

Data File : VN057751.D
Acq On : 7 Sep 2019 14:22
Operator : JC/SP
Sample : K4581-22
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 12 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
T12-C1-(0)

Quant Time: Sep 08 06:34:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
Quant Title : SW846 8260
QLast Update : Fri Sep 06 03:46:54 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	214842	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	334658	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	310842	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	161113	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	247630	47.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.76%	
35) Dibromofluoromethane	7.57	113	151034	49.55	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.10%	
50) Toluene-d8	10.09	98	579749	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
62) 4-Bromofluorobenzene	12.40	95	214049	45.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.40%	

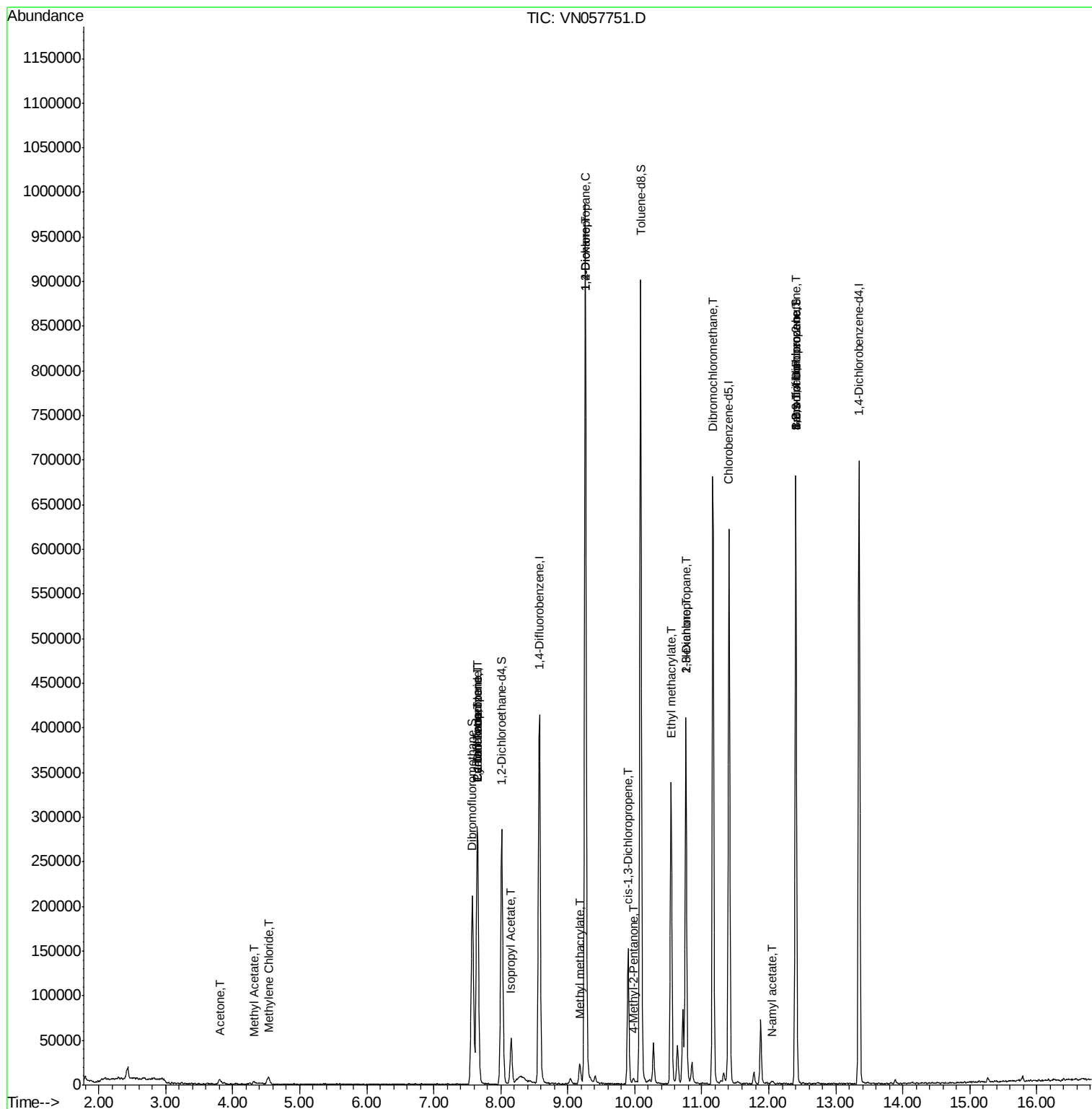
Target Compounds				Qvalue		
3) Chloromethane	2.04	50	433	Below Cal		90
16) Acetone	3.81	43	8591	5.341	ug/l	91
18) Methyl Acetate	4.32	43	3121	0.714	ug/l #	75
20) Methylene Chloride	4.53	84	4734	1.361	ug/l	89
31) Cyclohexane	7.65	56	6821	1.163	ug/l #	30
36) 1,1-Dichloropropene	7.65	75	19463	4.372	ug/l #	52
38) Carbon Tetrachloride	7.65	117	22794	5.347	ug/l #	17
43) Isopropyl Acetate	8.16	43	61027	7.193	ug/l	100
45) 1,2-Dichloropropane	9.26	63	792	0.225	ug/l #	44
48) Methyl methacrylate	9.18	41	3574	0.819	ug/l #	16
49) 1,4-Dioxane	9.27	88	30	0.591	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5014	1.064	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	23397	4.496	ug/l #	65
56) Ethyl methacrylate	10.54	69	1188	0.242	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3963	0.718	ug/l #	43
59) 2-Hexanone	10.76	43	67392	20.284	ug/l #	58
60) Dibromochloromethane	11.16	129	34	1.863	ug/l #	11
71) Bromoform	12.39	173	630	3.521	ug/l #	28
74) N-amyl acetate	12.04	43	1971	0.277	ug/l #	54
76) 1,2,3-Trichloropropane	12.40	75	125625	33.955	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	125625	105.600	ug/l #	1

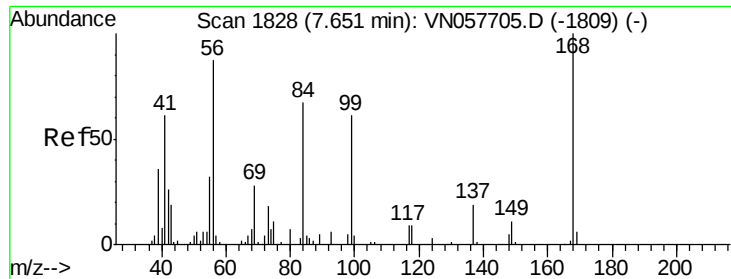
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

Instrument :

MSVOA_N

ClientSampleId :

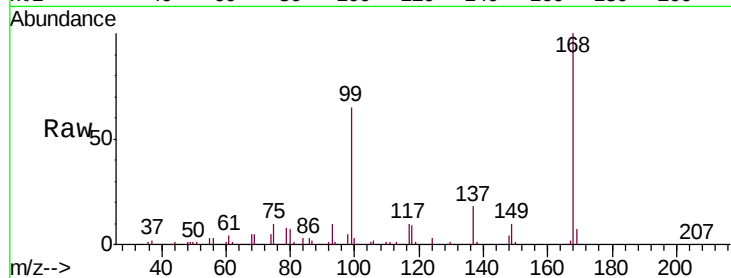
T12-C1-(0)

Tgt Ion:168 Resp: 214842

Ion Ratio Lower Upper

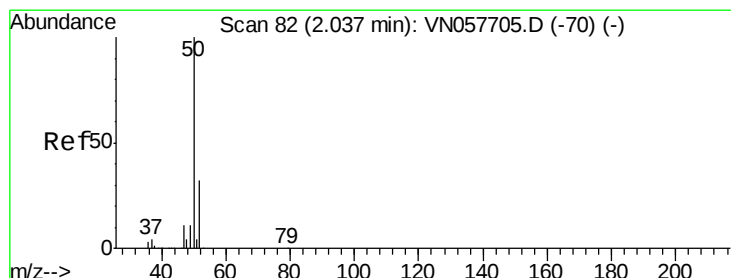
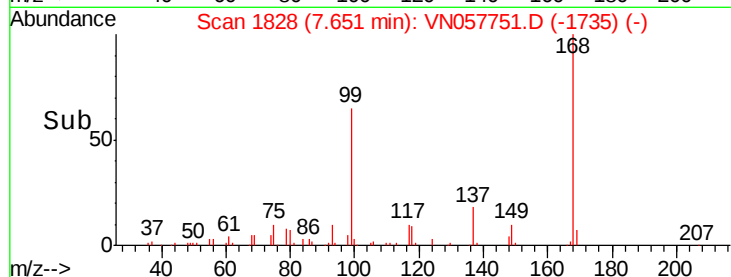
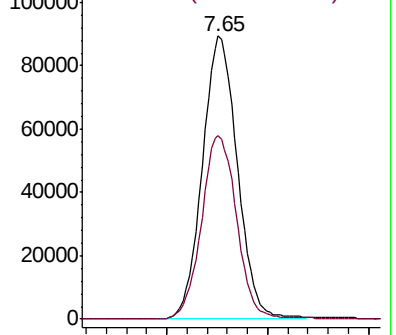
168 100

99 64.9 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 84

Delta R.T. 0.01 min

Lab File: VN057751.D

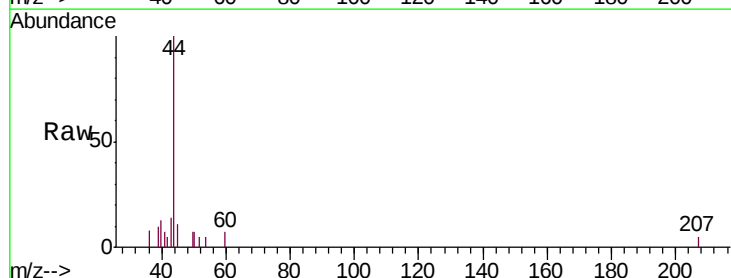
Acq: 7 Sep 2019 14:22

Tgt Ion: 50 Resp: 433

Ion Ratio Lower Upper

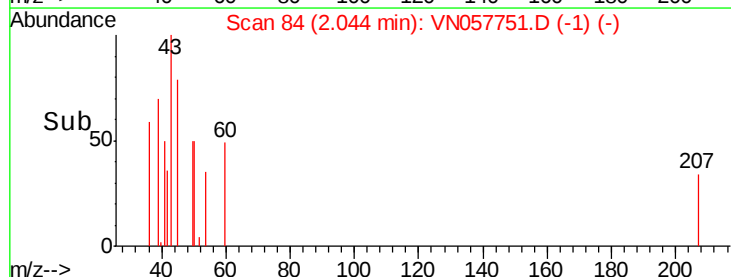
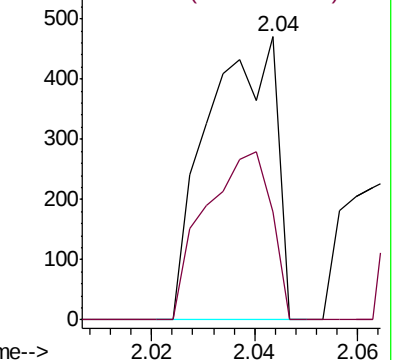
50 100

