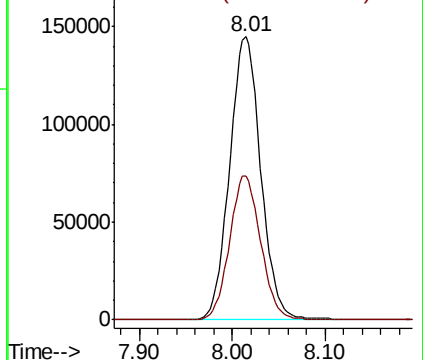


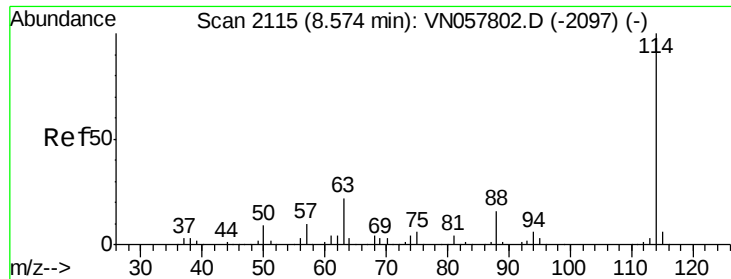
#33
1,2-Dichloroethane-d4
Concen: 56.312 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN058041.D
Acq: 14 Sep 2019 00:31

Tgt Ion: 65 Resp: 337225
Ion Ratio Lower Upper
65 100
67 50.7 0.0 104.0



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

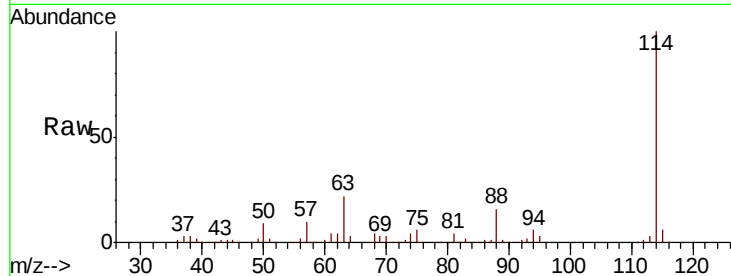




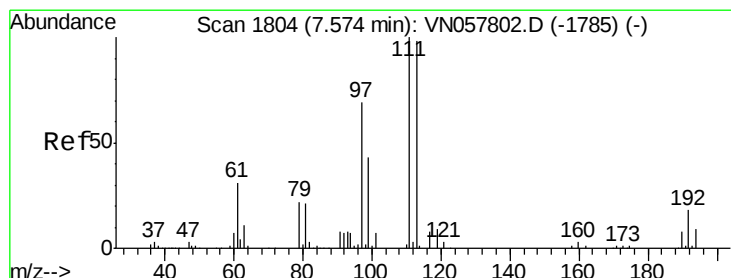
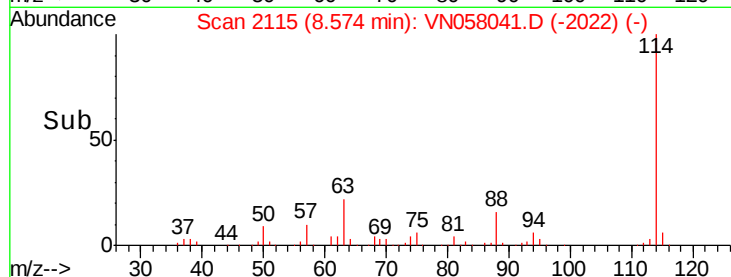
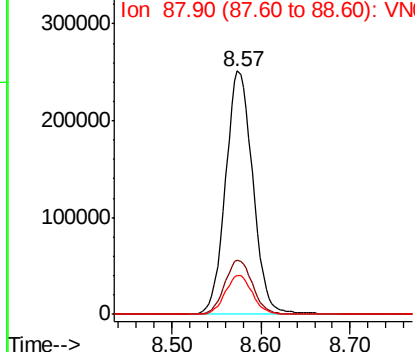
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058041.D
 Acq: 14 Sep 2019 00:31

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-1-(1.5)

Tgt Ion:114 Resp: 532064
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 44.0
 88 16.0 0.0 31.4

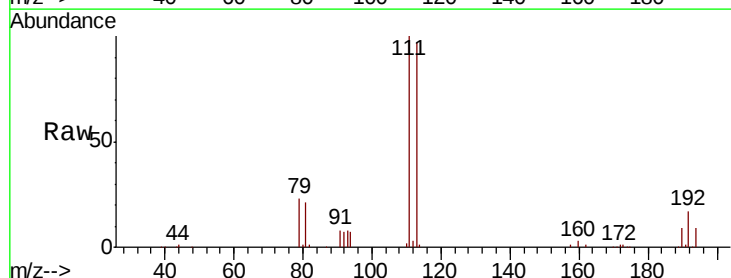


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

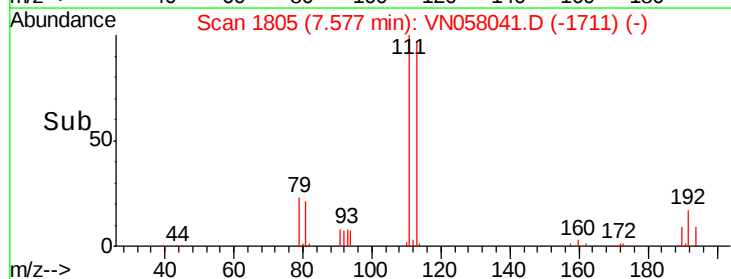
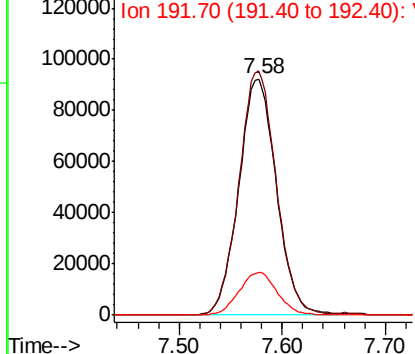


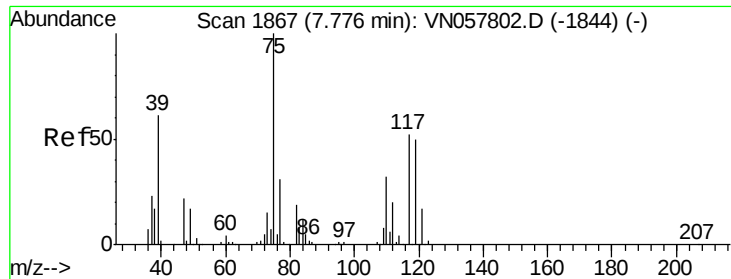
#35
 Dibromofluoromethane
 Concen: 47.694 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058041.D
 Acq: 14 Sep 2019 00:31

Tgt Ion:113 Resp: 234214
 Ion Ratio Lower Upper
 113 100
 111 102.6 81.3 121.9
 192 18.4 14.6 22.0



