

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058044.D
 Acq On : 14 Sep 2019 1:37
 Operator : JC/SP
 Sample : K4694-34
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 T2-3-(0)

Quant Time: Sep 14 03:42:37 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	313685	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	530445	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	486426	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	249272	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	328893	51.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.54%	
35) Dibromofluoromethane	7.58	113	231199	47.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.44%	
50) Toluene-d8	10.09	98	875438	46.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.12%	
62) 4-Bromofluorobenzene	12.41	95	306101	42.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.52%	

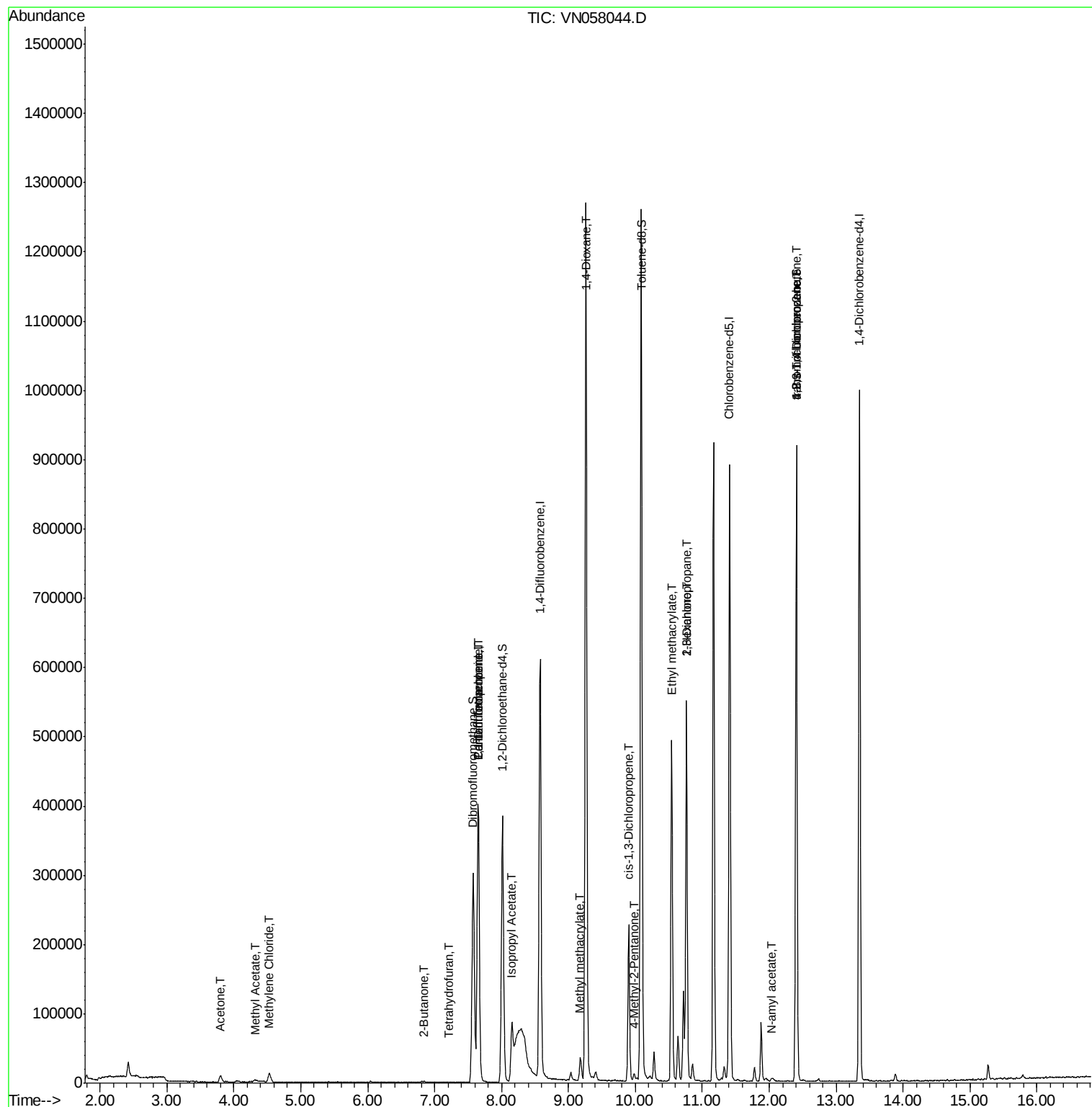
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.56	94	243	Below Cal	#	2
16) Acetone	3.80	43	15805	7.588	ug/l	95
18) Methyl Acetate	4.32	43	5263	0.948	ug/l #	58
20) Methylene Chloride	4.54	84	8782	1.009	ug/l	96
25) 2-Butanone	6.83	43	1275	0.423	ug/l #	49
29) Tetrahydrofuran	7.21	42	523	0.282	ug/l #	34
31) Cyclohexane	7.65	56	8135	Below Cal	#	36
36) 1,1-Dichloropropene	7.65	75	27938	4.541	ug/l #	49
38) Carbon Tetrachloride	7.65	117	32625	5.809	ug/l #	15
43) Isopropyl Acetate	8.16	43	115540	10.810	ug/l #	82
48) Methyl methacrylate	9.18	41	4261	0.786	ug/l #	13
49) 1,4-Dioxane	9.27	88	220	2.399	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	7462	1.180	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	36607	4.842	ug/l #	66
56) Ethyl methacrylate	10.54	69	1780	0.239	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	5552	0.652	ug/l #	43
59) 2-Hexanone	10.76	43	83009	17.509	ug/l #	54
74) N-amyl acetate	12.04	43	4730	0.562	ug/l #	47
76) 1,2,3-Trichloropropane	12.40	75	166062	29.449	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	166062	103.632	ug/l #	6
95) Naphthalene	15.14	128	751	Below Cal	#	69

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
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# 1829

Delta R.T. 0.00 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

Instrument :

MSVOA_N

ClientSampleId :

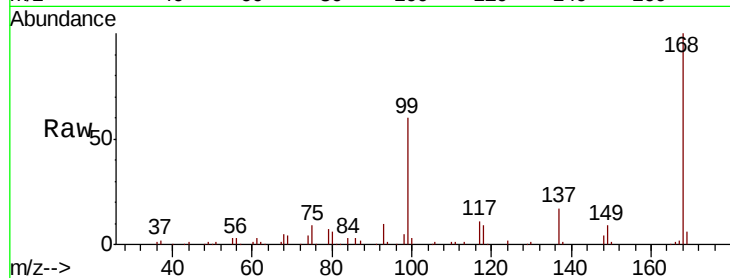
T2-3-(0)

Tgt Ion: 168 Resp: 313685

Ion Ratio Lower Upper

168 100

99 59.8 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

7.65

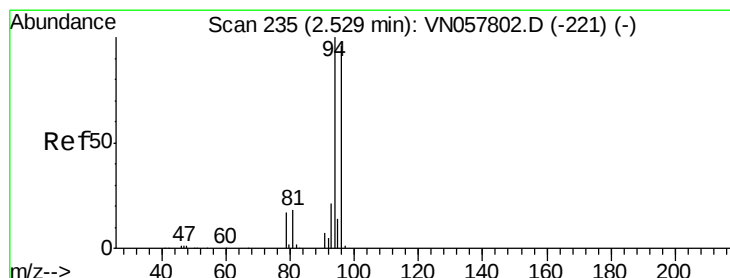
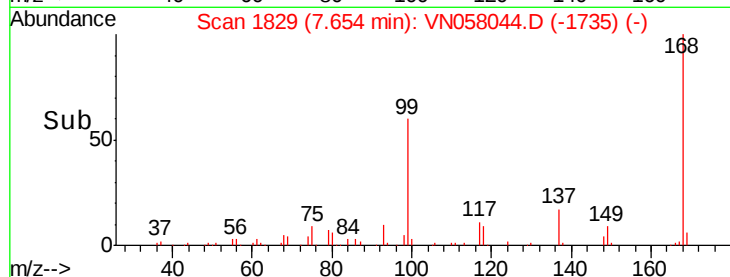
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 245

Delta R.T. 0.03 min

Lab File: VN058044.D

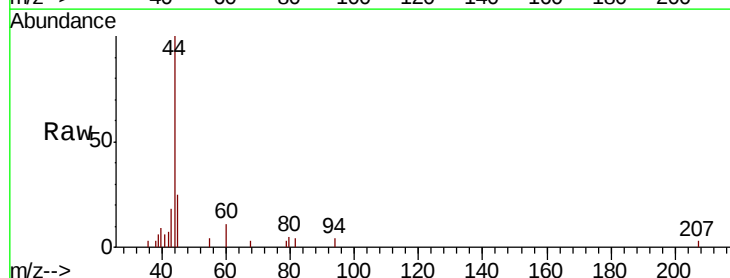
Acq: 14 Sep 2019 1:37

Tgt Ion: 94 Resp: 243

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

2.56

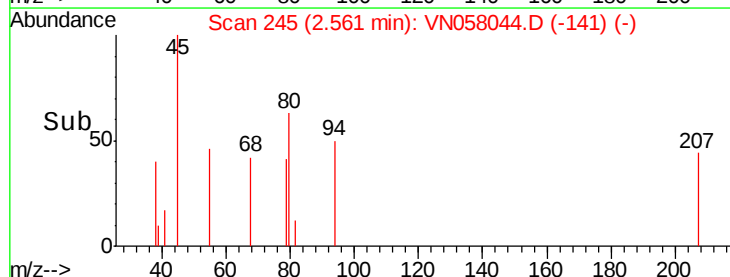
300

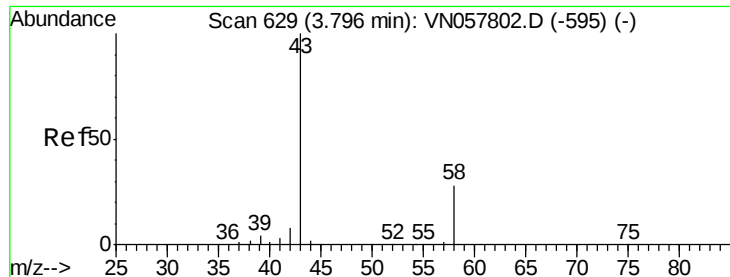
200

100

0

Time-->





#16

Acetone

Concen: 7.588 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.00 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

Instrument :

MSVOA_N

ClientSampled :