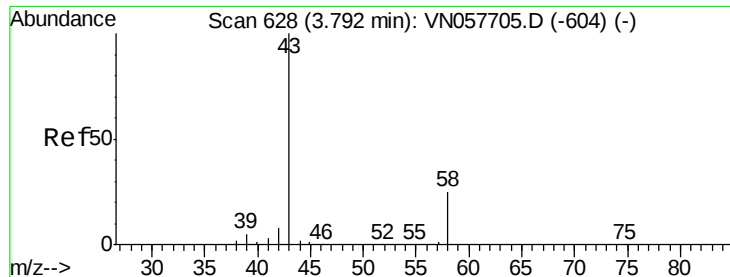
52 38.3 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#16

Acetone

Concen: 5.341 ug/l

RT: 3.81 min Scan# 633

Delta R.T. 0.02 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

Instrument :

MSVOA_N

ClientSampleId :

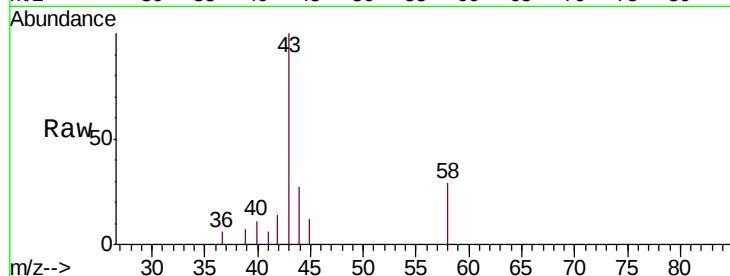
T12-C1-(0)

Tgt Ion: 43 Resp: 8591

Ion Ratio Lower Upper

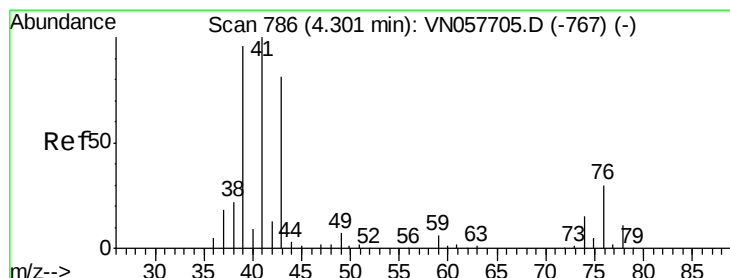
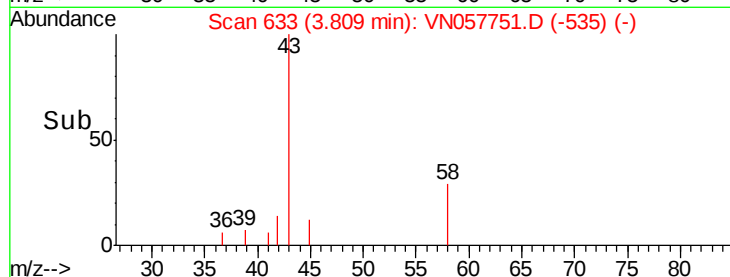
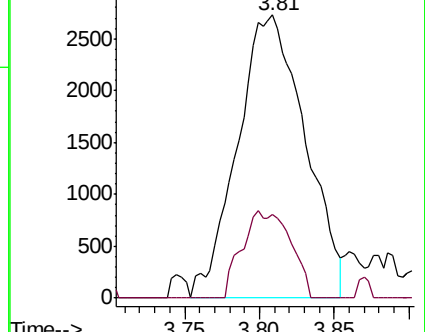
43 100

58 29.5 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-604) (-)

Ion 58.00 (57.70 to 58.70): VN057705.D (-604) (-)



#18

Methyl Acetate

Concen: 0.714 ug/l

RT: 4.32 min Scan# 793

Delta R.T. 0.02 min

Lab File: VN057751.D

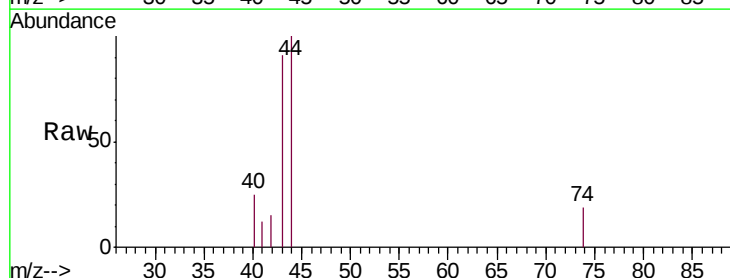
Acq: 7 Sep 2019 14:22

Tgt Ion: 43 Resp: 3121

Ion Ratio Lower Upper

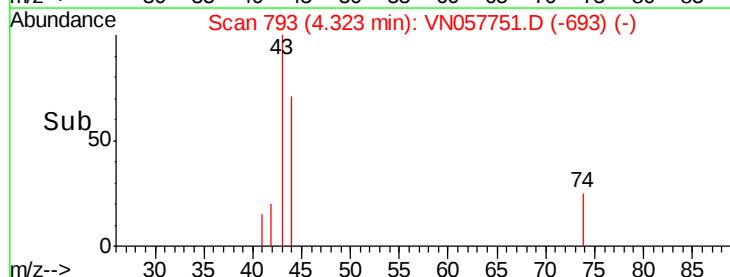
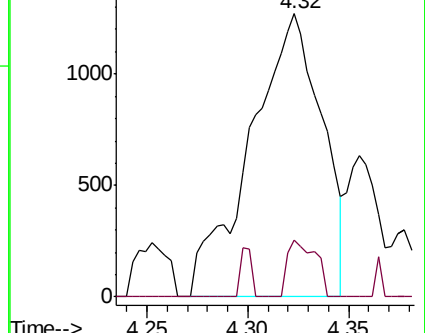
43 100

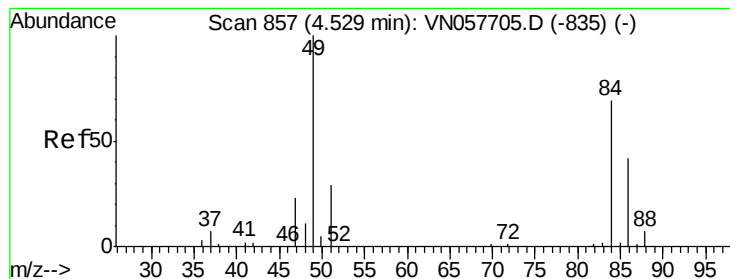
74 7.8 15.3 22.9#



Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-767) (-)

Ion 74.00 (73.70 to 74.70): VN057705.D (-767) (-)





#20

Methylene Chloride

Concen: 1.361 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.00 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

Instrument :

MSVOA_N

ClientSampleId :

T12-C1-(0)

Tgt Ion: 84 Resp: 4734

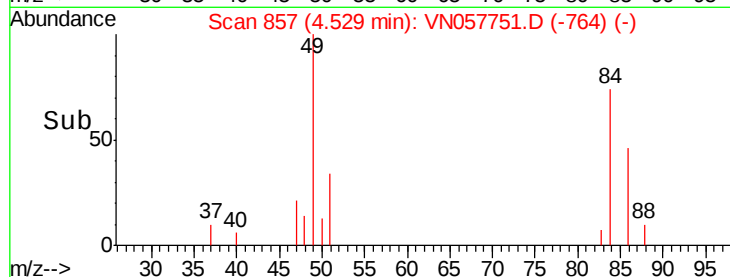
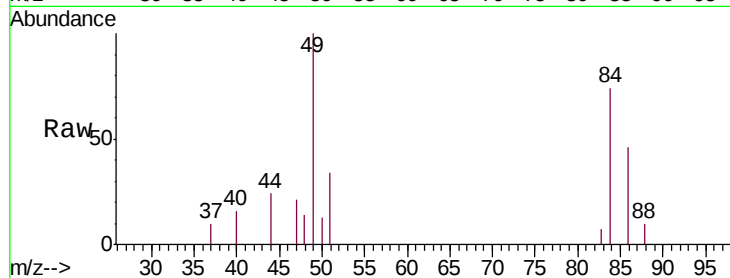
Ion Ratio Lower Upper

84 100

49 123.3 115.0 172.6

51 46.0 33.8 50.8

86 62.1 48.2 72.2

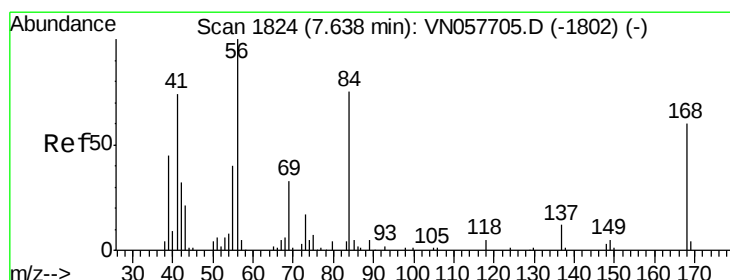
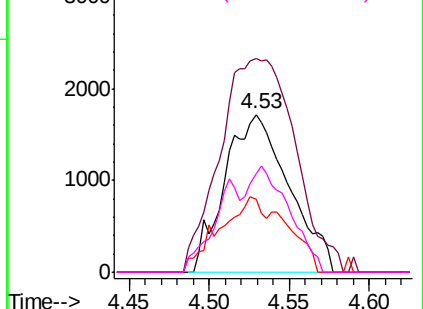


Abundance Ion 83.90 (83.60 to 84.60): VN0

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



#31

Cyclohexane

Concen: 1.163 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

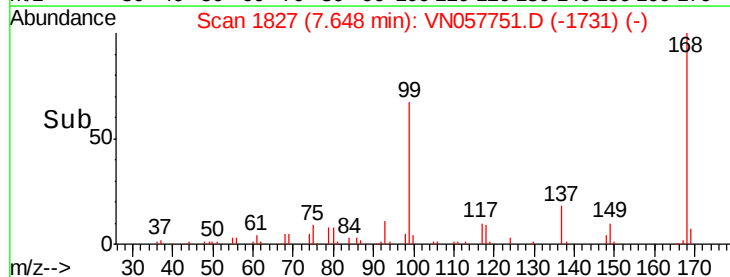
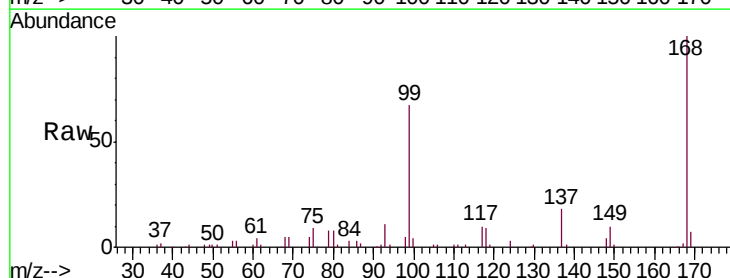
Tgt Ion: 56 Resp: 6821