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

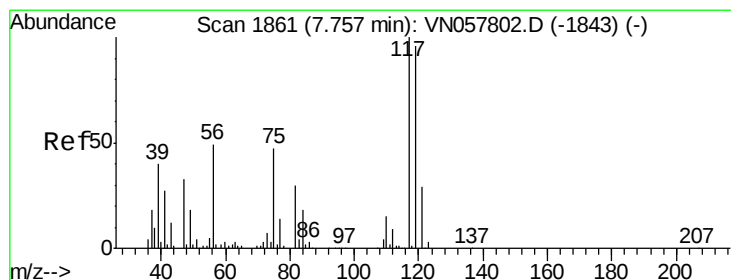
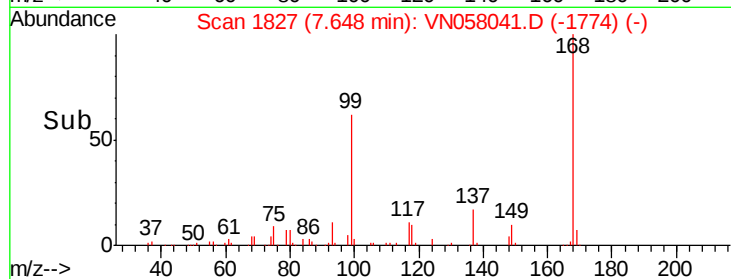
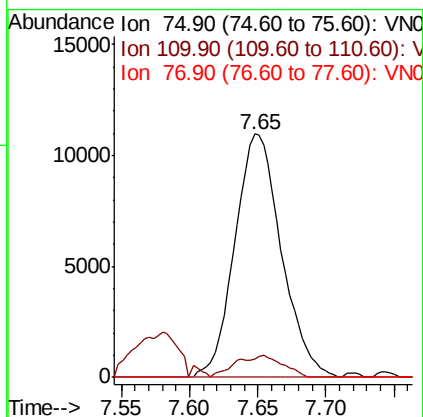
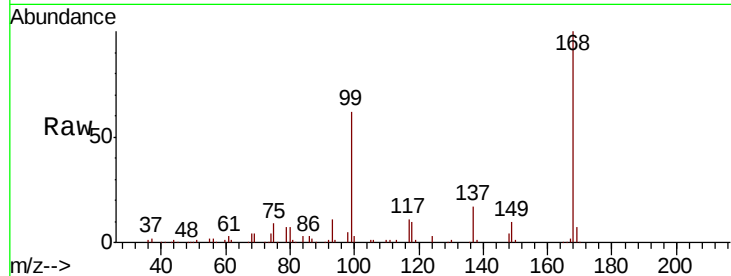




#36
 1,1-Dichloropropene
 Concen: 4.210 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058041.D
 Acq: 14 Sep 2019 00:31

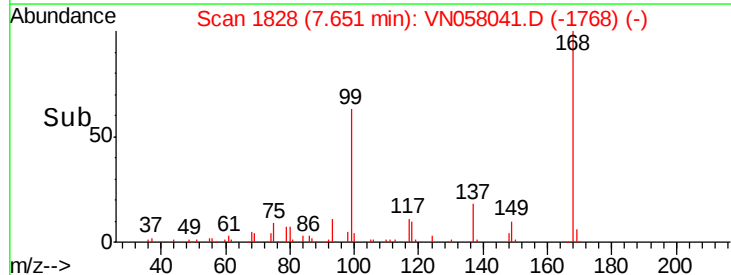
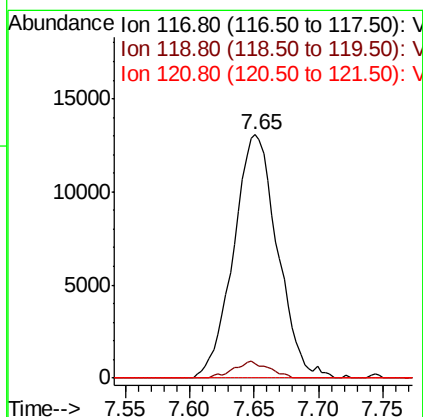
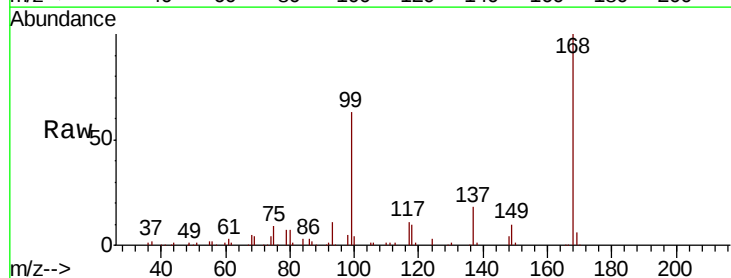
Instrument :
 MSVOA_N
 ClientSampleId :
 T2-1-(1.5)

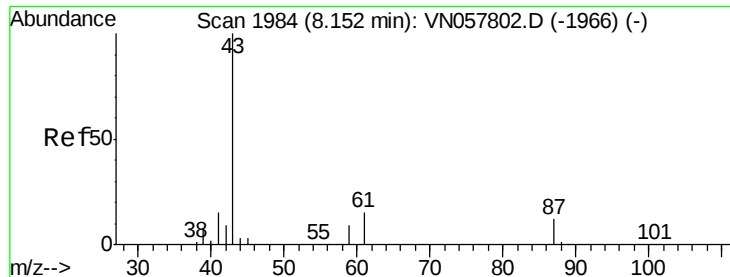
Tgt Ion: 75 Resp: 25975
 Ion Ratio Lower Upper
 75 100
 110 5.6 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.494 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN058041.D
 Acq: 14 Sep 2019 00:31

Tgt Ion: 117 Resp: 30949
 Ion Ratio Lower Upper
 117 100
 119 5.9 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 9.206 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN058041.D

Acq: 14 Sep 2019 00:31

Instrument :

MSVOA_N

ClientSampleId :

T2-1-(1.5)