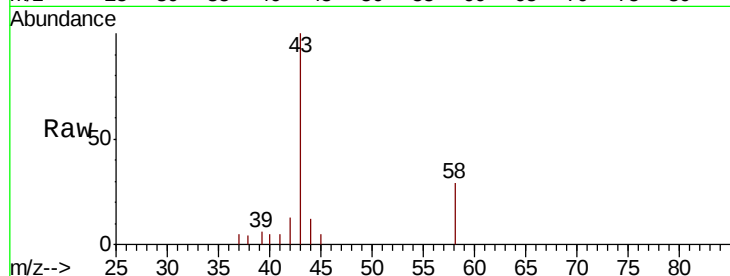
T2-3-(0)

Tgt Ion: 43 Resp: 15805

Ion Ratio Lower Upper

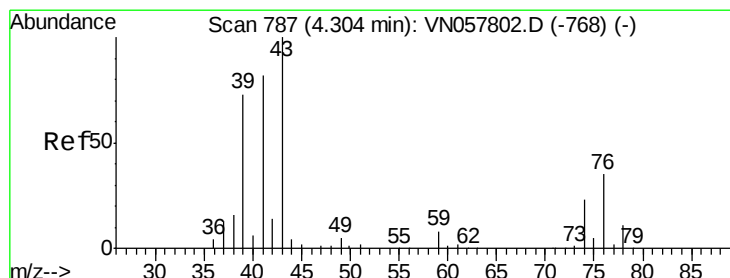
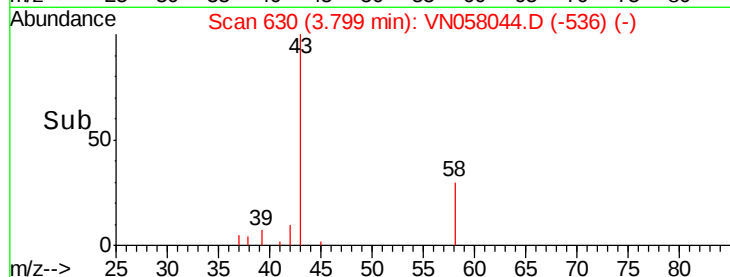
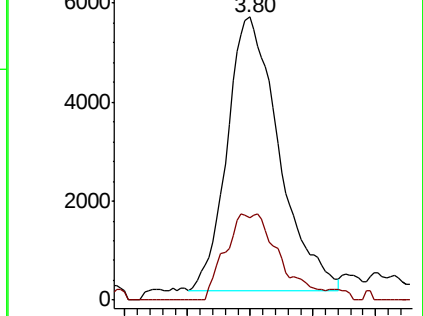
43 100

58 30.3 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.948 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN058044.D

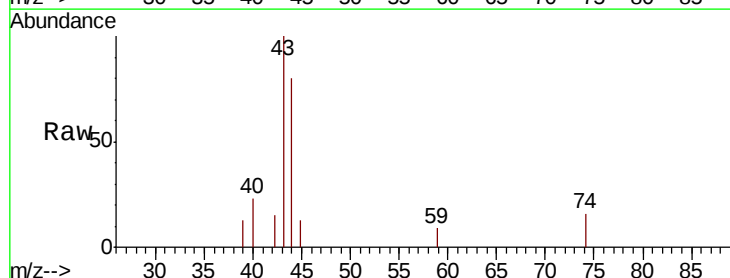
Acq: 14 Sep 2019 1:37

Tgt Ion: 43 Resp: 5263

Ion Ratio Lower Upper

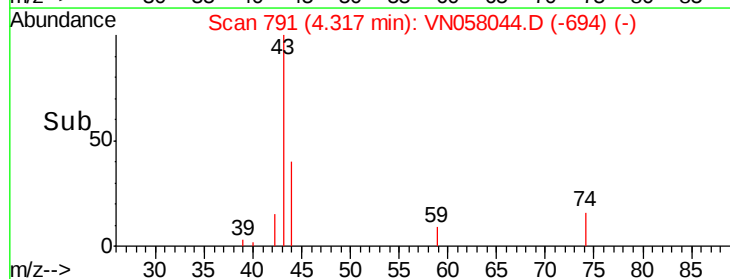
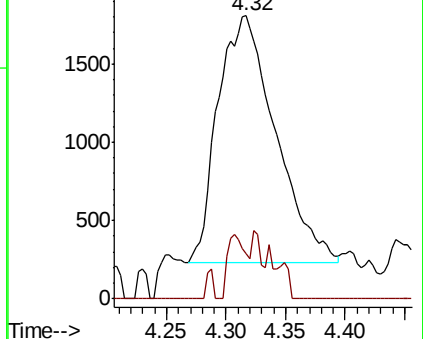
43 100

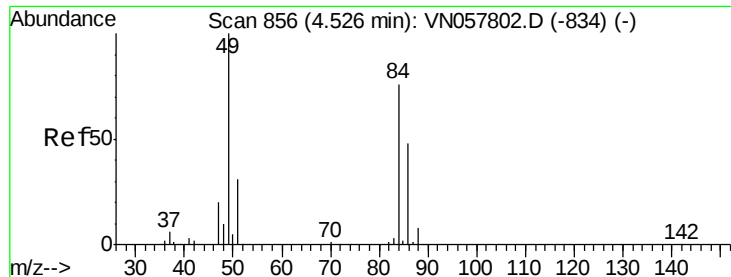
74 2.1 17.9 26.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

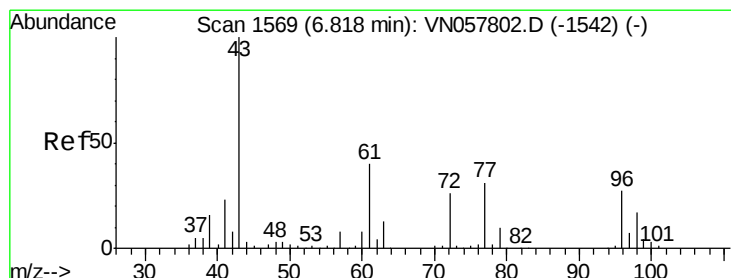
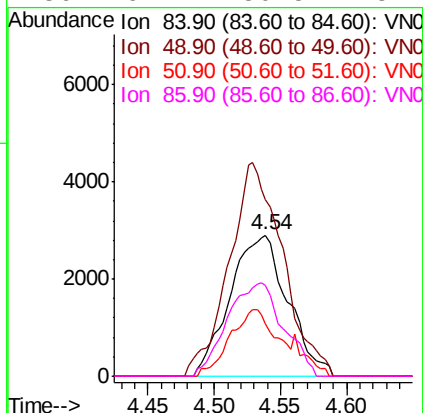
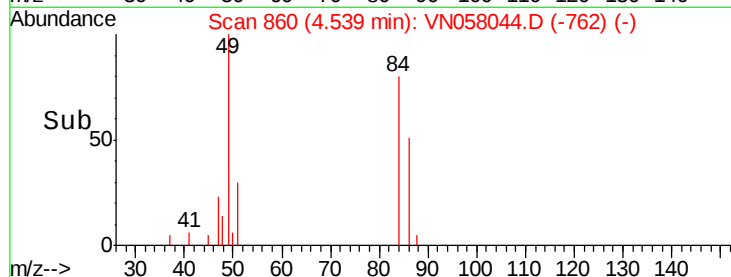
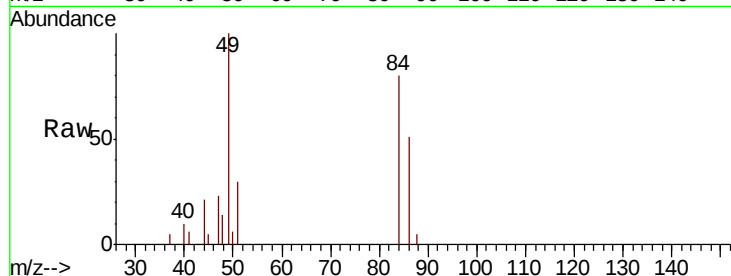




#20
Methylene Chloride
Concen: 1.009 ug/l
RT: 4.54 min Scan# 860
Delta R.T. 0.01 min
Lab File: VN058044.D
Acq: 14 Sep 2019 1:37

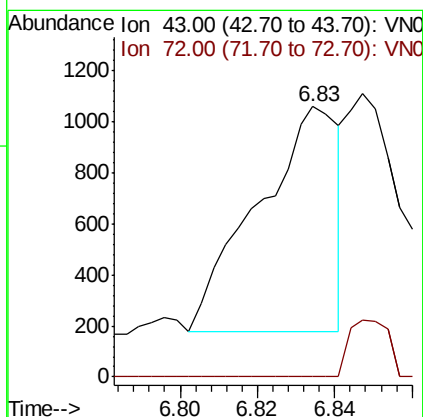
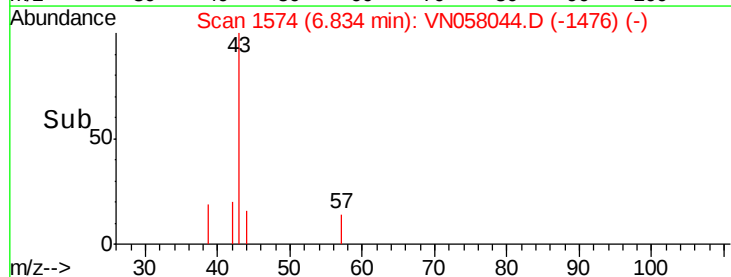
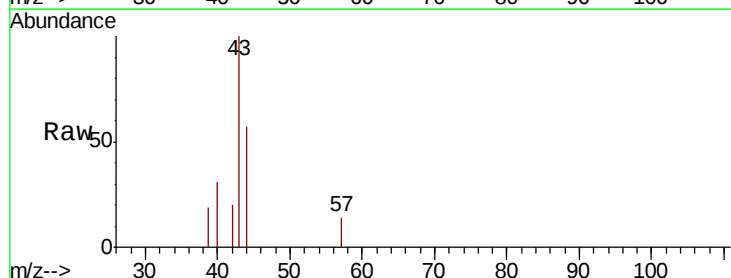
Instrument :
MSVOA_N
ClientSampled :
T2-3-(0)

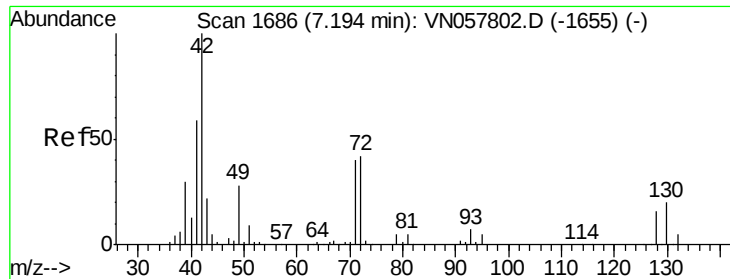
Tgt Ion: 84 Resp: 8782
Ion Ratio Lower Upper
84 100
49 125.0 104.8 157.2
51 37.0 33.0 49.4
86 64.2 50.5 75.7