Ion Ratio Lower Upper

56 100

69 154.1 26.2 39.2#

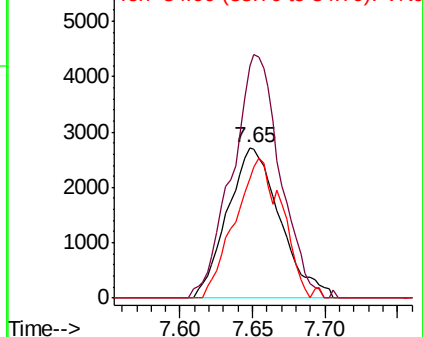
84 79.6 59.8 89.8

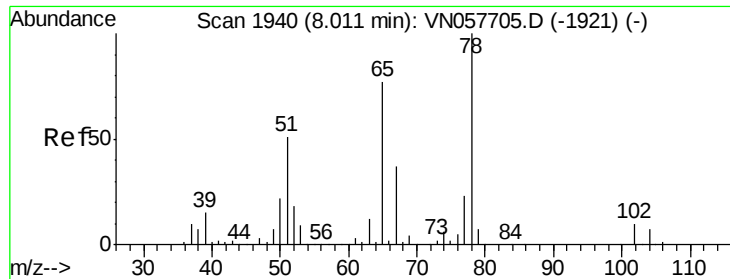


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

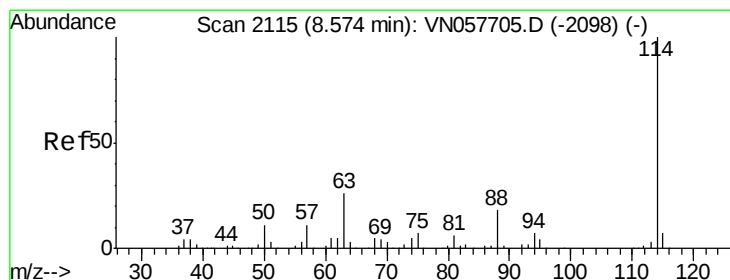
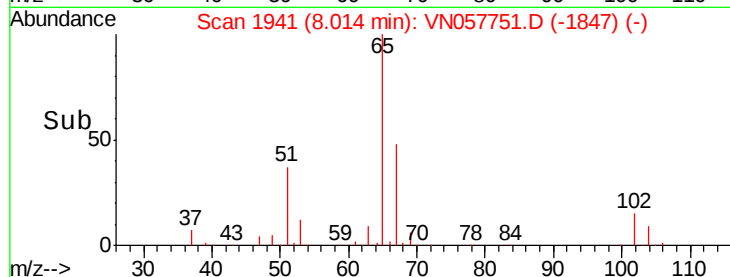
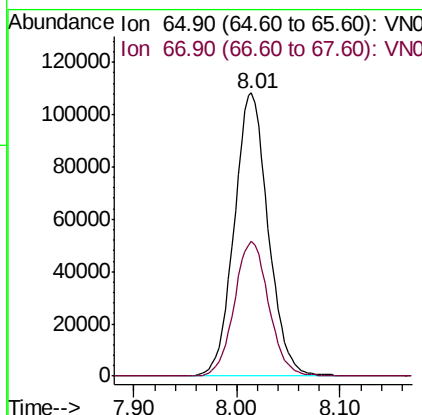
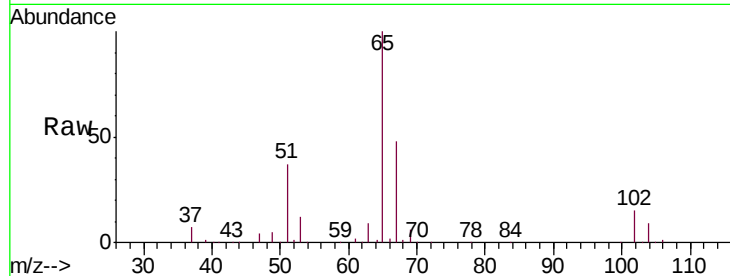




#33
 1,2-Dichloroethane-d4
 Concen: 47.380 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN057751.D
 Acq: 7 Sep 2019 14:22

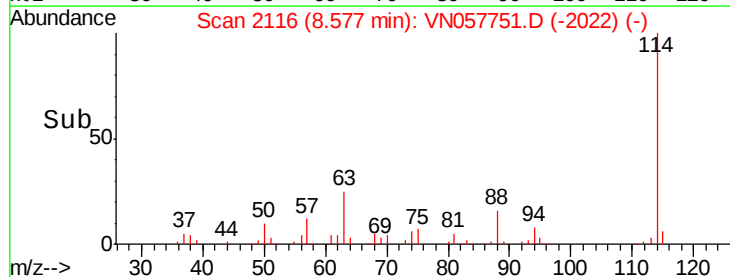
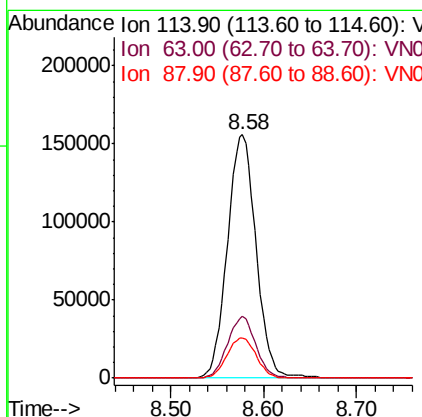
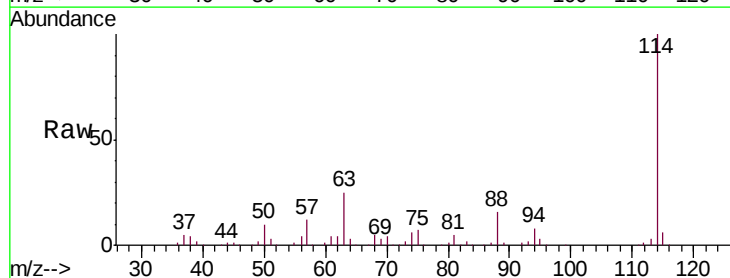
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-C1-(0)

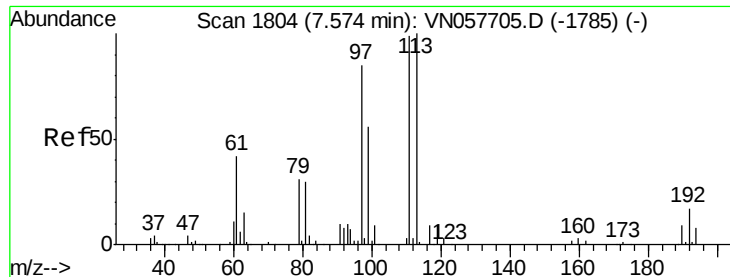
Tgt Ion: 65 Resp: 247630
 Ion Ratio Lower Upper
 65 100
 67 48.3 0.0 98.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057751.D
 Acq: 7 Sep 2019 14:22

Tgt Ion: 114 Resp: 334658
 Ion Ratio Lower Upper
 114 100
 63 25.3 0.0 52.4
 88 16.5 0.0 35.4





#35

Dibromofluoromethane

Concen: 49.548 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

Instrument :

MSVOA_N

ClientSampleId :

T12-C1-(0)

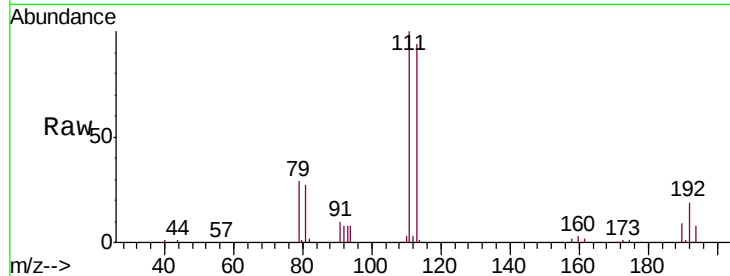
Tgt Ion:113 Resp: 151034

Ion Ratio Lower Upper

113 100

111 103.3 82.7 124.1

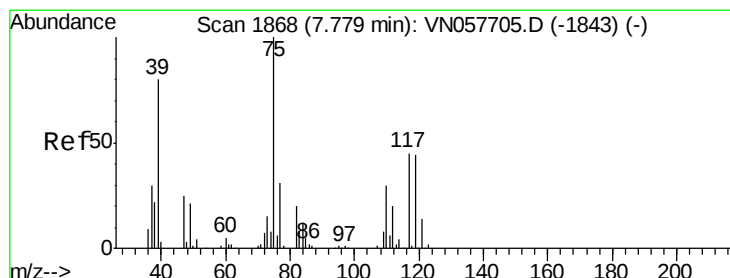
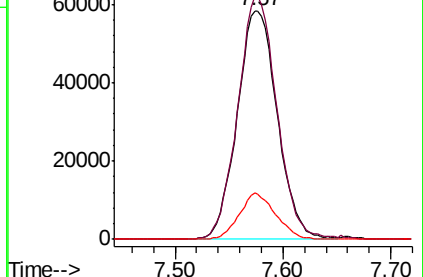
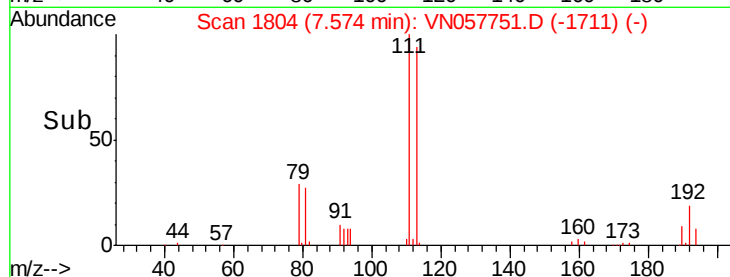
192 18.3 13.8 20.6



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: 4.372 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.13 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