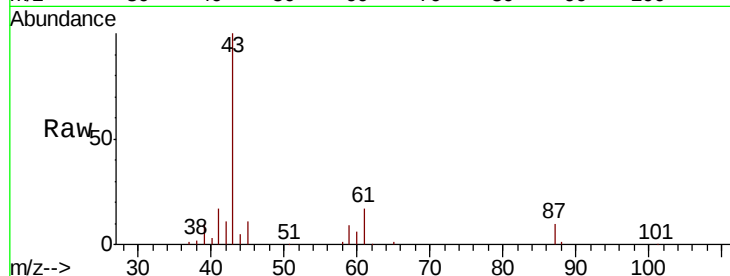
Tgt Ion: 43 Resp: 98699

Ion Ratio Lower Upper

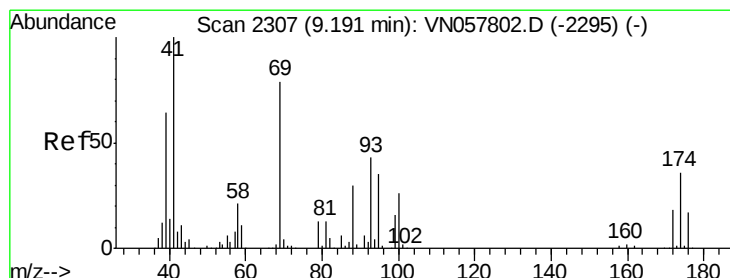
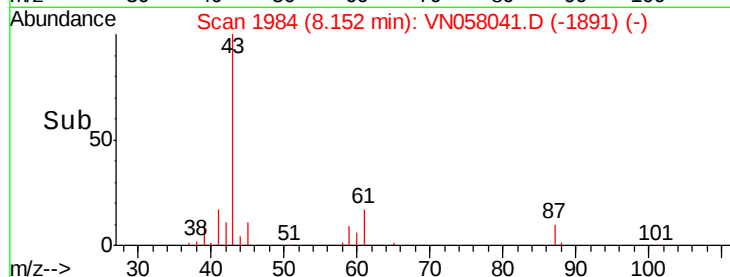
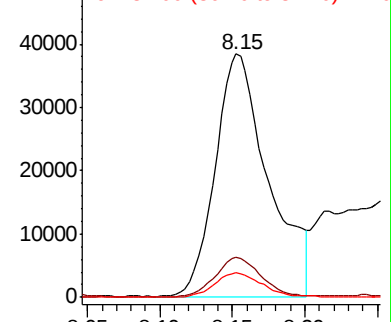
43 100

61 14.5 20.1 30.1#

87 8.9 9.5 14.3#



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

Methyl methacrylate

Concen: 0.755 ug/l

RT: 9.18 min Scan# 2303

Delta R.T. -0.01 min

Lab File: VN058041.D

Acq: 14 Sep 2019 00:31

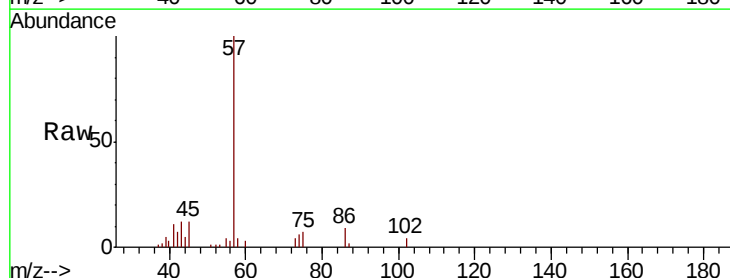
Tgt Ion: 41 Resp: 4108

Ion Ratio Lower Upper

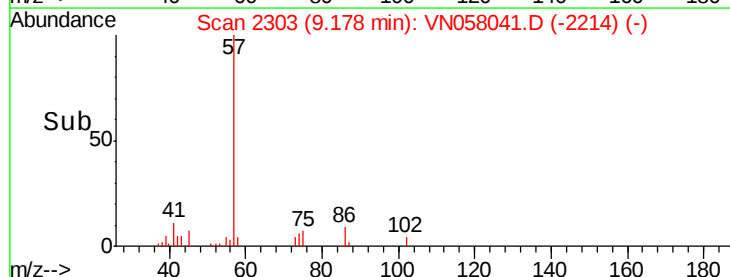
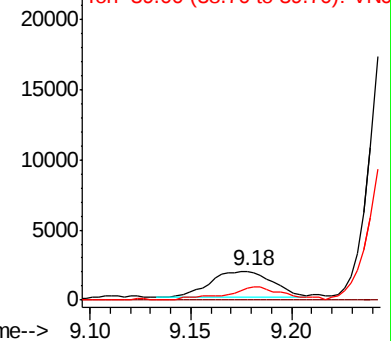
41 100

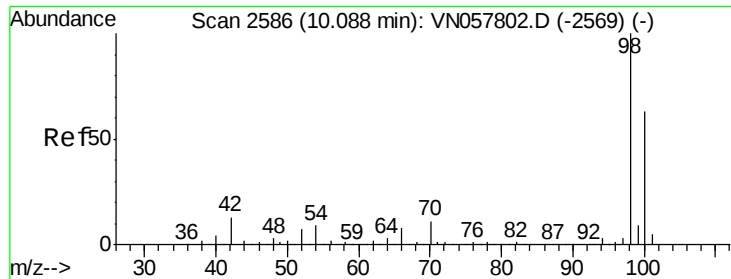
69 0.0 62.7 94.1#

39 0.0 52.7 79.1#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 45.740 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058041.D

Acq: 14 Sep 2019 00:31

Instrument :

MSVOA_N

ClientSampled :

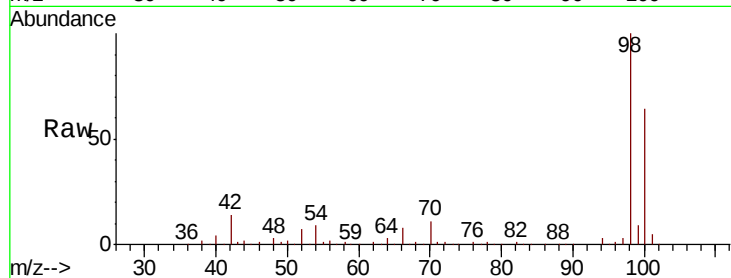
T2-1-(1.5)

Tgt Ion: 98 Resp: 872091

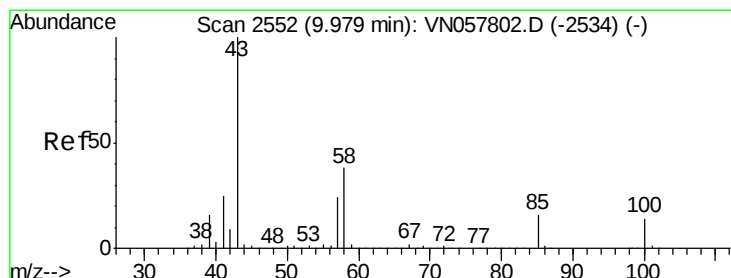
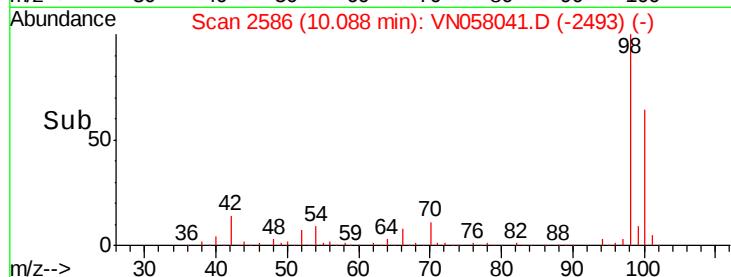
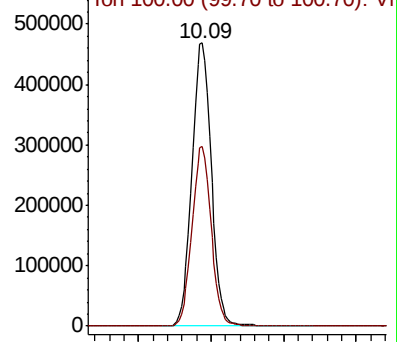
Ion Ratio Lower Upper