#25
2-Butanone
Concen: 0.423 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. 0.02 min
Lab File: VN058044.D
Acq: 14 Sep 2019 1:37

Tgt Ion: 43 Resp: 1275
Ion Ratio Lower Upper
43 100
72 0.0 20.6 30.8#





#29

Tetrahydrofuran

Concen: 0.282 ug/l

RT: 7.21 min Scan# 1690

Delta R.T. 0.01 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

Instrument :

MSVOA_N

ClientSampled :

T2-3-(0)

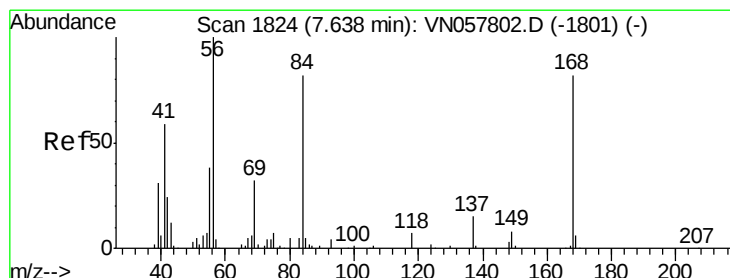
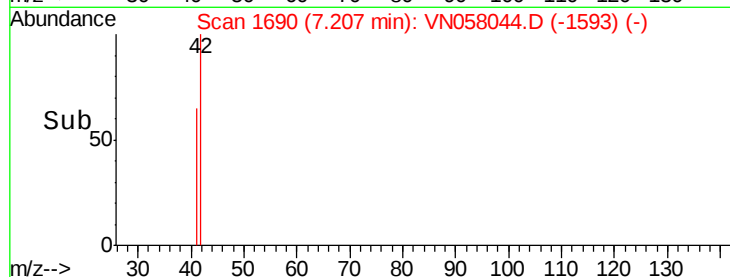
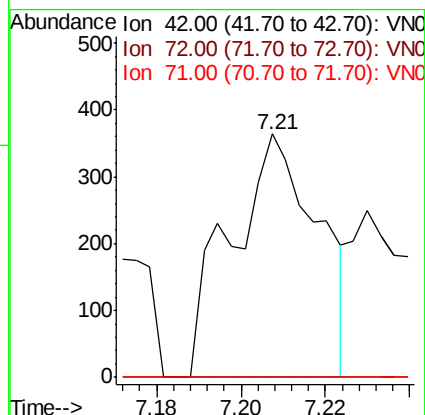
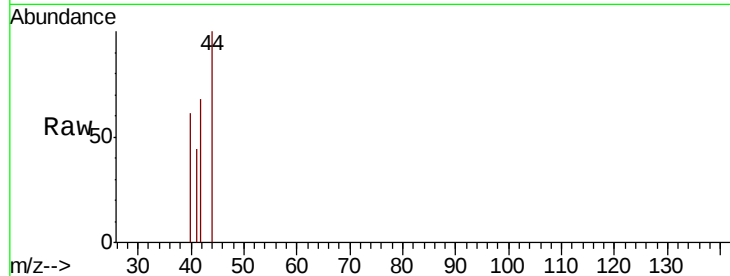
Tgt Ion: 42 Resp: 523

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# 1829

Delta R.T. 0.02 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

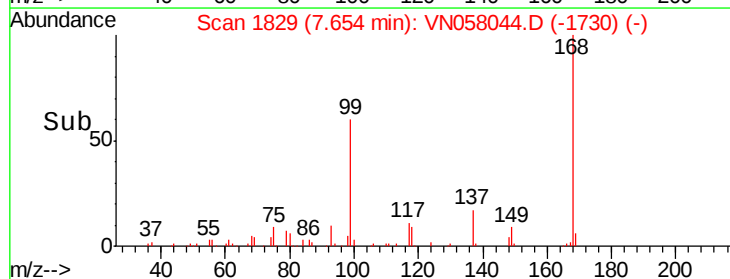
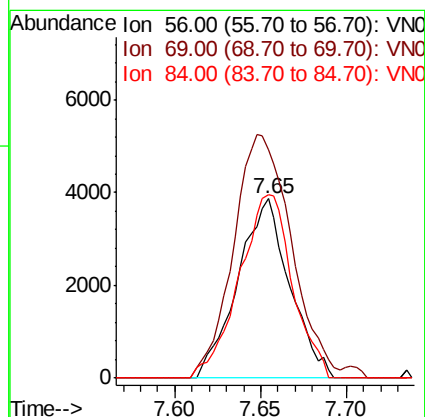
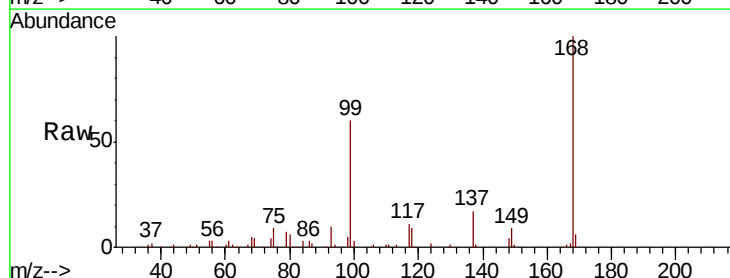
Tgt Ion: 56 Resp: 8135

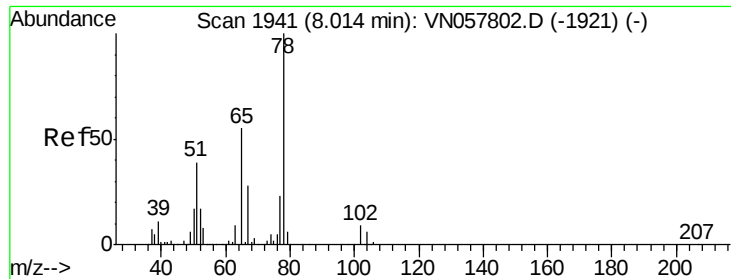
Ion Ratio Lower Upper

56 100

69 127.1 25.9 38.9#

84 102.3 65.6 98.4#

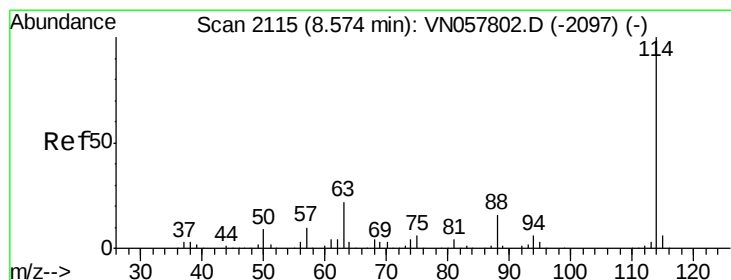
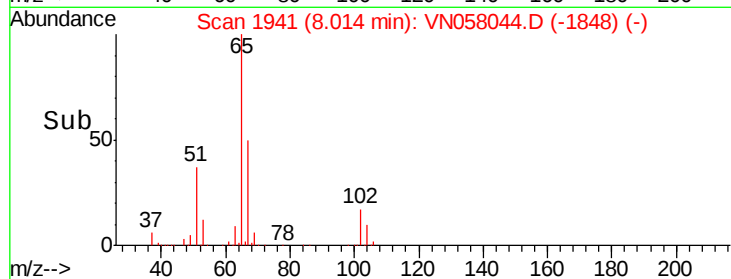
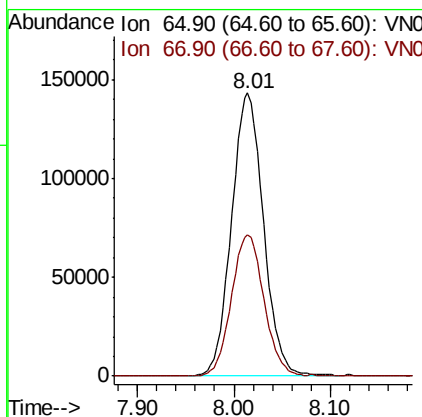
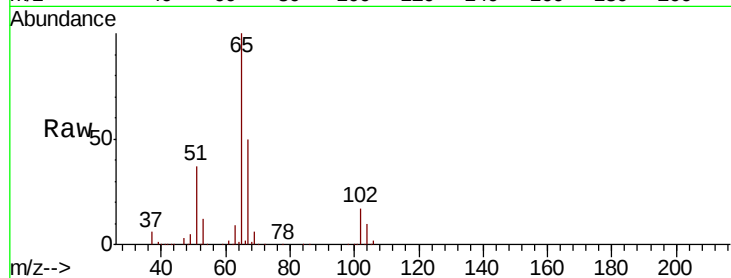




#33
 1,2-Dichloroethane-d4
 Concen: 51.766 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058044.D
 Acq: 14 Sep 2019 1:37

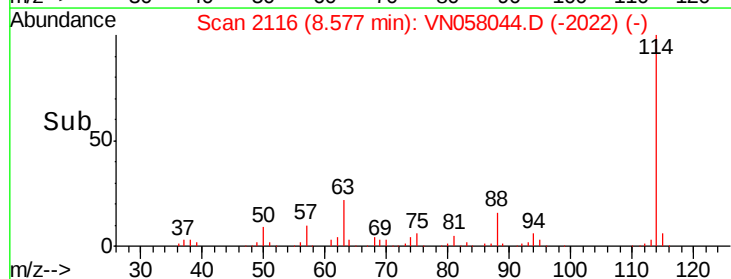
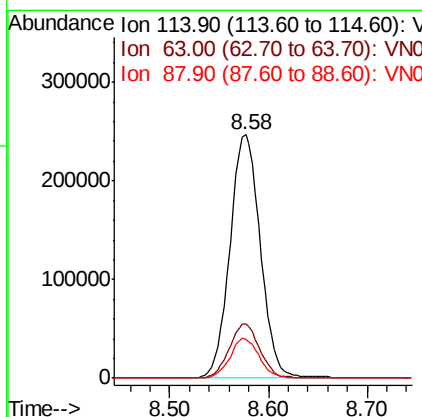
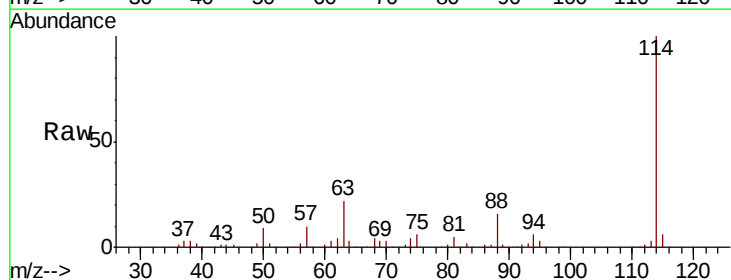
Instrument :
 MSVOA_N
 ClientSampleId :
 T2-3-(0)