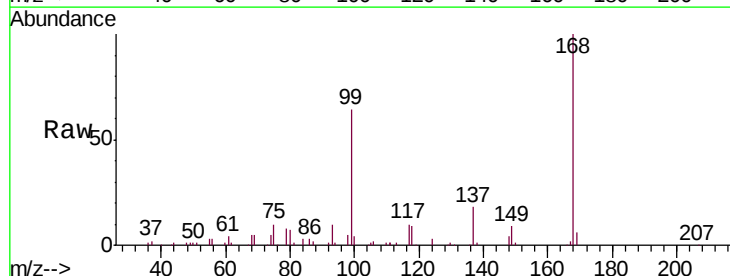
Tgt Ion: 75 Resp: 19463

Ion Ratio Lower Upper

75 100

110 8.6 15.0 45.0#

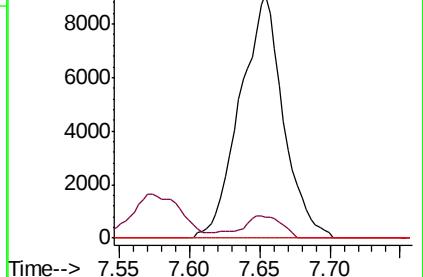
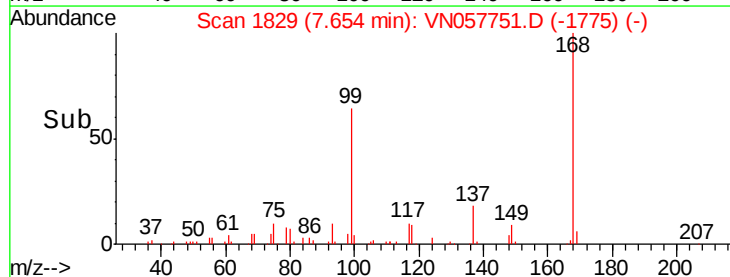
77 0.0 24.6 37.0#

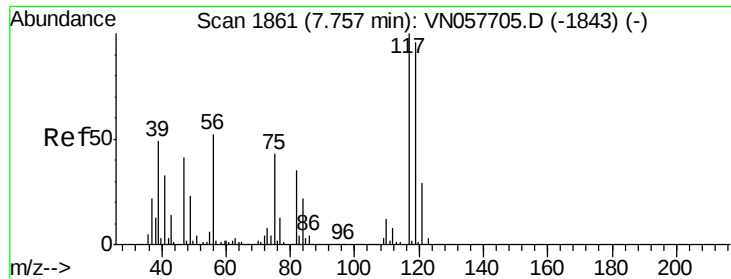


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

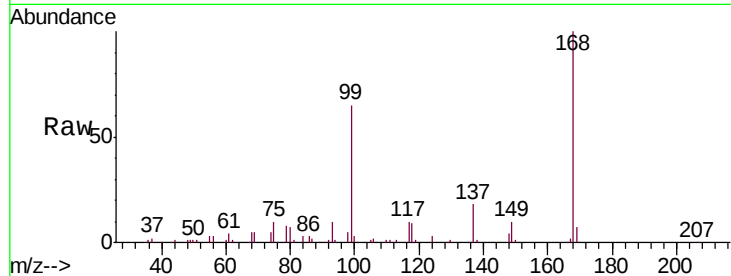




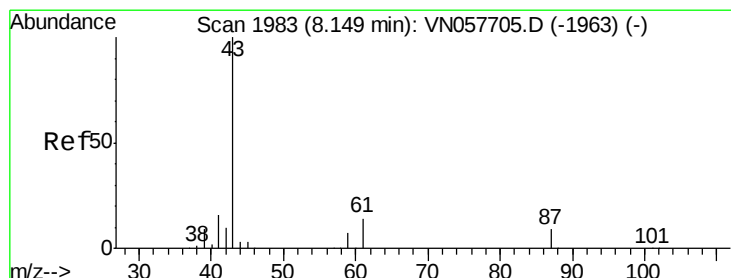
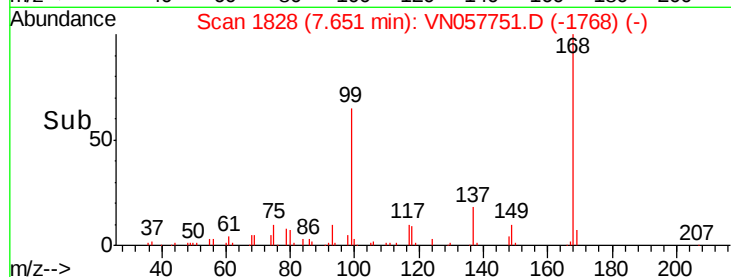
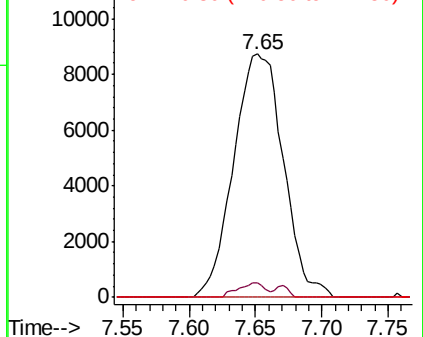
#38
Carbon Tetrachloride
Concen: 5.347 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN057751.D
Acq: 7 Sep 2019 14:22

Instrument :
MSVOA_N
ClientSampleId :
T12-C1-(0)

Tgt Ion:117 Resp: 22794
Ion Ratio Lower Upper
117 100
119 5.7 76.1 114.1#
121 0.0 23.4 35.2#

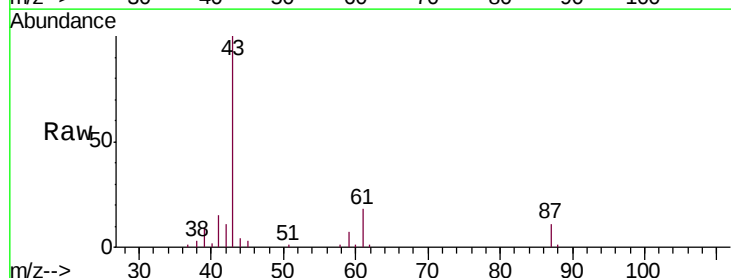


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

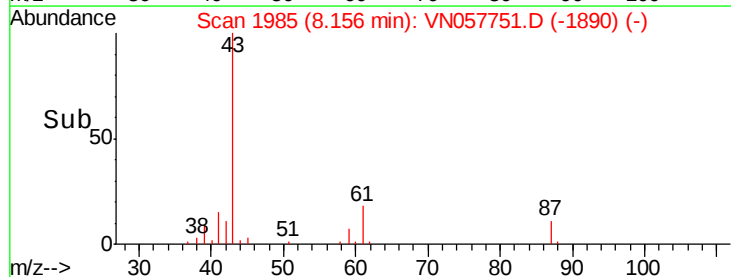
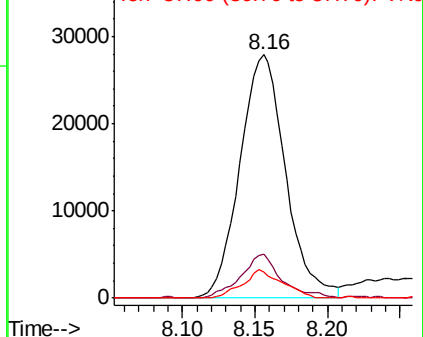


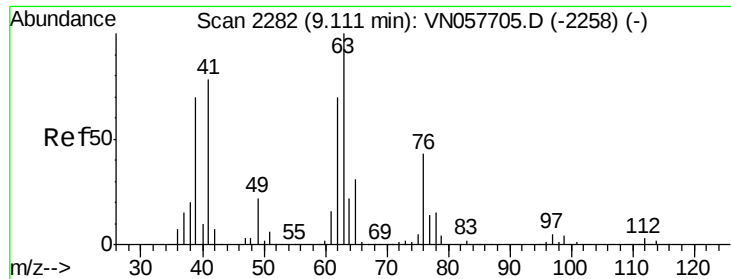
#43
Isopropyl Acetate
Concen: 7.193 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.01 min
Lab File: VN057751.D
Acq: 7 Sep 2019 14:22

Tgt Ion: 43 Resp: 61027
Ion Ratio Lower Upper
43 100
61 16.0 12.8 19.2
87 10.1 7.8 11.8



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

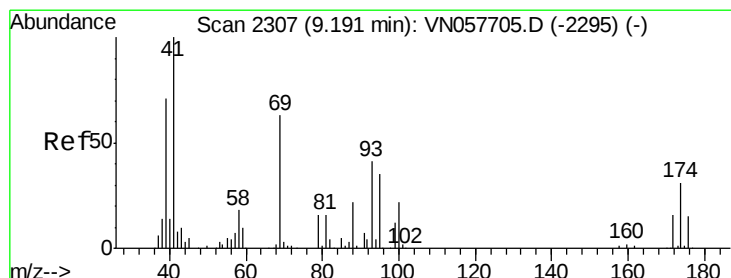
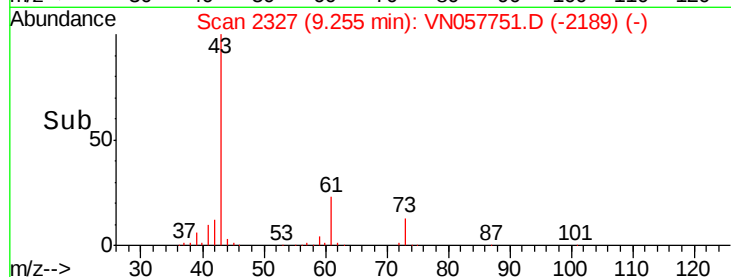
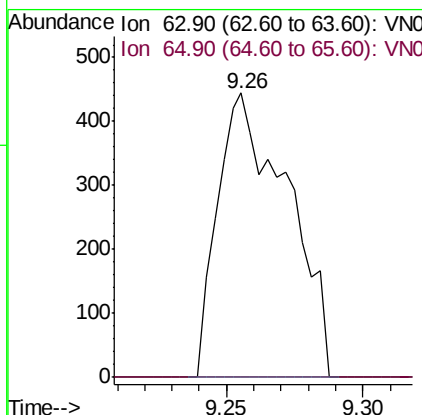
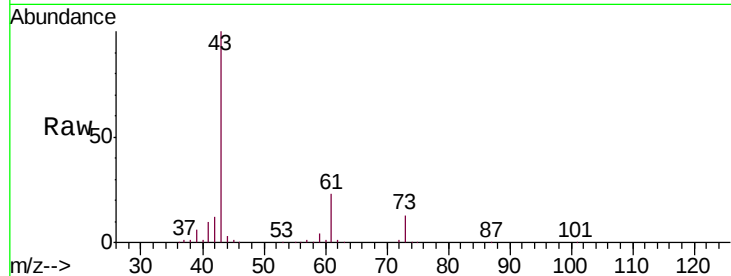