98 100

100 62.4 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN057802.D (-2569) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.152 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058041.D

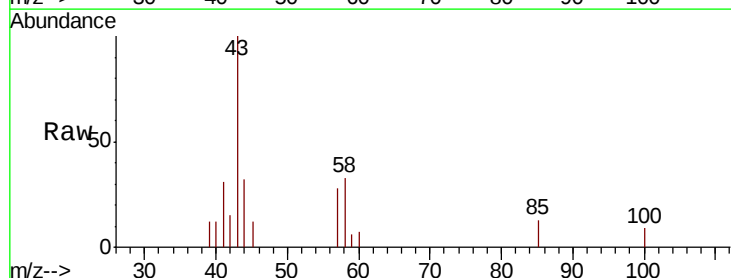
Acq: 14 Sep 2019 00:31

Tgt Ion: 43 Resp: 7310

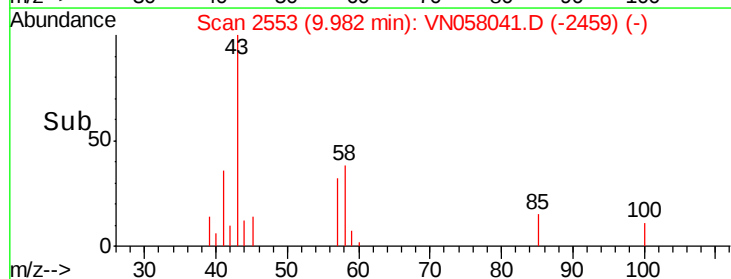
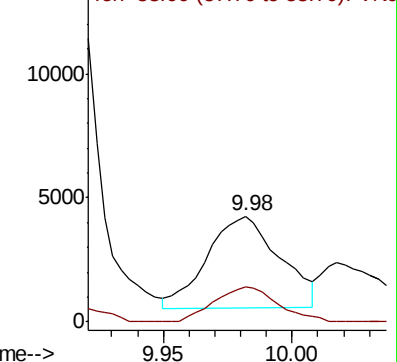
Ion Ratio Lower Upper

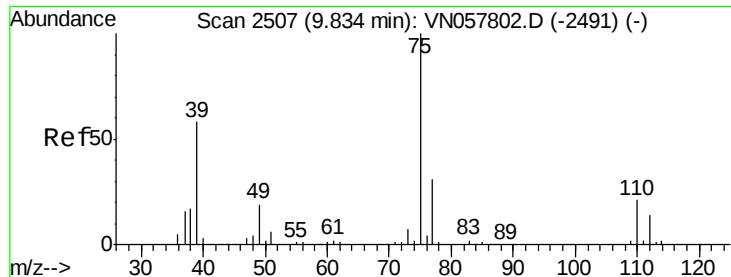
43 100

58 33.6 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-2534) (-)





#54

cis-1,3-Dichloropropene

Concen: 4.938 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN058041.D

Acq: 14 Sep 2019 00:31

Instrument :

MSVOA_N

ClientSampled :

T2-1-(1.5)

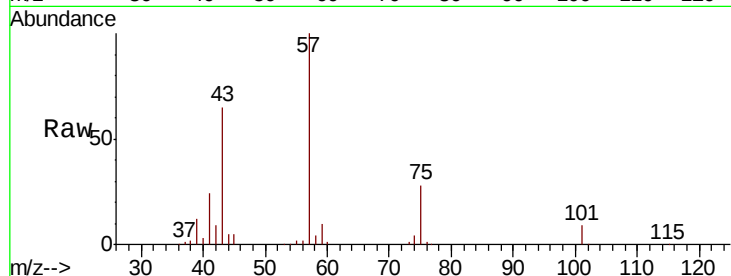
Tgt Ion: 75 Resp: 37451

Ion Ratio Lower Upper

75 100

77 0.8 24.8 37.2#

39 42.0 46.2 69.4#

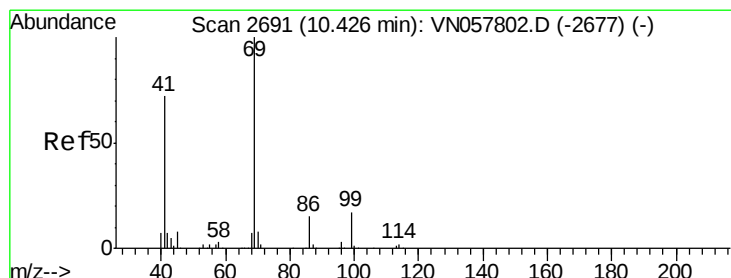
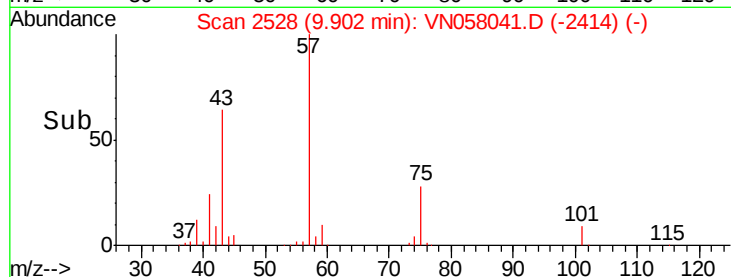
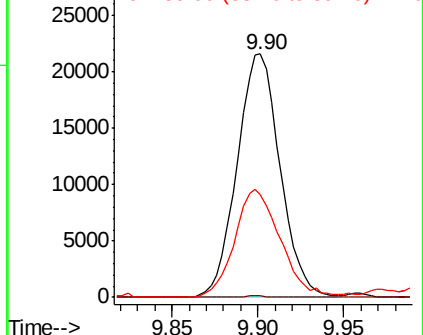