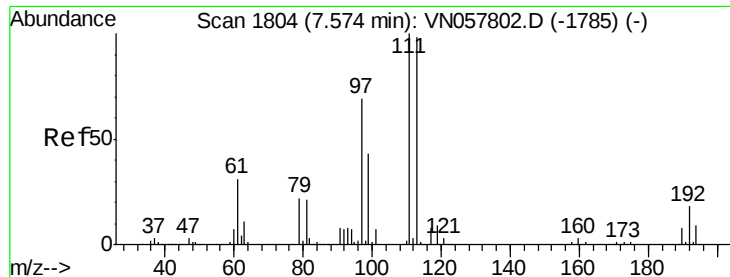
Tgt Ion: 65 Resp: 328893
 Ion Ratio Lower Upper
 65 100
 67 50.7 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058044.D
 Acq: 14 Sep 2019 1:37

Tgt Ion: 114 Resp: 530445
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 44.0
 88 16.1 0.0 31.4

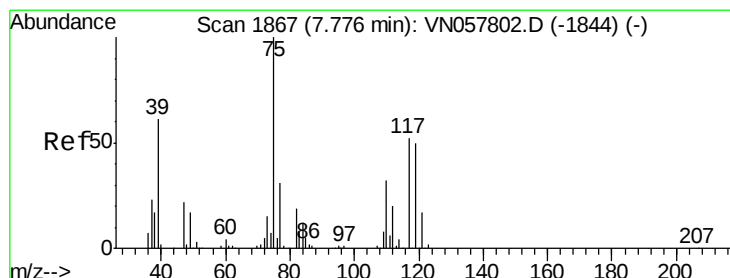
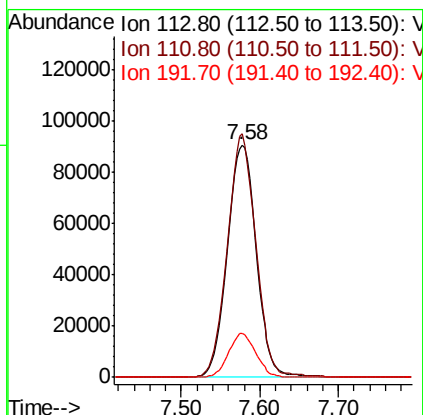
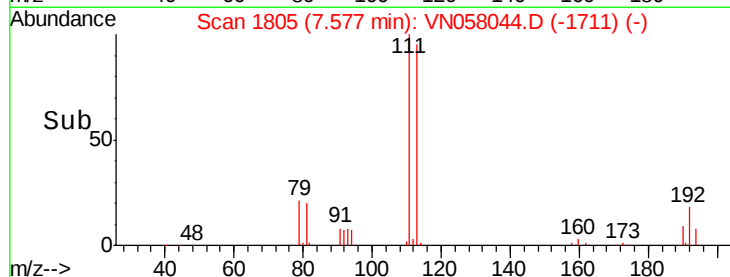
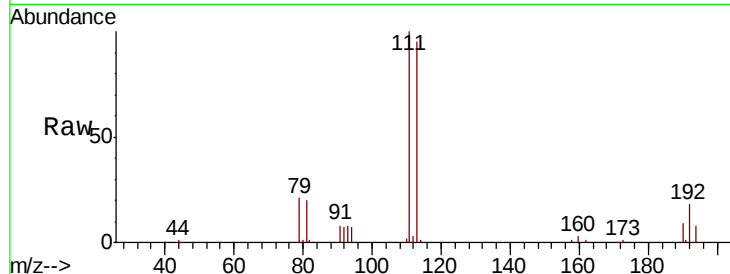




#35
 Dibromofluoromethane
 Concen: 47.224 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058044.D
 Acq: 14 Sep 2019 1:37

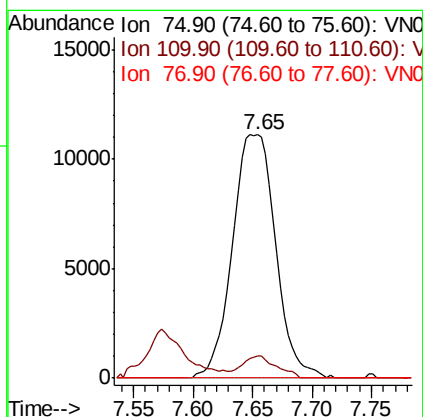
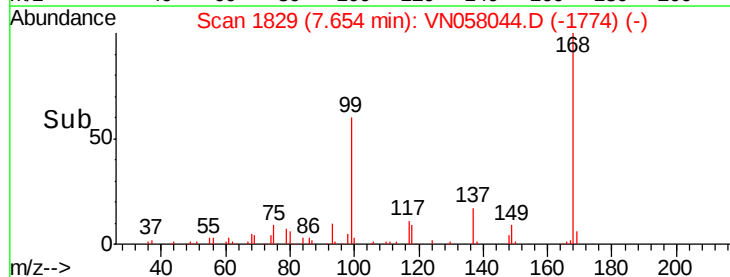
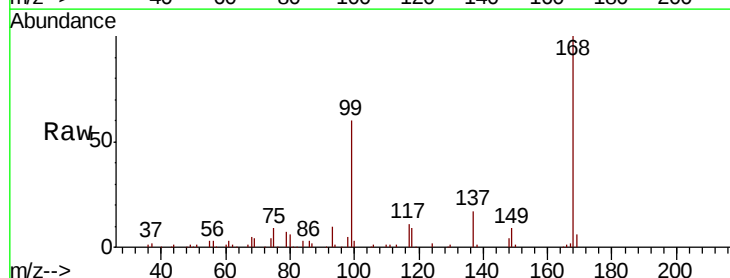
Instrument :
 MSVOA_N
 ClientSampleId :
 T2-3-(0)

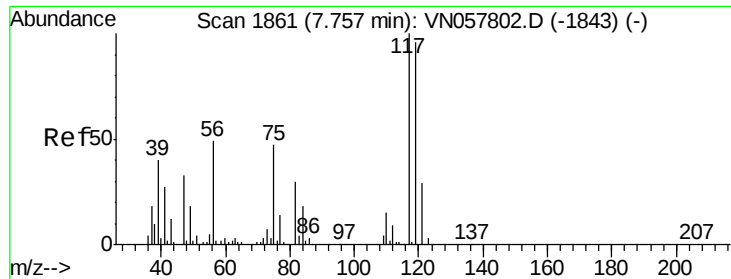
Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.0	81.3	121.9
192	17.9	14.6	22.0



#36
 1,1-Dichloropropene
 Concen: 4.541 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058044.D
 Acq: 14 Sep 2019 1:37

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.2	16.3	48.9#
77	0.0	25.0	37.4#

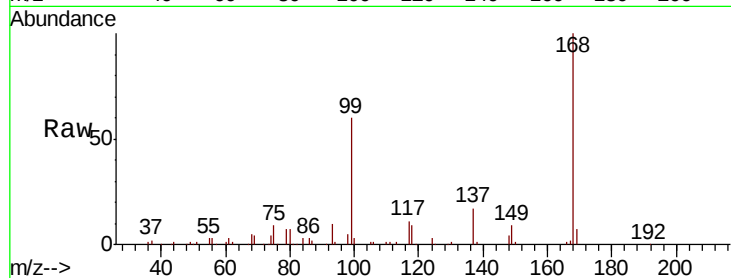




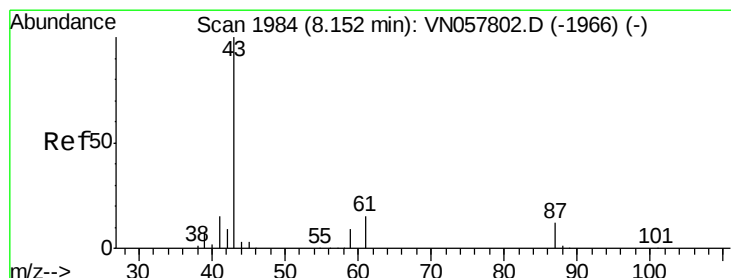
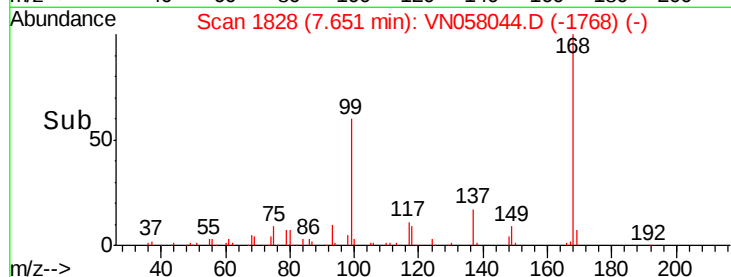
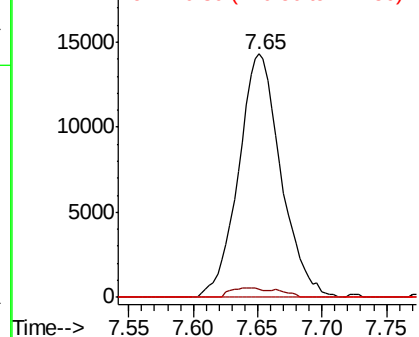
#38
Carbon Tetrachloride
Concen: 5.809 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058044.D
Acq: 14 Sep 2019 1:37

Instrument :
MSVOA_N
ClientSampled :
T2-3-(0)

Tgt Ion: 117 Resp: 32625
Ion Ratio Lower Upper
117 100
119 3.5 76.9 115.3#
121 0.0 23.4 35.2#

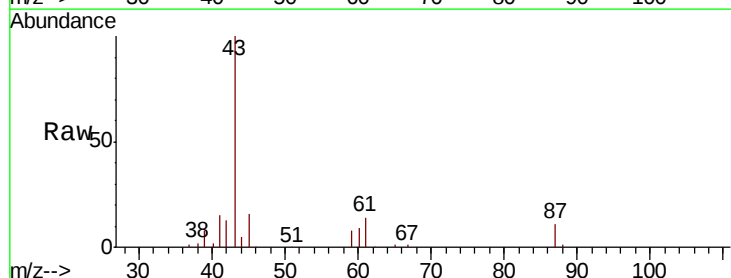


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

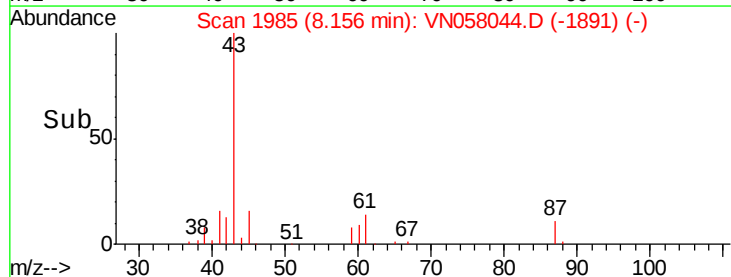
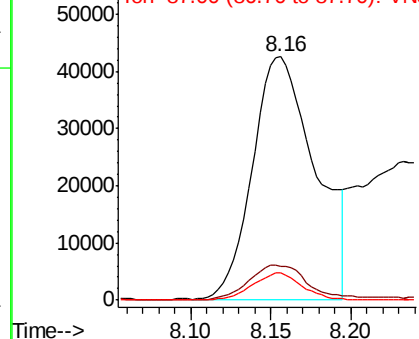