#45
 1,2-Dichloropropane
 Concen: 0.225 ug/l
 RT: 9.26 min Scan# 2327
 Delta R.T. 0.14 min
 Lab File: VN057751.D
 Acq: 7 Sep 2019 14:22

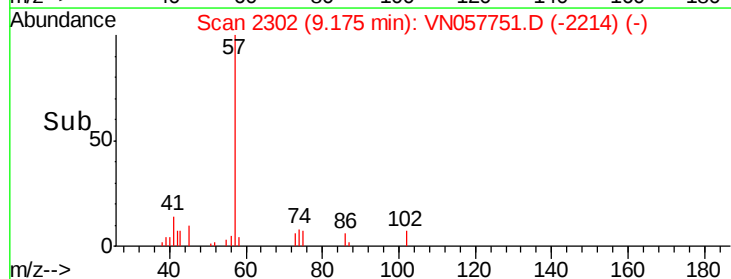
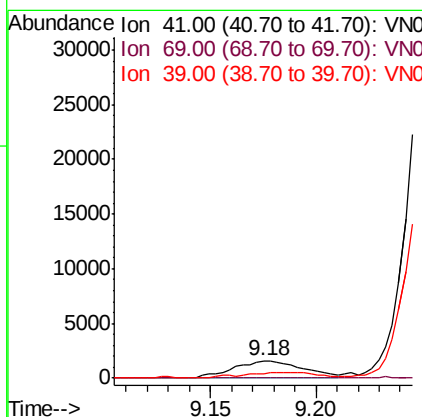
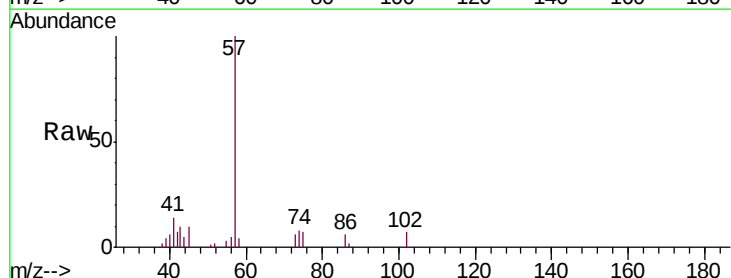
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-C1-(0)

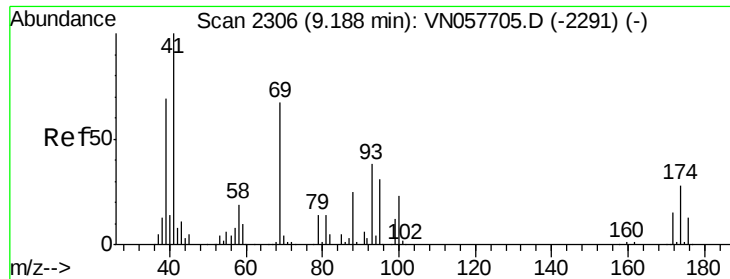
Tgt Ion: 63 Resp: 792
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.5 36.7#



#48
 Methyl methacrylate
 Concen: 0.819 ug/l
 RT: 9.18 min Scan# 2302
 Delta R.T. -0.02 min
 Lab File: VN057751.D
 Acq: 7 Sep 2019 14:22

Tgt Ion: 41 Resp: 3574
 Ion Ratio Lower Upper
 41 100
 69 0.0 51.2 76.8#
 39 0.0 57.3 85.9#





#49

1,4-Dioxane

Concen: 0.591 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.08 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

Instrument :

MSVOA_N

ClientSampleId :

T12-C1-(0)

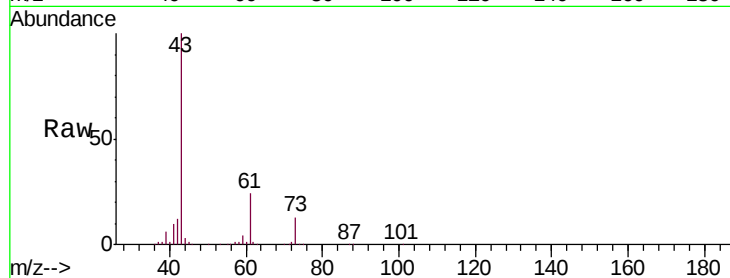
Tgt Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 3377226.7 35.4 53.2#

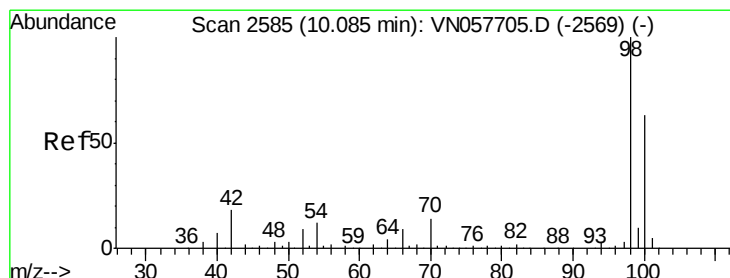
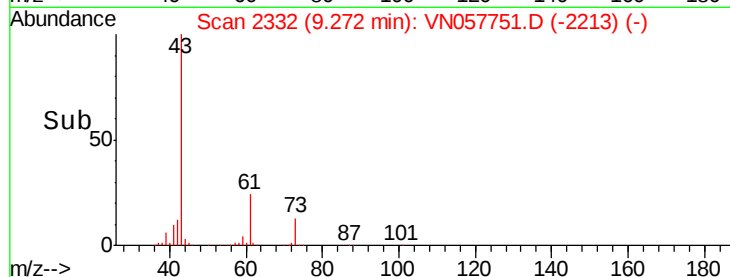
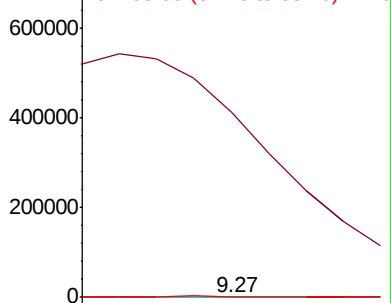
58 14243.3 61.5 92.3#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 51.414 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057751.D

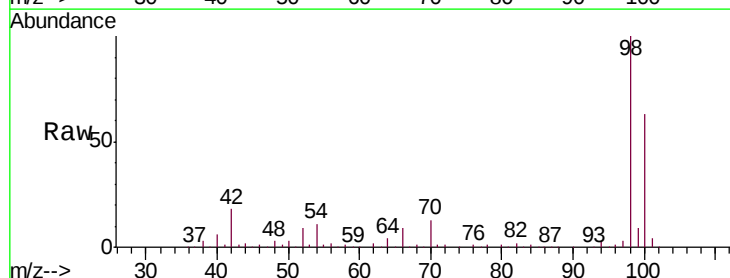
Acq: 7 Sep 2019 14:22

Tgt Ion: 98 Resp: 579749

Ion Ratio Lower Upper

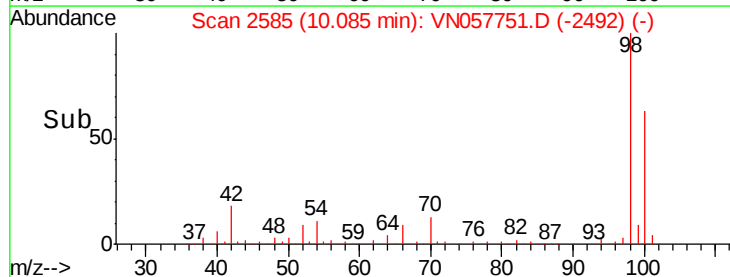
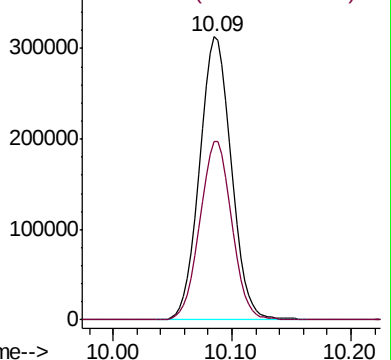
98 100

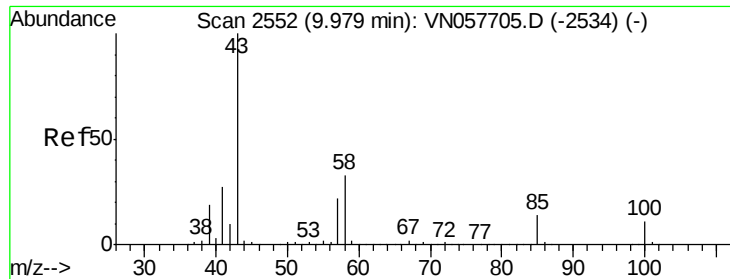
100 63.4 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

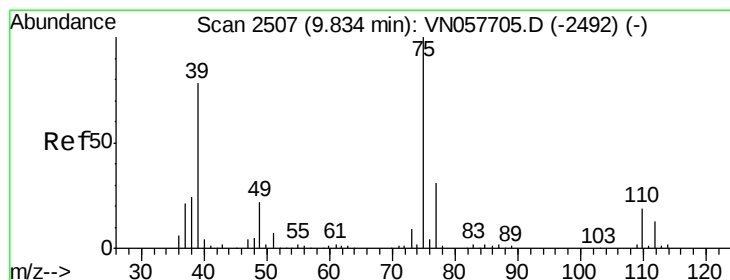
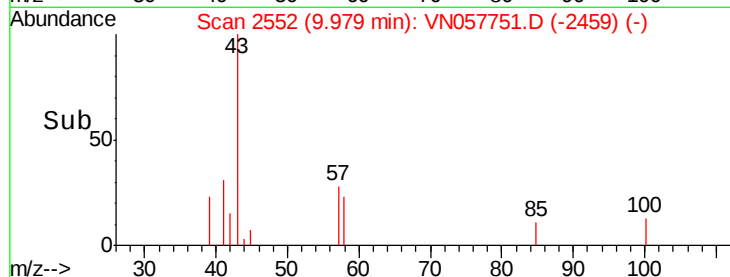
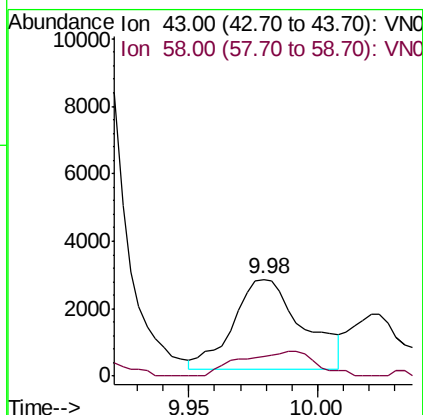
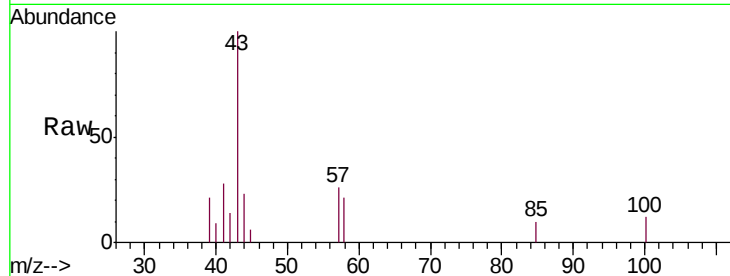