Abundance

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



#56

Ethyl methacrylate

Concen: 0.264 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN058041.D

Acq: 14 Sep 2019 00:31

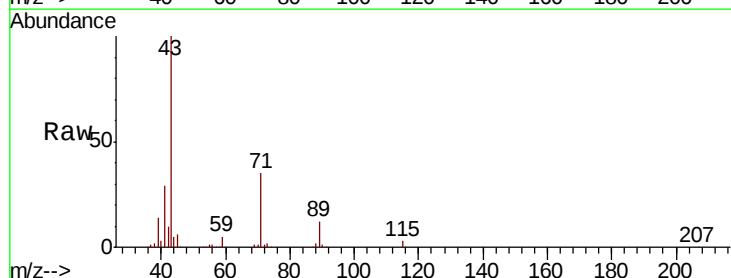
Tgt Ion: 69 Resp: 1972

Ion Ratio Lower Upper

69 100

41 5102.5 56.7 85.1#

39 2402.0 36.3 54.5#

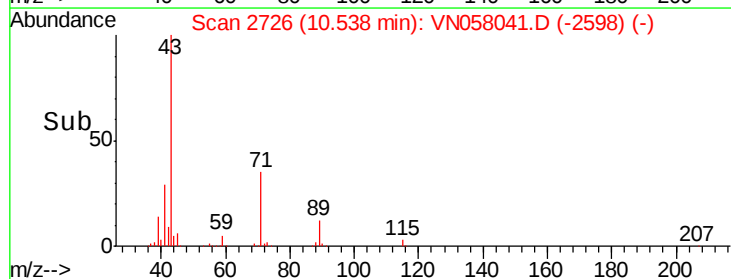
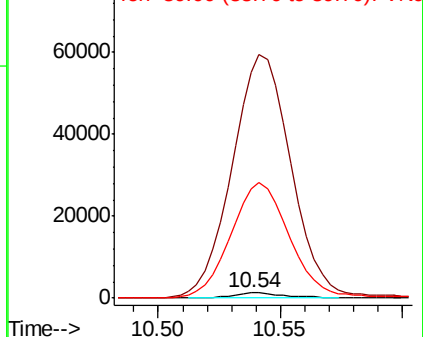


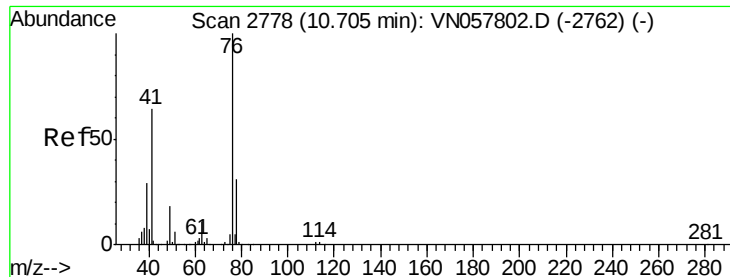
Abundance

Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

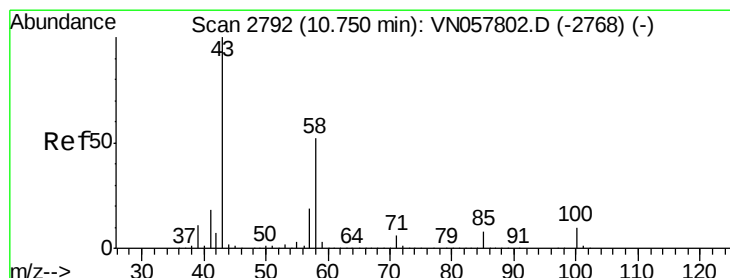
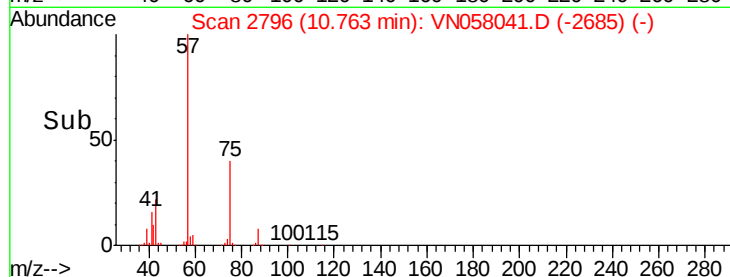
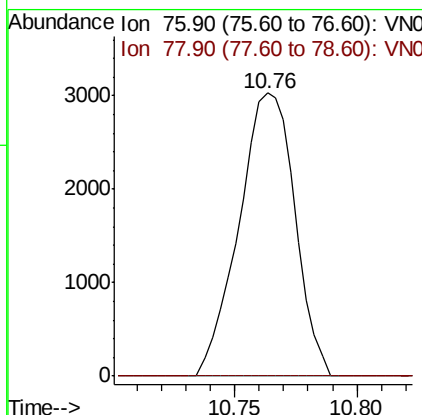
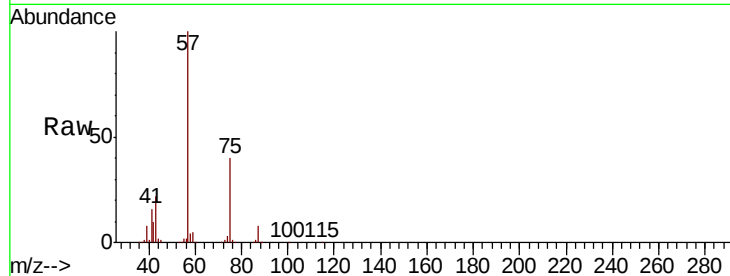




#57
 1,3-Dichloropropane
 Concen: 0.564 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN058041.D
 Acq: 14 Sep 2019 00:31

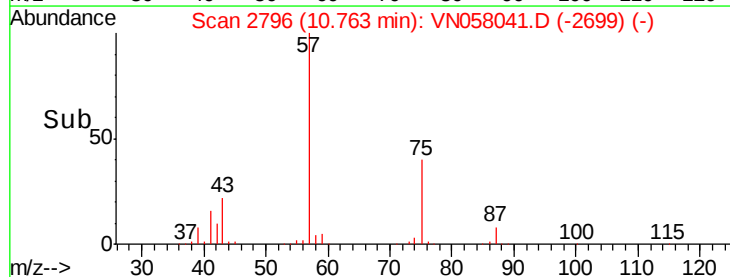
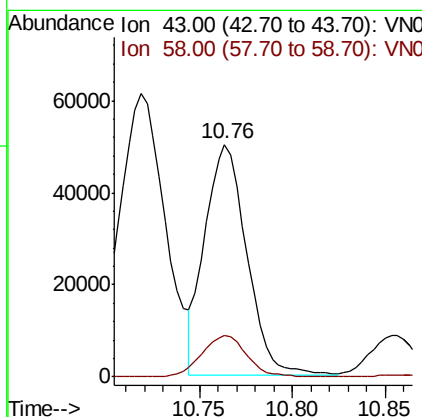
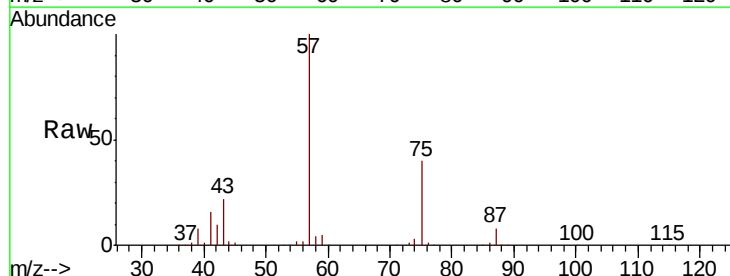
Instrument :
 MSVOA_N
 ClientSampleId :
 T2-1-(1.5)