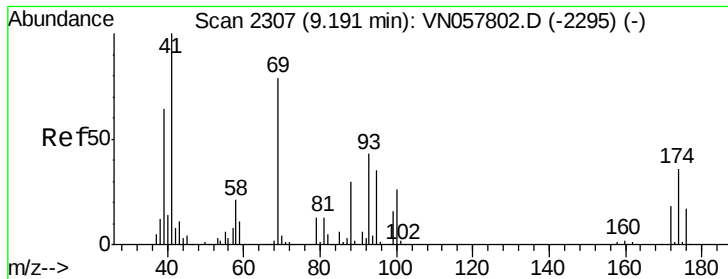
#43
Isopropyl Acetate
Concen: 10.810 ug/l
RT: 8.16 min Scan# 1985
Delta R.T. 0.00 min
Lab File: VN058044.D
Acq: 14 Sep 2019 1:37

Tgt Ion: 43 Resp: 115540
Ion Ratio Lower Upper
43 100
61 13.6 20.1 30.1#
87 8.7 9.5 14.3#



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





#48

Methyl methacrylate

Concen: 0.786 ug/l

RT: 9.18 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

Instrument :

MSVOA_N

ClientSampleId :

T2-3-(0)

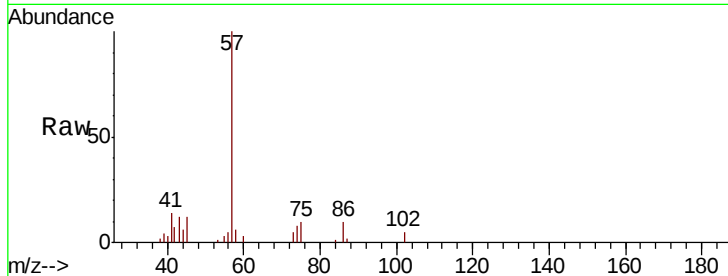
Tgt Ion: 41 Resp: 4261

Ion Ratio Lower Upper

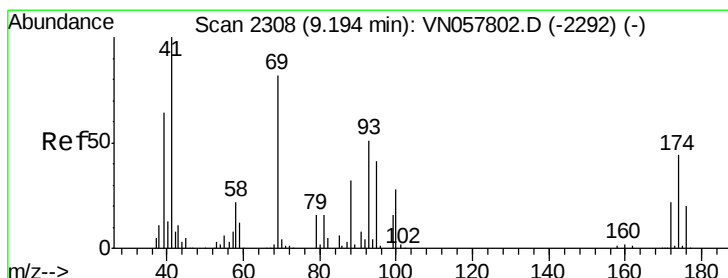
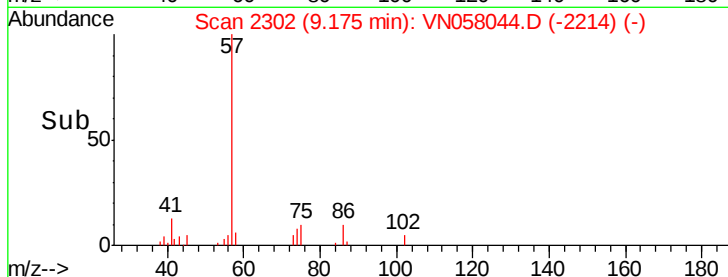
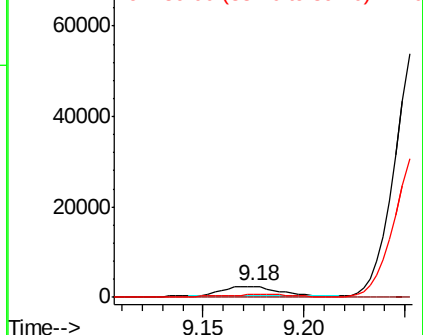
41 100

69 0.0 62.7 94.1#

39 0.0 52.7 79.1#



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



#49

1,4-Dioxane

Concen: 2.399 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

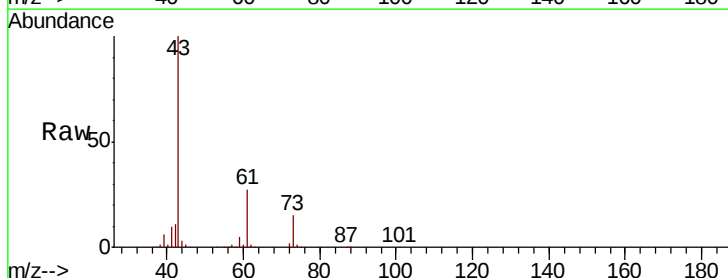
Tgt Ion: 88 Resp: 220

Ion Ratio Lower Upper

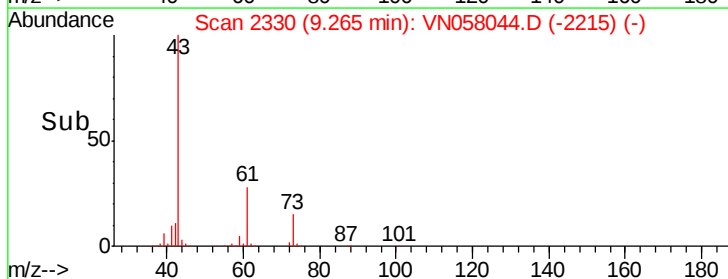
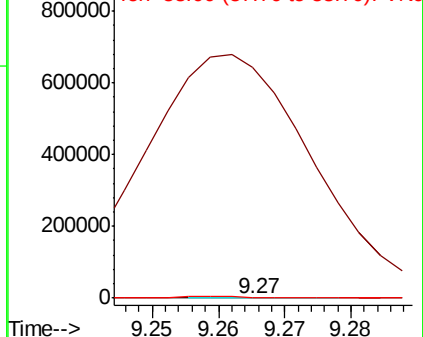
88 100

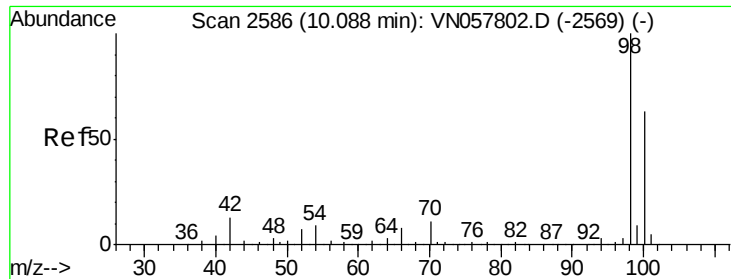
43 572323.6 28.5 42.7#

58 2785.0 55.8 83.6#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 46.056 ug/l

RT: 10.09 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

Instrument :

MSVOA_N

ClientSampled :

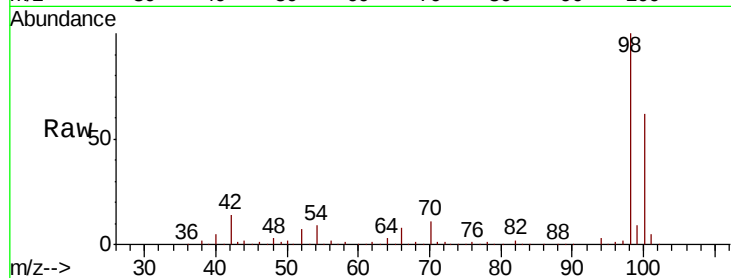
T2-3-(0)

Tgt Ion: 98 Resp: 875438

Ion Ratio Lower Upper

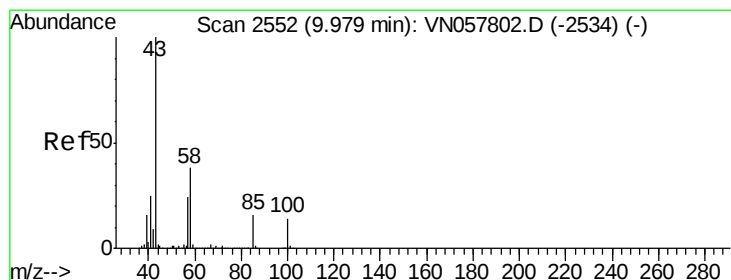
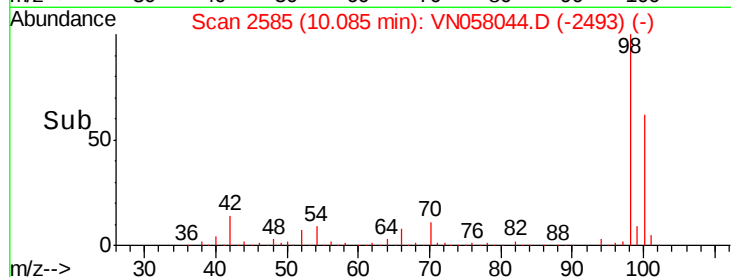
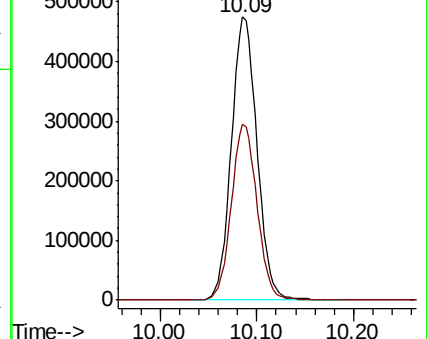
98 100

100 62.2 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 1.180 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.00 min