#51
 4-Methyl-2-Pentanone
 Concen: 1.064 ug/l
 RT: 9.98 min Scan# 2552
 Delta R.T. 0.00 min
 Lab File: VN057751.D
 Acq: 7 Sep 2019 14:22

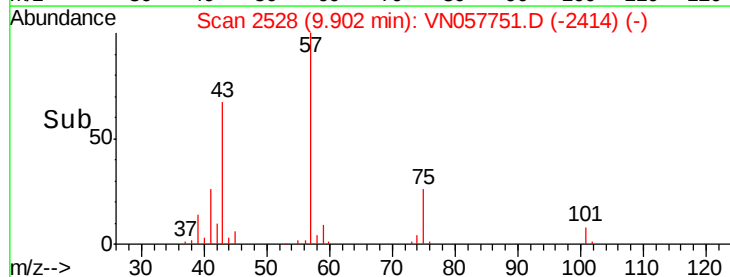
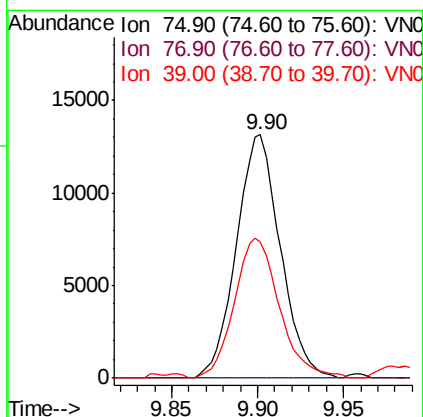
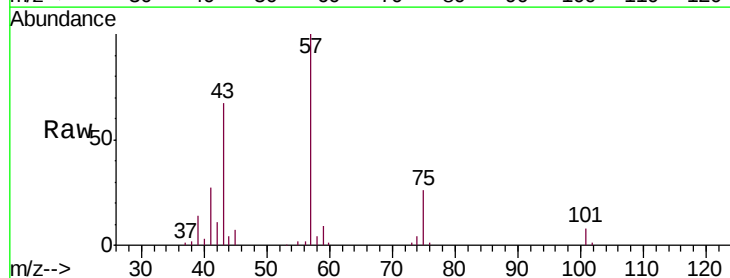
Instrument :
 MSVOA_N
 ClientSampleId :
 T12-C1-(0)

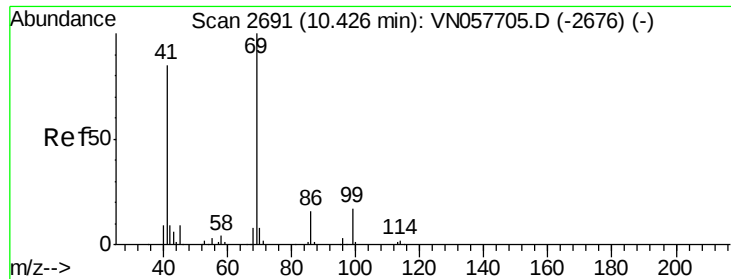
Tgt Ion: 43 Resp: 5014
 Ion Ratio Lower Upper
 43 100
 58 30.0 25.8 38.8



#54
 cis-1,3-Dichloropropene
 Concen: 4.496 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057751.D
 Acq: 7 Sep 2019 14:22

Tgt Ion: 75 Resp: 23397
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.1 37.7#
 39 55.8 62.4 93.6#





#56

Ethyl methacrylate

Concen: 0.242 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

Instrument :

MSVOA_N

ClientSampleId :

T12-C1-(0)

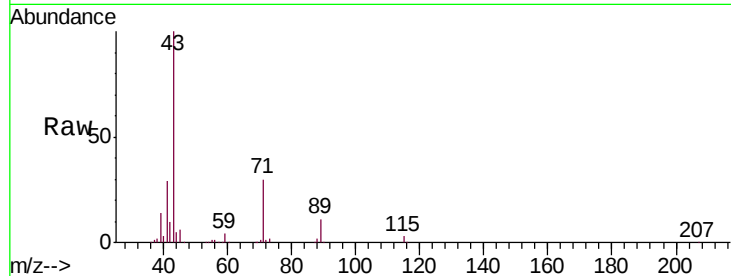
Tgt Ion: 69 Resp: 1188

Ion Ratio Lower Upper

69 100

41 6312.5 69.0 103.4#

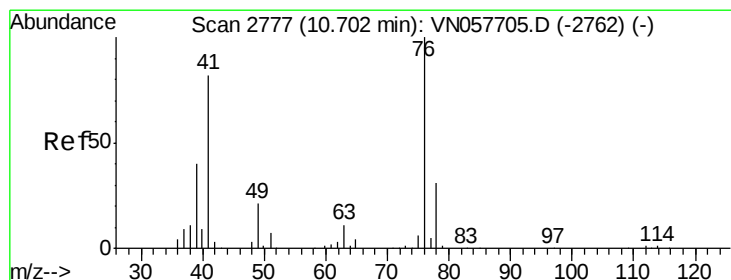
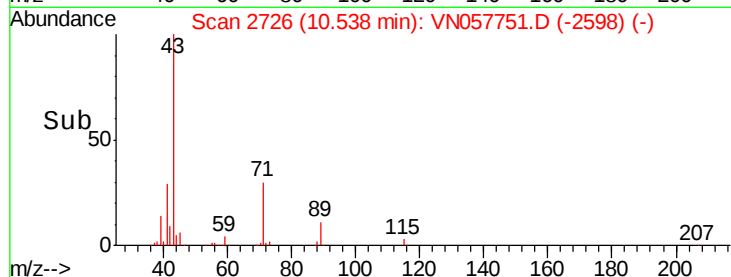
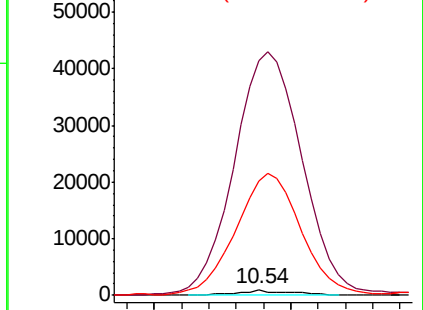
39 3021.9 49.2 73.8#



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: 0.718 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN057751.D

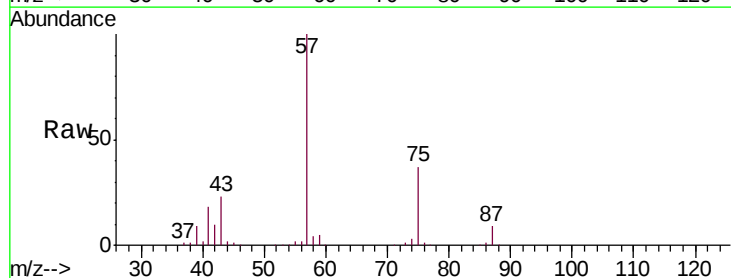
Acq: 7 Sep 2019 14:22

Tgt Ion: 76 Resp: 3963

Ion Ratio Lower Upper

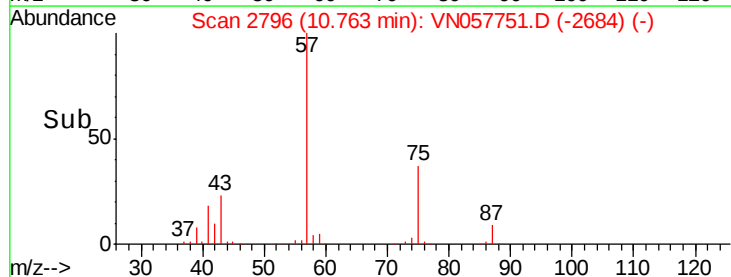
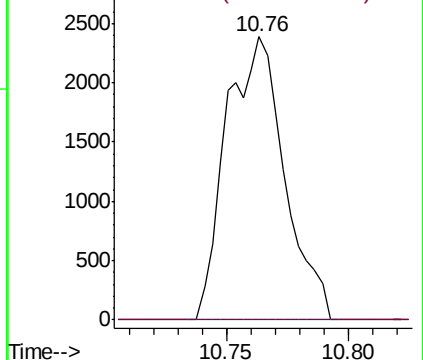
76 100

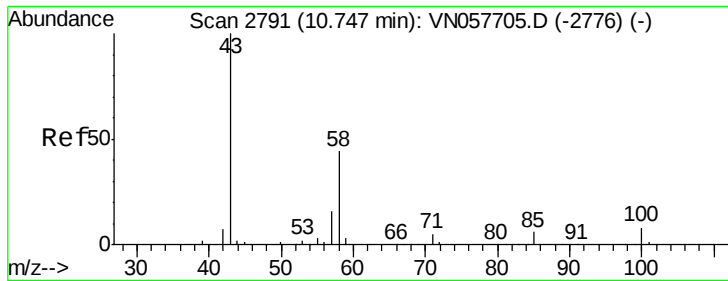
78 0.0 25.5 38.3#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