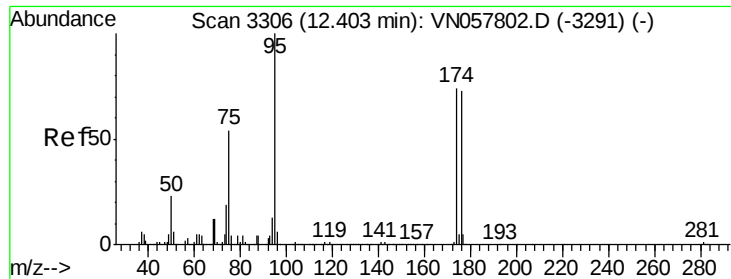
Tgt Ion: 76 Resp: 4817
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 16.449 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058041.D
 Acq: 14 Sep 2019 00:31

Tgt Ion: 43 Resp: 78223
 Ion Ratio Lower Upper
 43 100
 58 19.3 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 40.937 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058041.D

Acq: 14 Sep 2019 00:31

Instrument :

MSVOA_N

ClientSampled :

T2-1-(1.5)

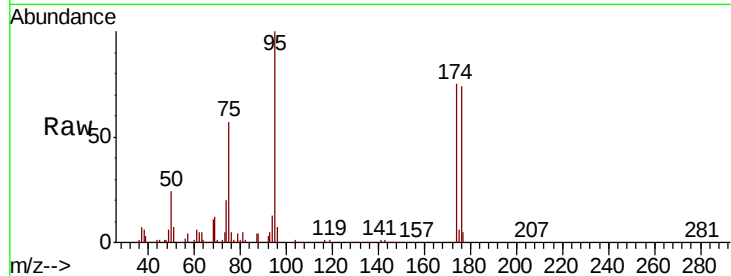
Tgt Ion: 95 Resp: 297440

Ion Ratio Lower Upper

95 100

174 75.6 0.0 150.2

176 73.7 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.40

200000

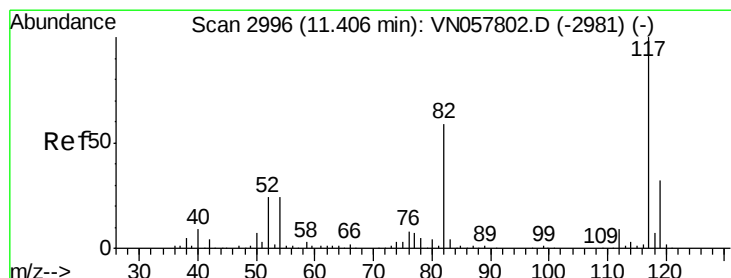
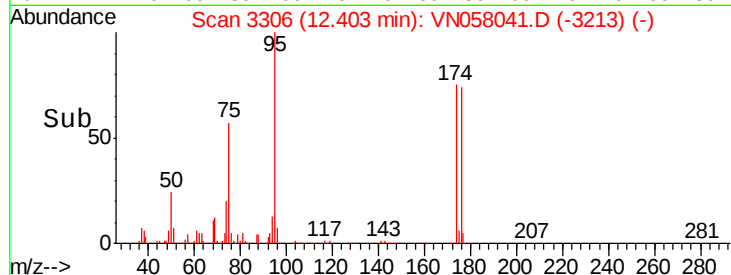
150000

100000

50000

0

Time--> 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: VN058041.D

Acq: 14 Sep 2019 00:31

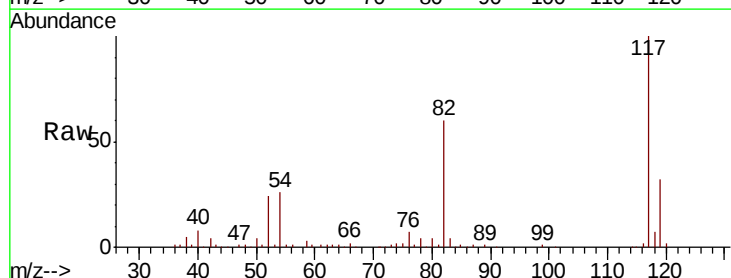
Tgt Ion: 117 Resp: 481776

Ion Ratio Lower Upper

117 100

82 60.4 47.2 70.8

119 31.6 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

11.41

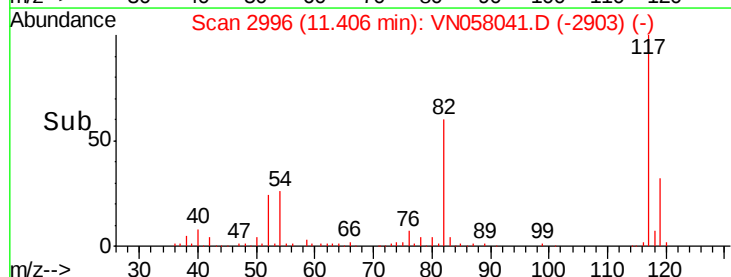
300000

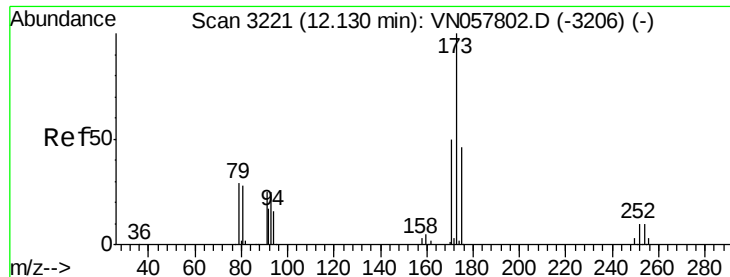
200000

100000

0

Time--> 11.30 11.40 11.50





#71

Bromoform

Concen: 0.244 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN058041.D

Acq: 14 Sep 2019 00:31

Instrument :

MSVOA_N

ClientSampled :

T2-1-(1.5)