Lab File: VN058044.D

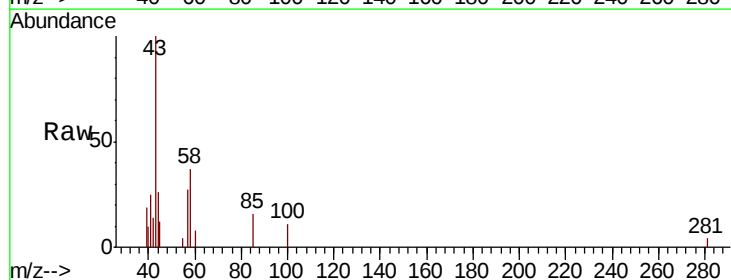
Acq: 14 Sep 2019 1:37

Tgt Ion: 43 Resp: 7462

Ion Ratio Lower Upper

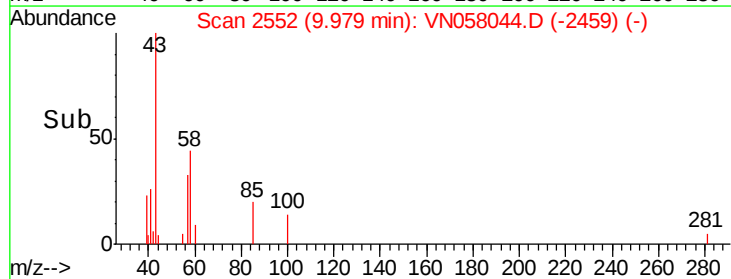
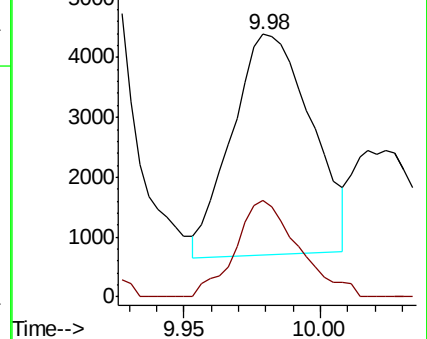
43 100

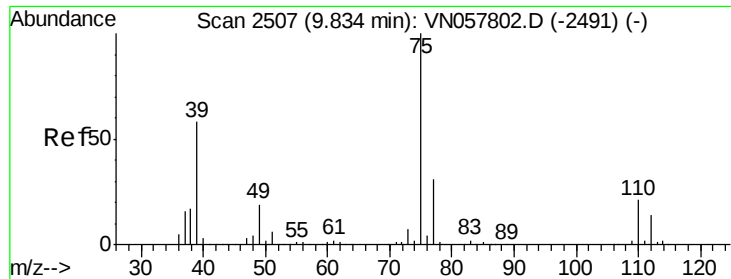
58 34.7 29.8 44.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



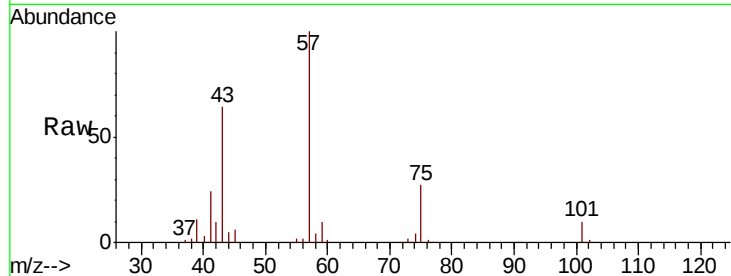


#54

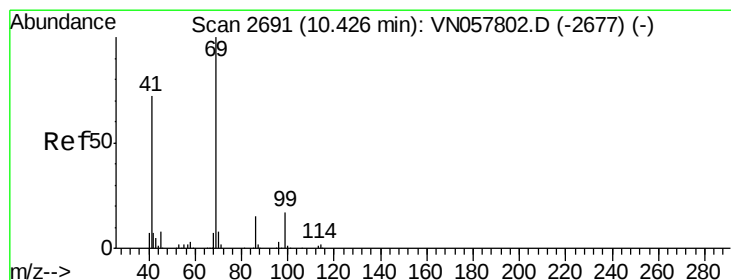
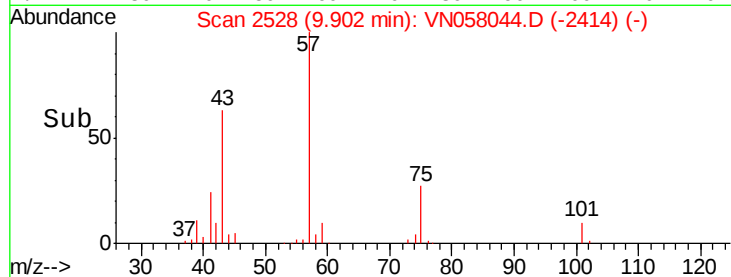
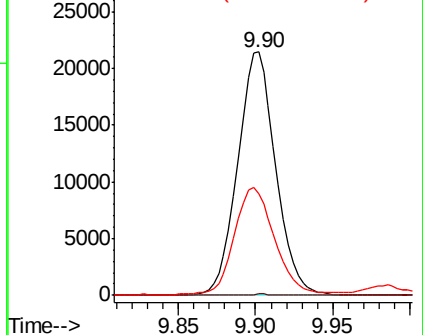
cis-1,3-Dichloropropene
 Concen: 4.842 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN058044.D
 Acq: 14 Sep 2019 1:37

Instrument :
 MSVOA_N
 ClientSampled :
 T2-3-(0)

Tgt Ion: 75 Resp: 36607
 Ion Ratio Lower Upper
 75 100
 77 0.9 24.8 37.2#
 39 41.2 46.2 69.4#



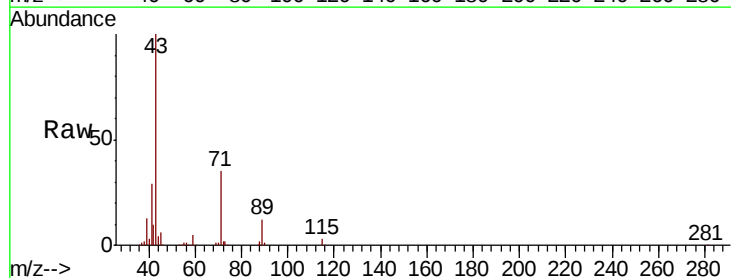
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



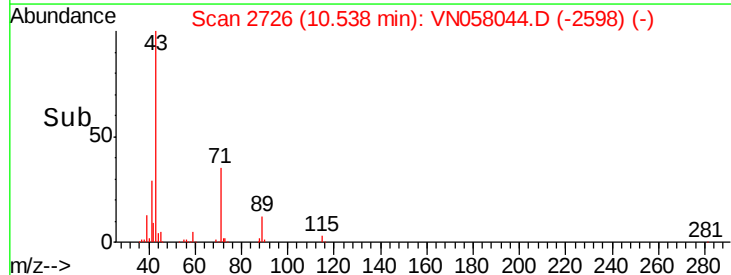
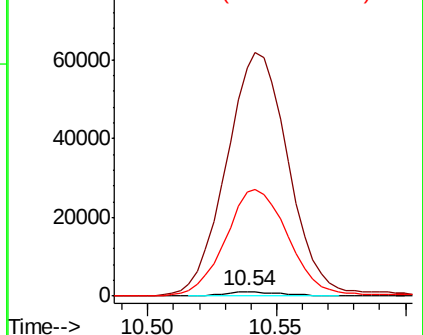
#56

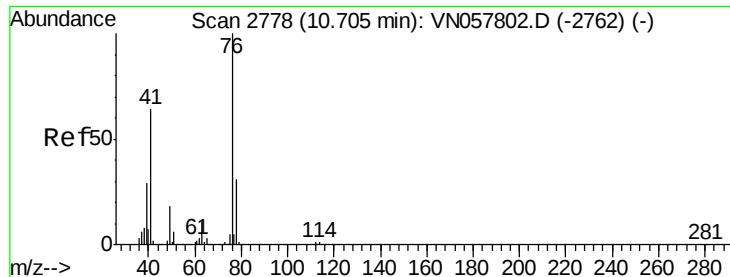
Ethyl methacrylate
 Concen: 0.239 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.11 min
 Lab File: VN058044.D
 Acq: 14 Sep 2019 1:37

Tgt Ion: 69 Resp: 1780
 Ion Ratio Lower Upper
 69 100
 41 5870.1 56.7 85.1#
 39 2608.1 36.3 54.5#



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

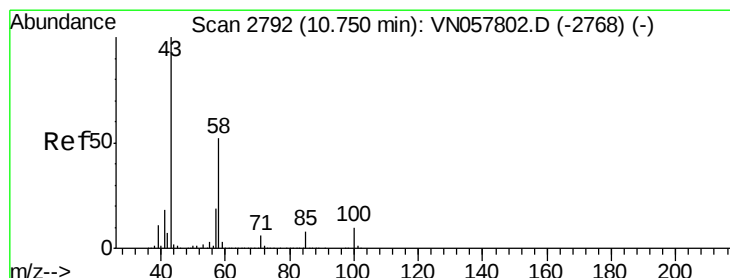
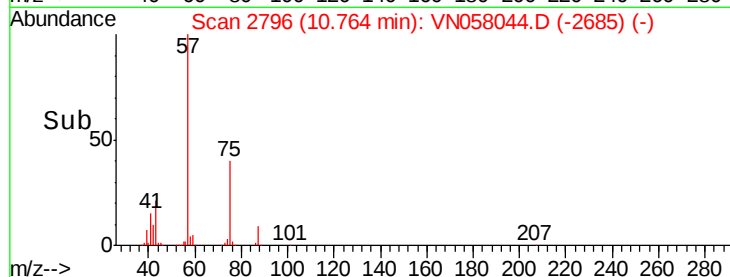
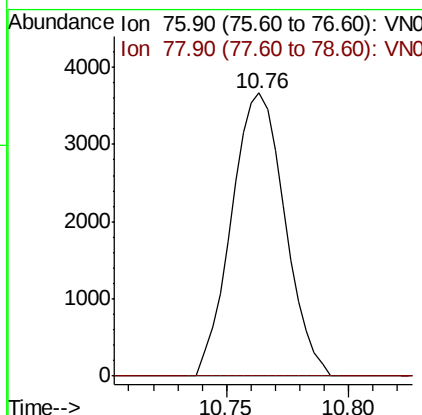
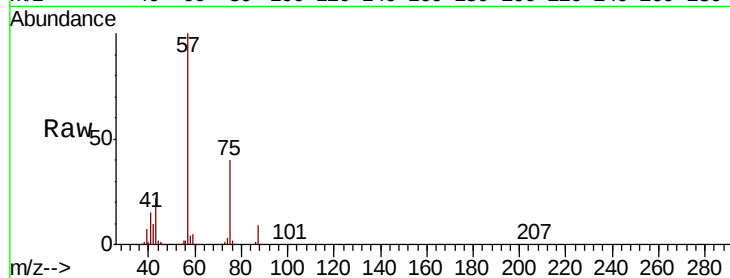




#57
 1,3-Dichloropropane
 Concen: 0.652 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN058044.D
 Acq: 14 Sep 2019 1:37