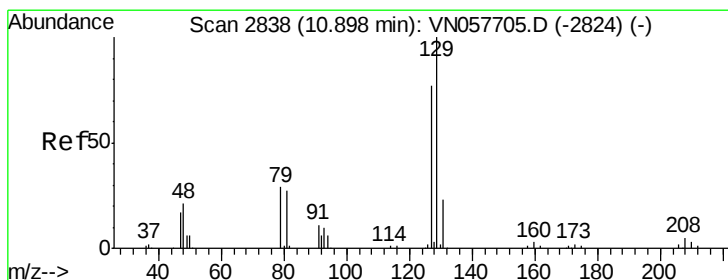
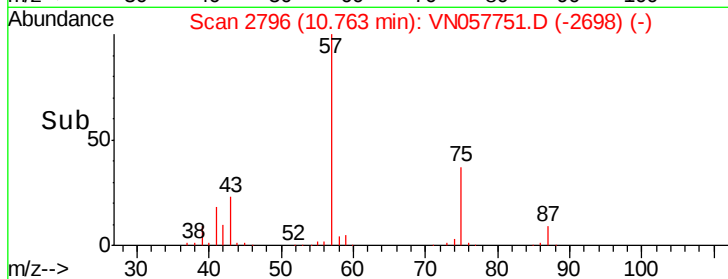
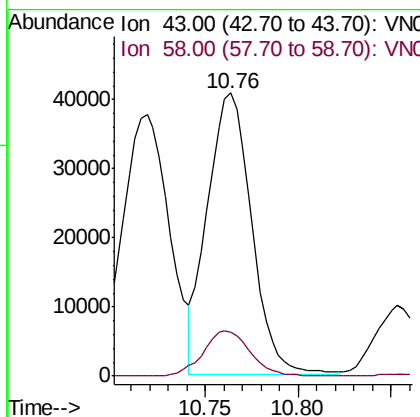
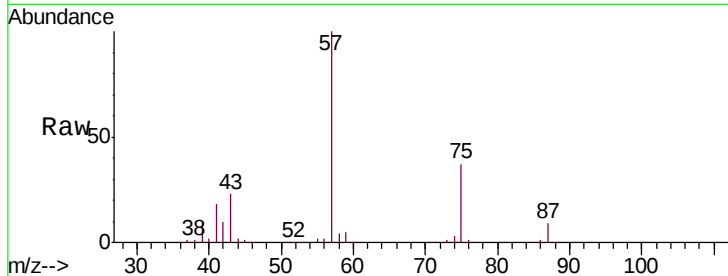




#59
2-Hexanone
Concen: 20.284 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.02 min
Lab File: VN057751.D
Acq: 7 Sep 2019 14:22

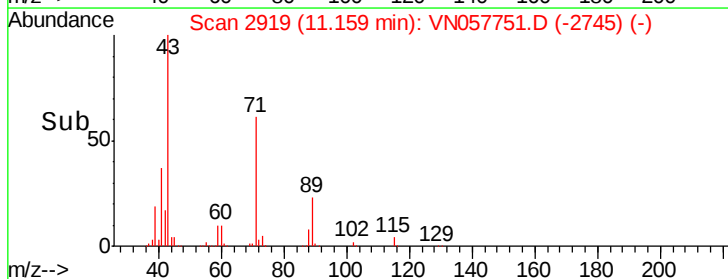
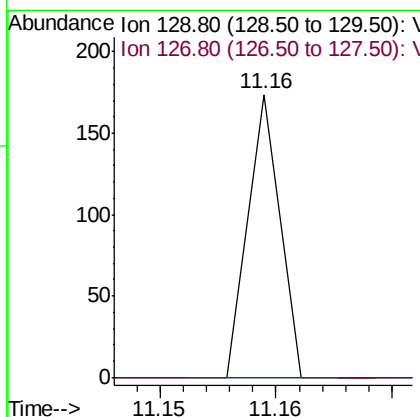
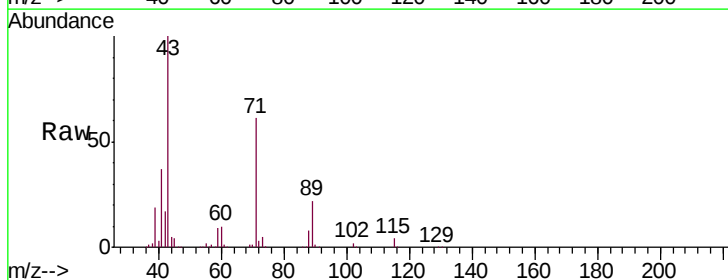
Instrument :
MSVOA_N
ClientSampleId :
T12-C1-(0)

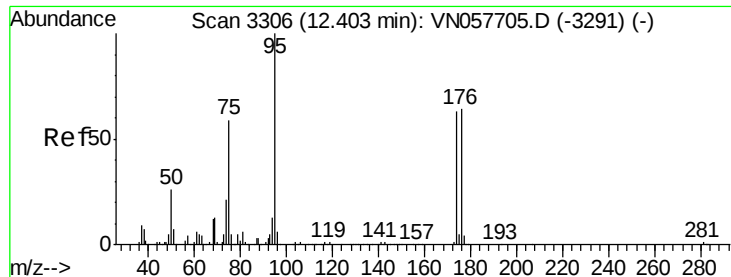
Tgt Ion: 43 Resp: 67392
Ion Ratio Lower Upper
43 100
58 17.0 22.1 66.5#



#60
Dibromochloromethane
Concen: 1.863 ug/l
RT: 11.16 min Scan# 2919
Delta R.T. 0.26 min
Lab File: VN057751.D
Acq: 7 Sep 2019 14:22

Tgt Ion: 129 Resp: 34
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#





#62

4-Bromofluorobenzene

Concen: 45.702 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

Instrument :

MSVOA_N

ClientSampleId :

T12-C1-(0)

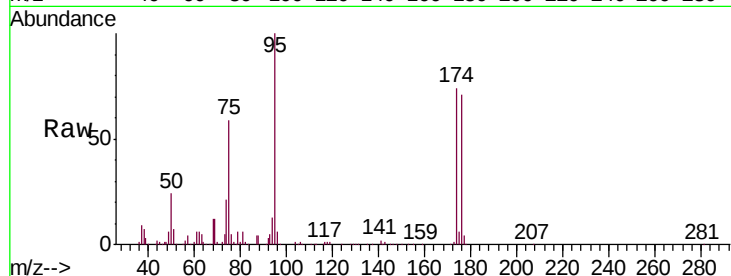
Tgt Ion: 95 Resp: 214049

Ion Ratio Lower Upper

95 100

174 73.5 0.0 128.0

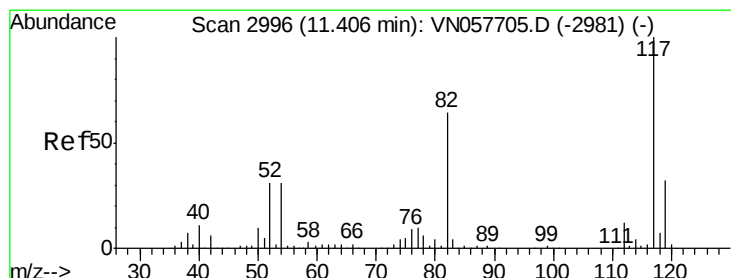
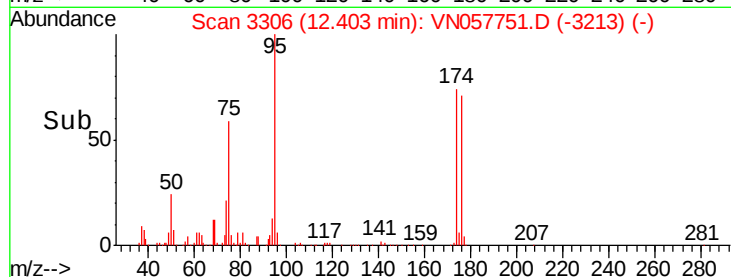
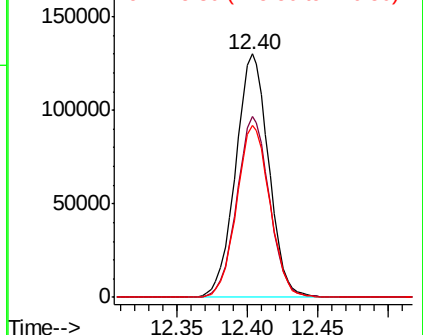
176 70.9 0.0 128.0



Abundance Ion 94.90 (94.60 to 95.60): VN057751.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN057751.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN057751.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

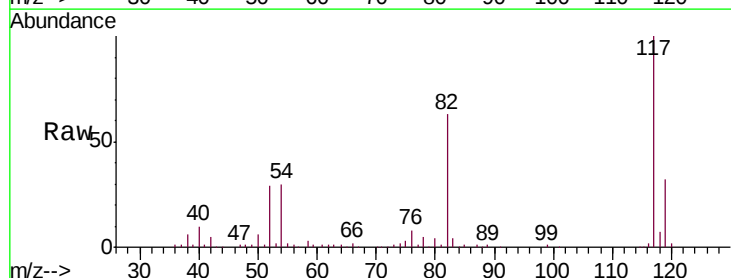
Tgt Ion: 117 Resp: 310842

Ion Ratio Lower Upper

117 100

82 62.7 51.4 77.0

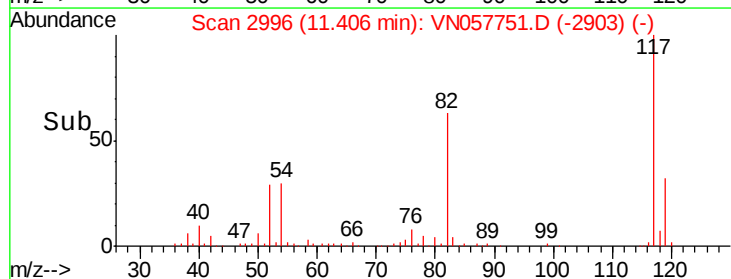
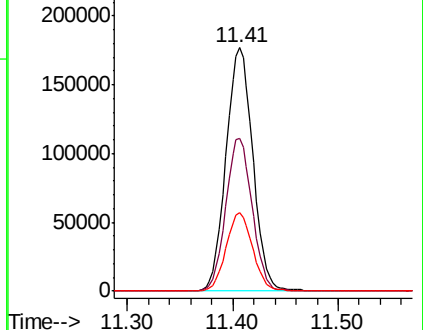
119 32.0 25.4 38.2

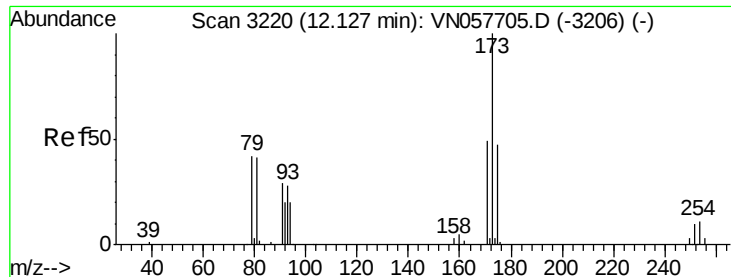


Abundance Ion 116.90 (116.60 to 117.60): VN057751.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN057751.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN057751.D (-2903) (-)





#71

Bromoform

Concen: 3.521 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

Instrument :

MSVOA_N

ClientSampleId :

T12-C1-(0)