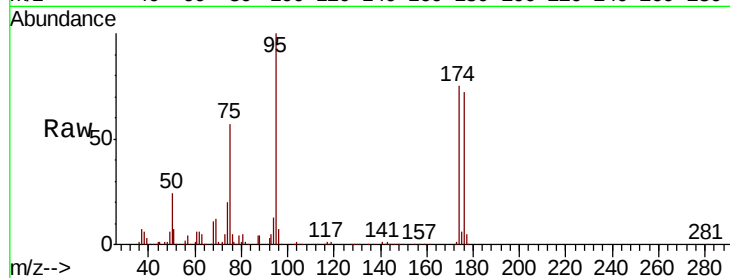
Tgt Ion:173 Resp: 666

Ion Ratio Lower Upper

173 100

175 0.0 23.5 70.6#

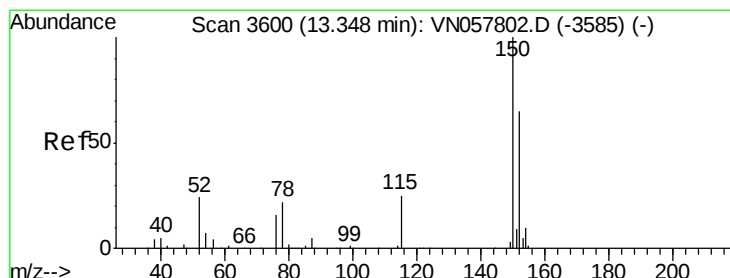
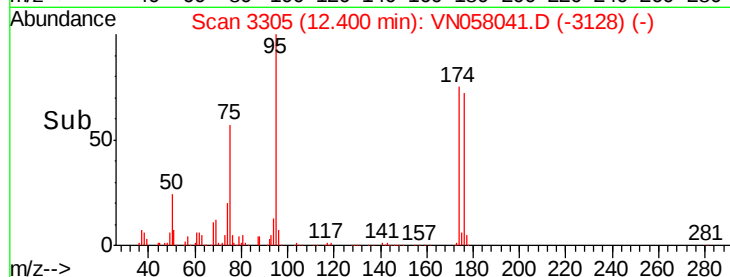
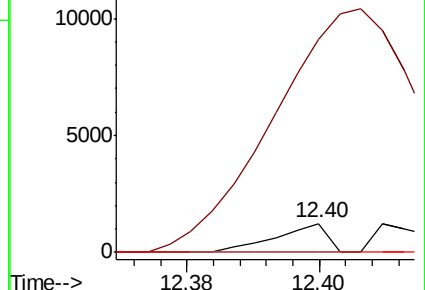
254 0.0 0.1 0.1#



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# 3600

Delta R.T. 0.00 min

Lab File: VN058041.D

Acq: 14 Sep 2019 00:31

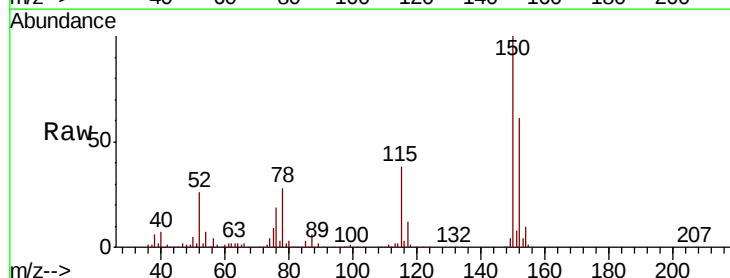
Tgt Ion:152 Resp: 242700

Ion Ratio Lower Upper

152 100

115 62.6 30.3 91.0

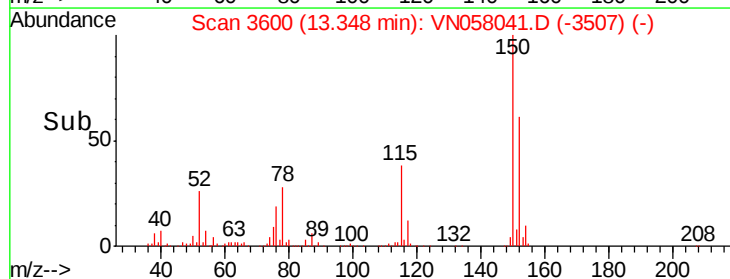
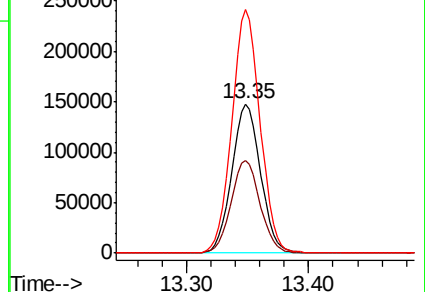
150 159.8 0.0 352.4

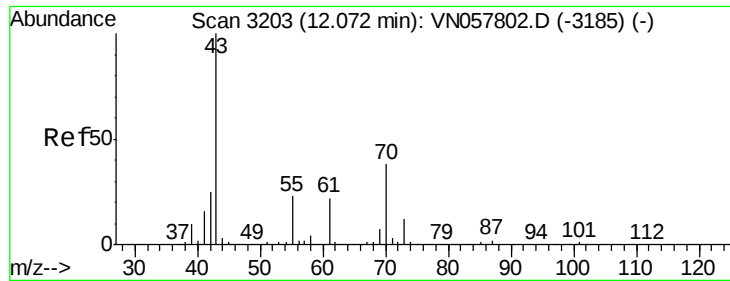


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

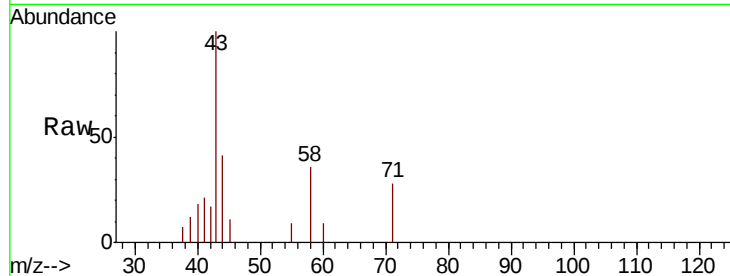




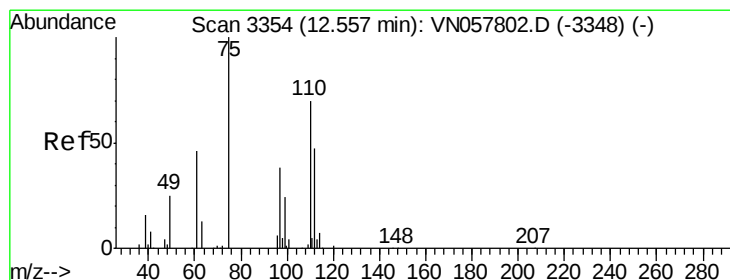
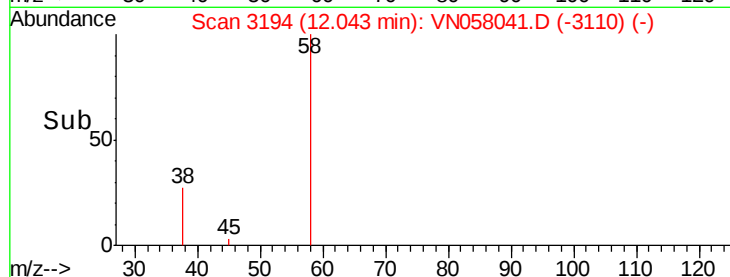
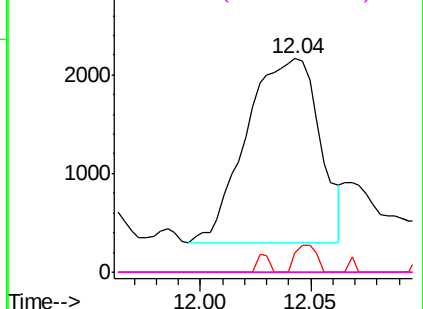
#74
N-ethyl acetate
Concen: 0.523 ug/l
RT: 12.04 min Scan# 3194
Delta R.T. -0.03 min
Lab File: VN058041.D
Acq: 14 Sep 2019 00:31