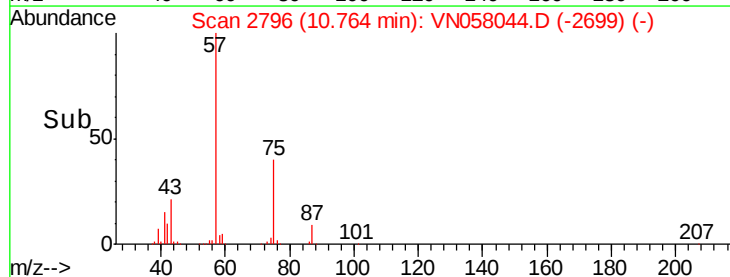
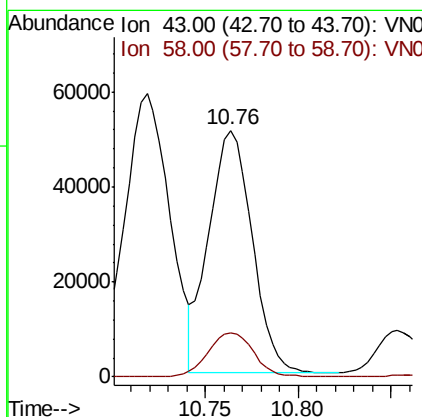
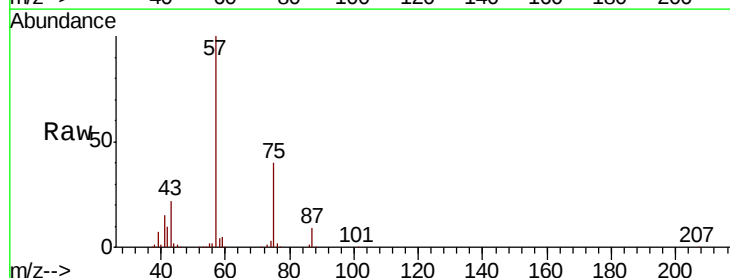
Instrument :
 MSVOA_N
 ClientSampled :
 T2-3-(0)

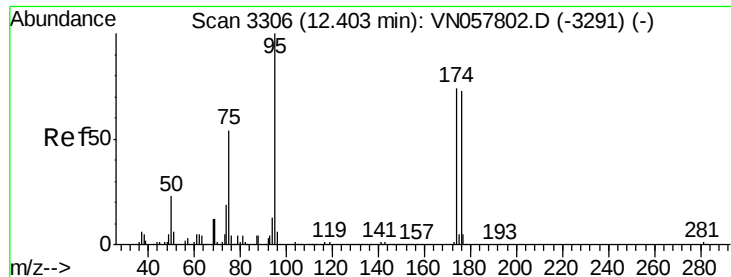
Tgt Ion: 76 Resp: 5552
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 17.509 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN058044.D
 Acq: 14 Sep 2019 1:37

Tgt Ion: 43 Resp: 83009
 Ion Ratio Lower Upper
 43 100
 58 19.3 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 42.257 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

Instrument :

MSVOA_N

ClientSampleId :

T2-3-(0)

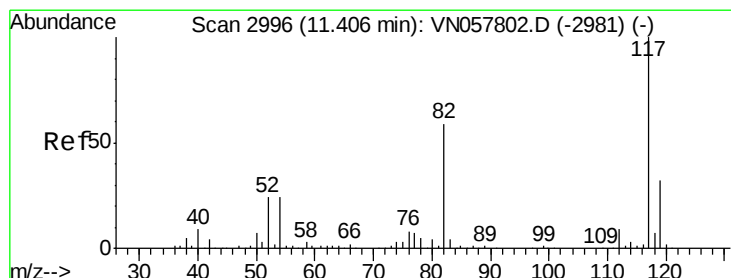
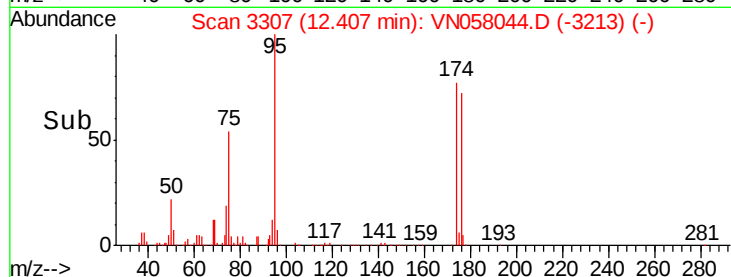
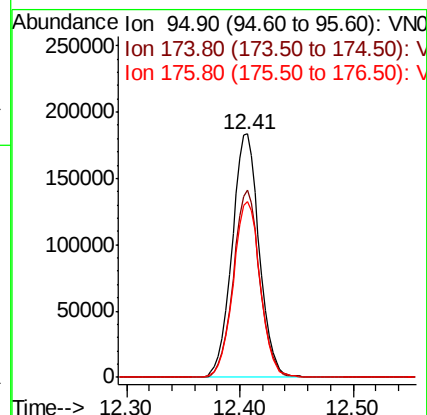
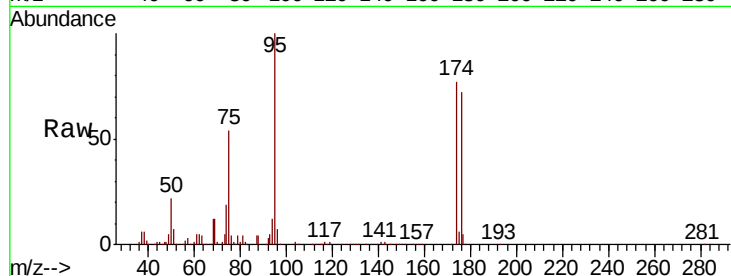
Tgt Ion: 95 Resp: 306101

Ion Ratio Lower Upper

95 100

174 74.8 0.0 150.2

176 72.0 0.0 146.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

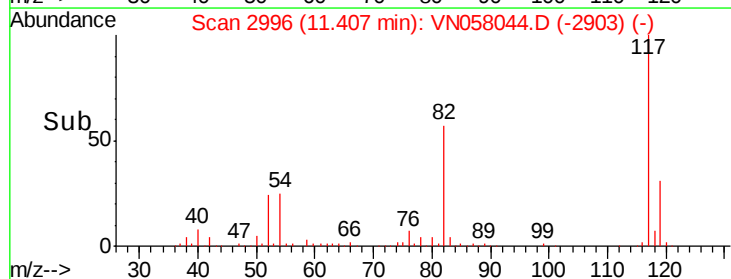
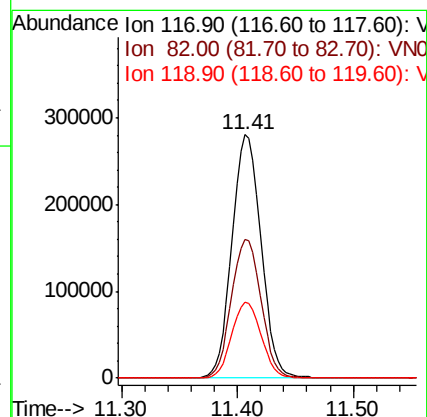
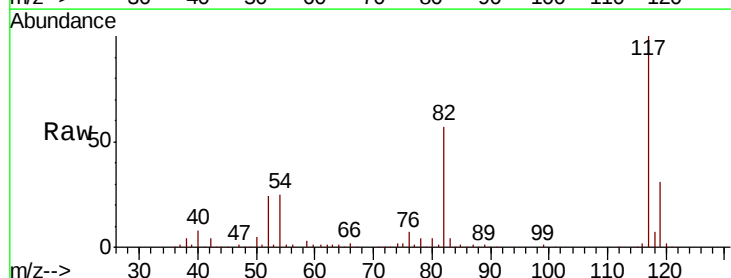
Tgt Ion: 117 Resp: 486426

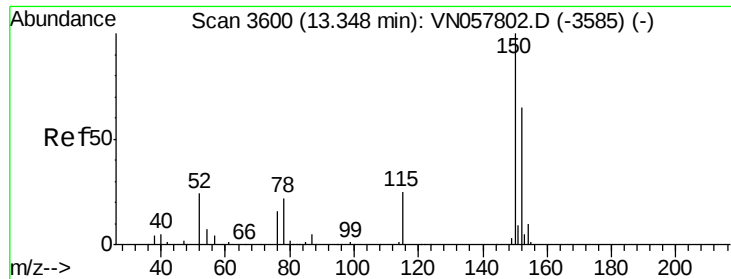
Ion Ratio Lower Upper

117 100

82 56.9 47.2 70.8

119 31.1 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

Instrument :

MSVOA_N

ClientSampled :

T2-3-(0)

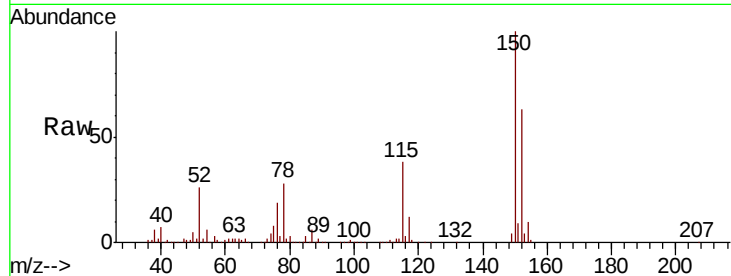
Tgt Ion:152 Resp: 249272

Ion Ratio Lower Upper

152 100

115 61.2 30.3 91.0

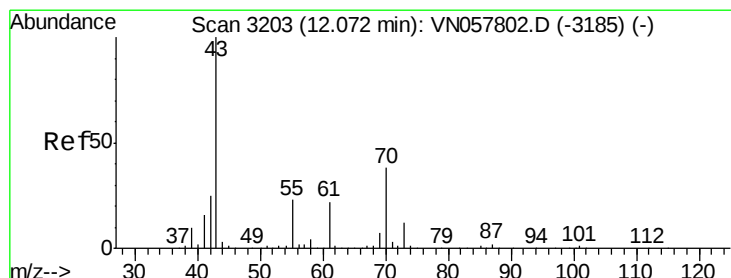
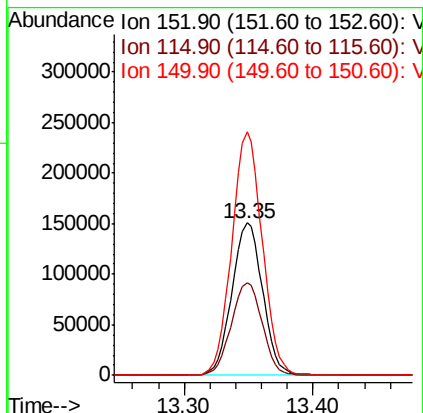
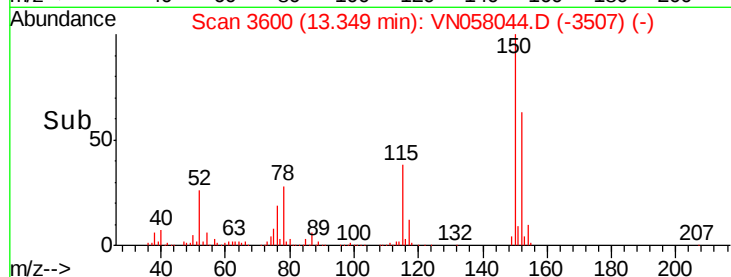
150 158.2 0.0 352.4