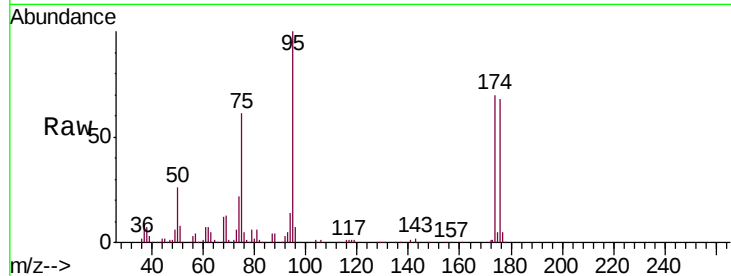
Tgt Ion:173 Resp: 630

Ion Ratio Lower Upper

173 100

175 0.0 24.6 73.8#

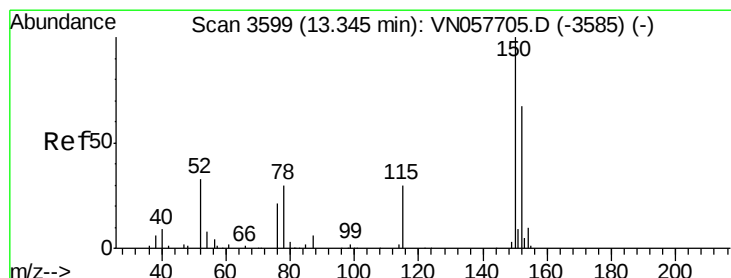
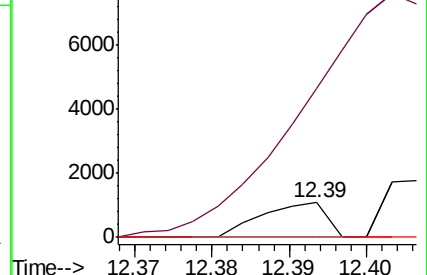
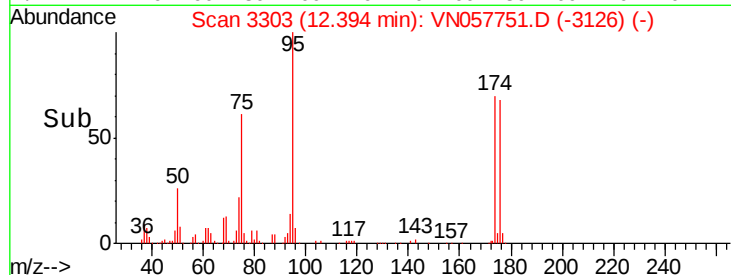
254 0.0 0.0 0.0



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: VN057751.D

Acq: 7 Sep 2019 14:22

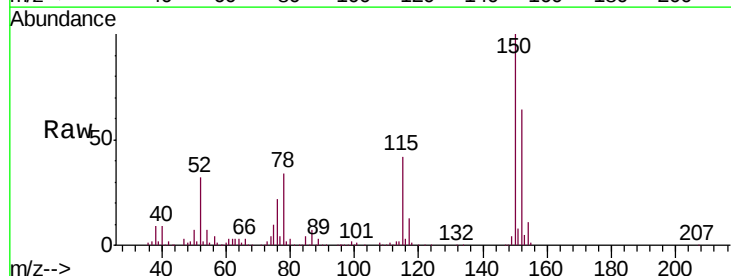
Tgt Ion:152 Resp: 161113

Ion Ratio Lower Upper

152 100

115 64.5 33.8 101.3

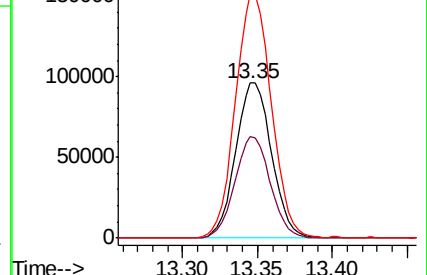
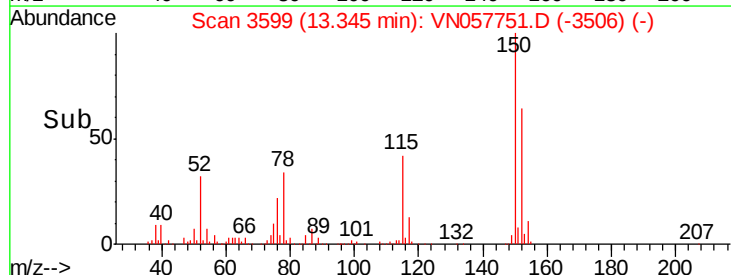
150 156.7 0.0 345.4

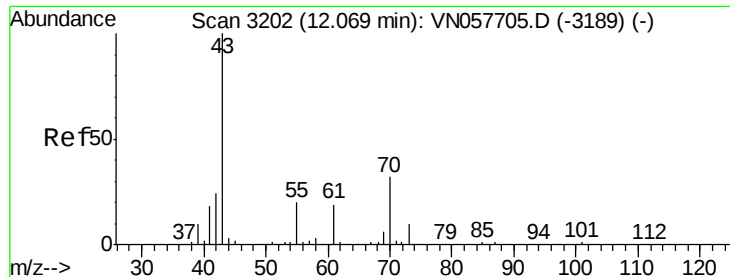


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amy1 acetate

Concen: 0.277 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

Instrument :

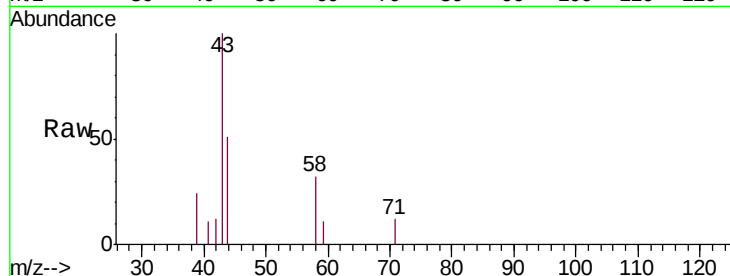
MSVOA_N

ClientSampleId :

T12-C1-(0)

Tgt Ion: 43 Resp: 1971

Ion	Ratio	Lower	Upper
43	100		
70	0.0	26.1	39.1#
55	5.5	16.3	24.5#
61	0.0	15.0	22.4#

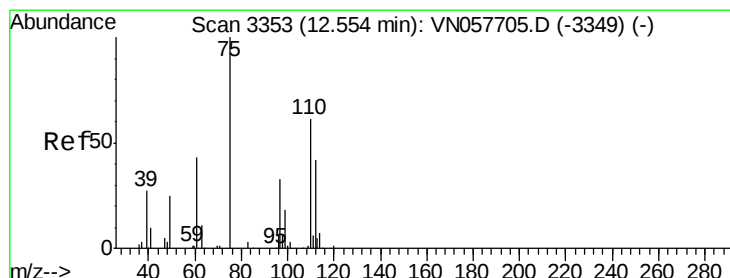
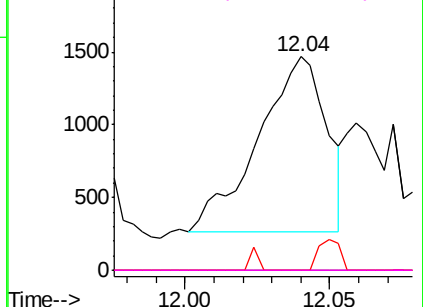
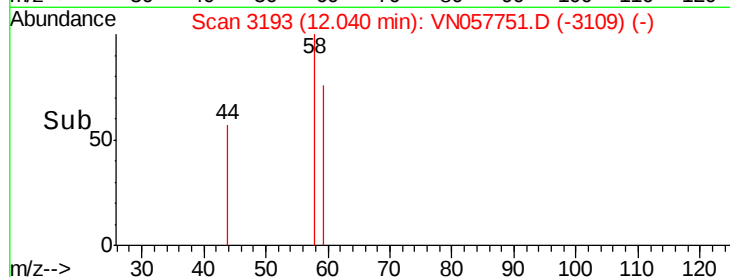


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 33.955 ug/l

RT: 12.40 min Scan# 3306

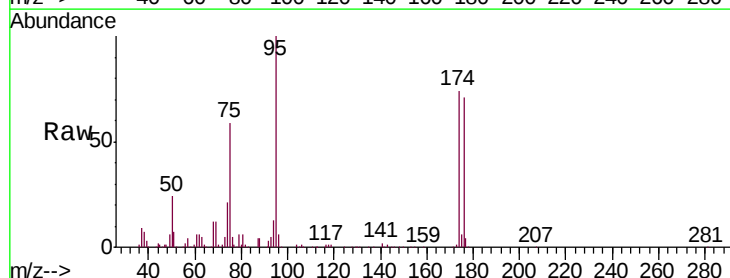
Delta R.T. -0.15 min

Lab File: VN057751.D

Acq: 7 Sep 2019 14:22

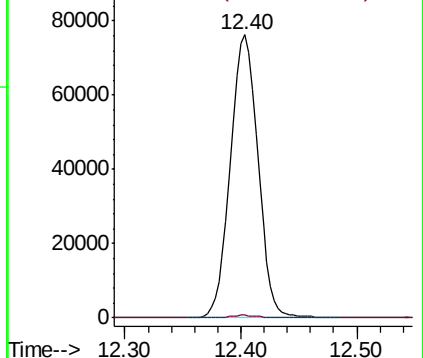
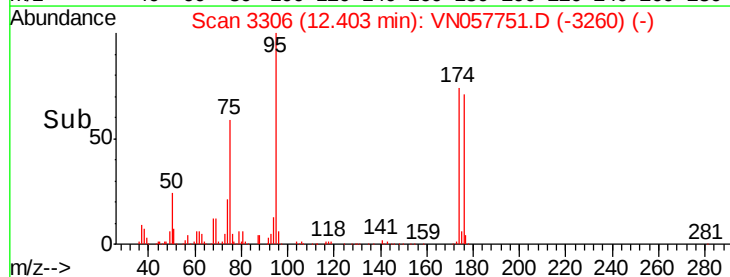
Tgt Ion: 75 Resp: 125625

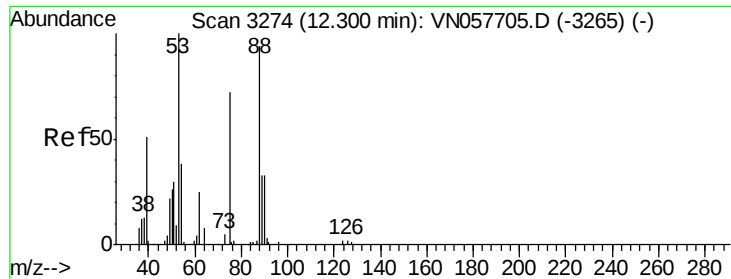
Ion	Ratio	Lower	Upper
75	100		
77	0.9	0.0	0.0#



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: 105.600 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057751.D
 Acq: 7 Sep 2019 14:22

Instrument :
 MSVOA_N
 ClientSampleId :
 T12-C1-(0)

Tgt Ion: 75 Resp: 125625
 Ion Ratio Lower Upper
 75 100
 53 0.0 107.0 160.6#
 89 0.0 36.5 54.7#