Instrument :
MSVOA_N
ClientSampleId :
T2-1-(1.5)

Tgt Ion: 43 Resp: 4285
Ion Ratio Lower Upper
43 100
70 0.0 30.6 45.8#
55 4.2 18.6 27.8#
61 0.0 17.4 26.2#

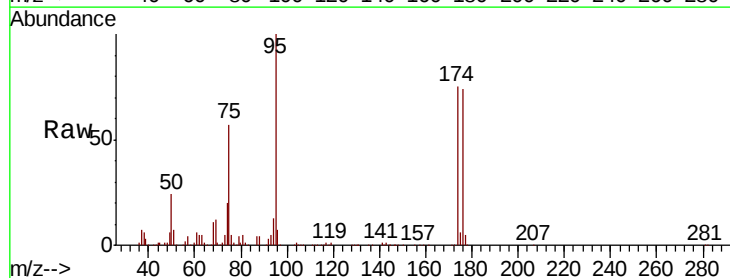


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 70.00 (69.70 to 70.70): VN0
Ion 55.00 (54.70 to 55.70): VN0
Ion 61.00 (60.70 to 61.70): VN0

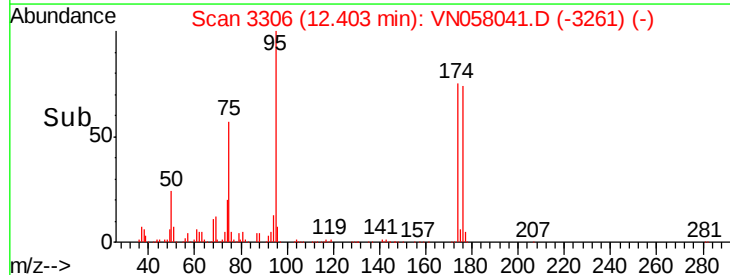
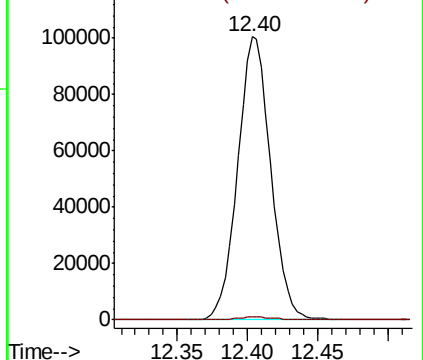


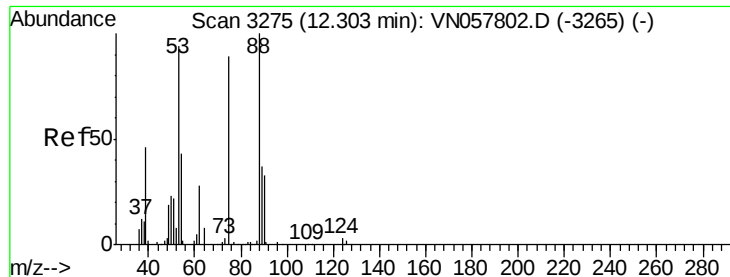
#76
1,2,3-Trichloropropane
Concen: 30.050 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN058041.D
Acq: 14 Sep 2019 00:31

Tgt Ion: 75 Resp: 164981
Ion Ratio Lower Upper
75 100
77 1.2 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: 105.745 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058041.D

Acq: 14 Sep 2019 00:31

Instrument :

MSVOA_N

ClientSampleId :

T2-1-(1.5)

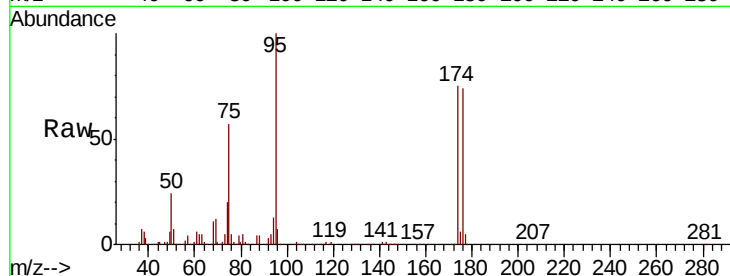
Tgt Ion: 75 Resp: 164981

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

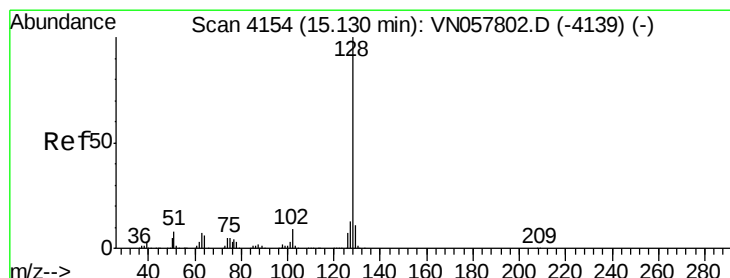
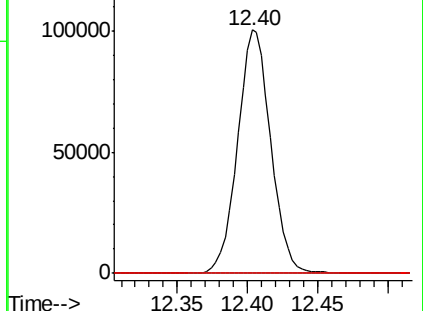
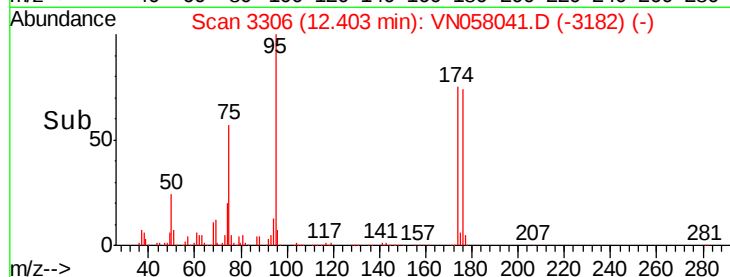
89 0.0 35.3 52.9#



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



#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4158

Delta R.T. 0.01 min

Lab File: VN058041.D

Acq: 14 Sep 2019 00:31

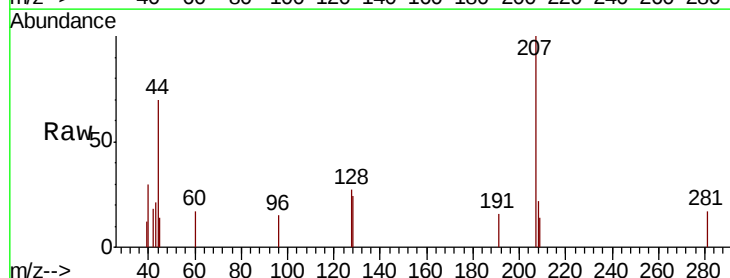
Tgt Ion: 128 Resp: 894

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.6 12.8#



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