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: 0.562 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.04 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

Tgt Ion: 43 Resp: 4730

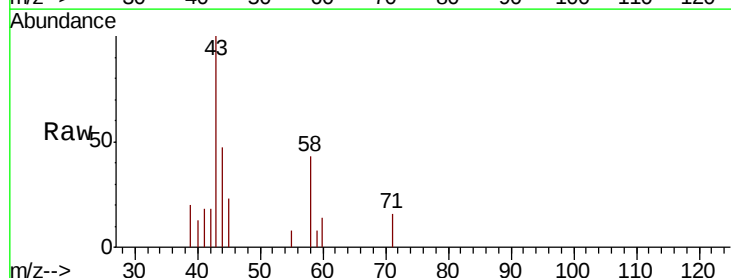
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 3.0 18.6 27.8#

61 0.0 17.4 26.2#

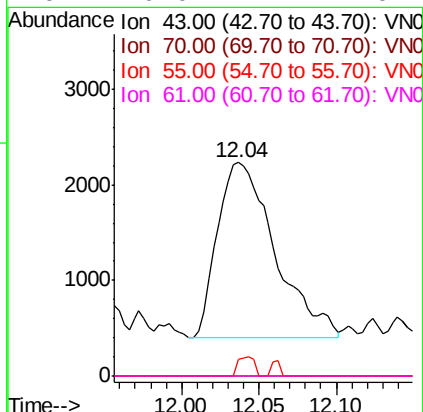
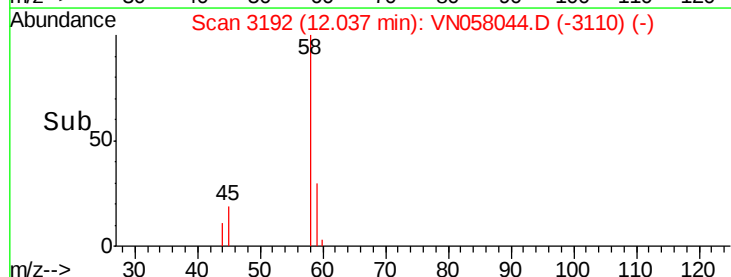


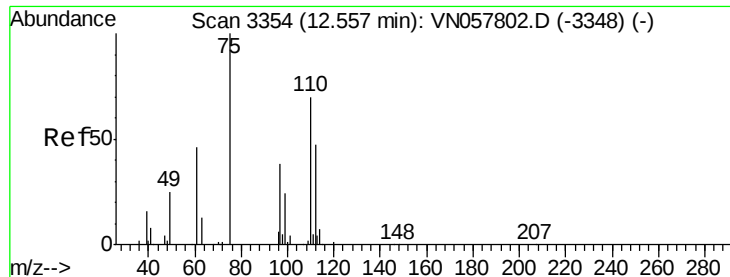
Abundance Ion 43.00 (42.70 to 43.70): VNO

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: 29.449 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

Instrument :

MSVOA_N

ClientSampleId :

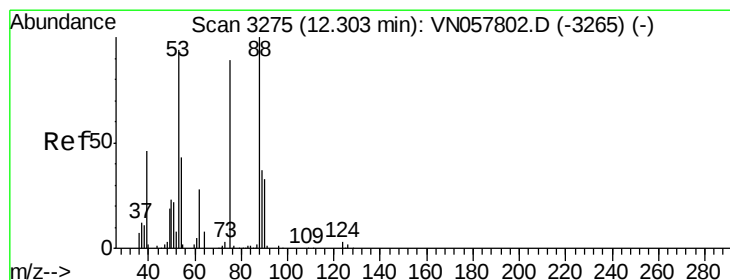
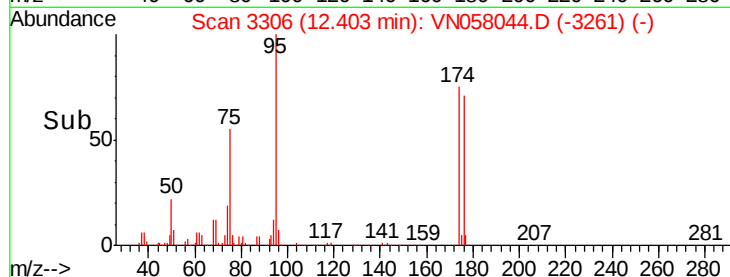
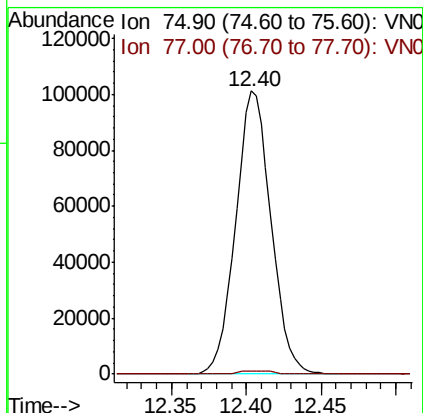
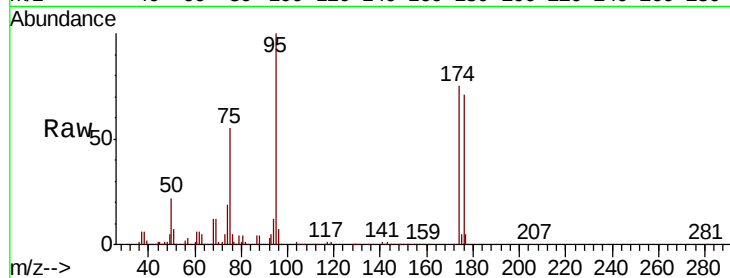
T2-3-(0)

Tgt Ion: 75 Resp: 166062

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 103.632 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058044.D

Acq: 14 Sep 2019 1:37

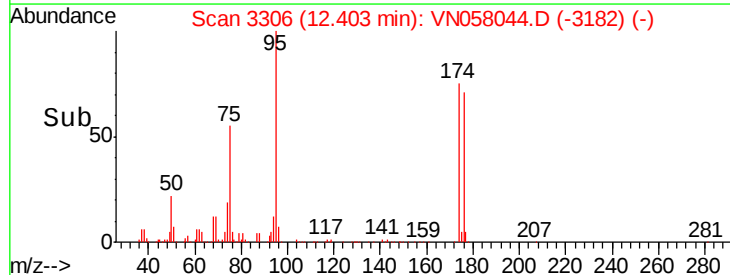
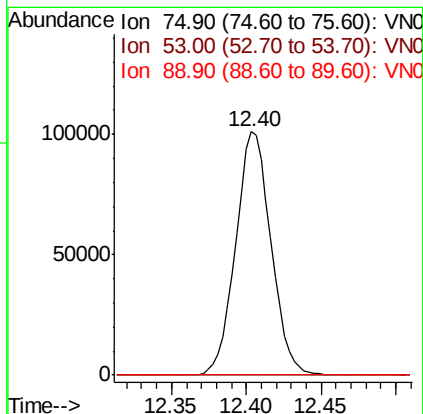
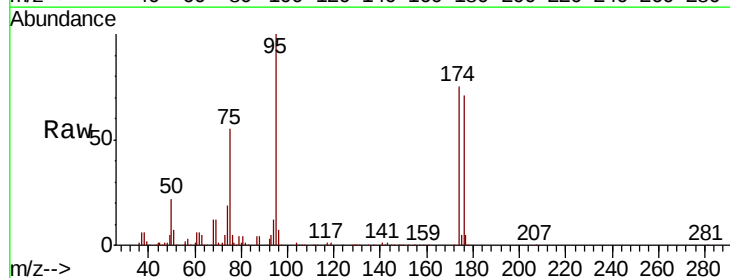
Tgt Ion: 75 Resp: 166062

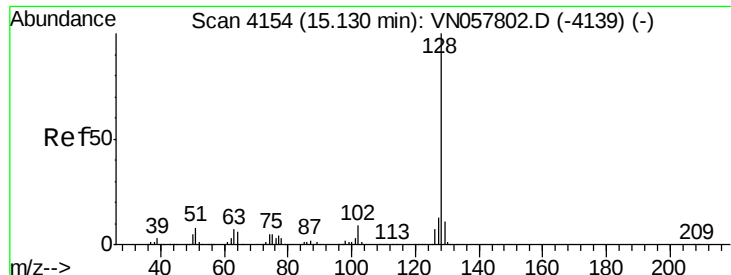
Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4156

Delta R.T. 0.01 min

Lab File: VN058044.D

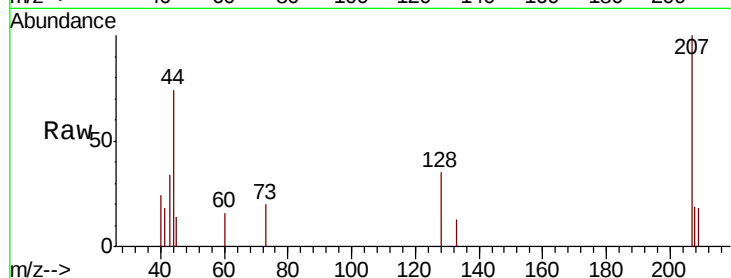
Acq: 14 Sep 2019 1:37

Instrument :

MSVOA_N

ClientSampleId :

T2-3-(0)



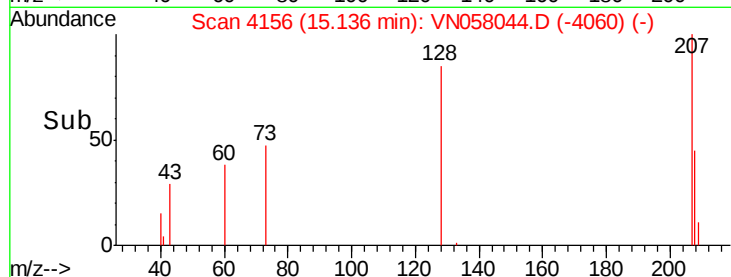
Tgt Ion:128 Resp: 751

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

15.14

400

300

200

100

0

Time-->