

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031919\
 Data File : VN054440.D
 Acq On : 19 Mar 2019 14:58
 Operator : JC/SP
 Sample : K1960-04DL 200X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 20 03:53:22 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	2069726	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2994090	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2453065	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	971900	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	911827	41.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.96%	
35) Dibromofluoromethane	7.59	113	882720	45.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.42%	
50) Toluene-d8	10.09	98	3385489	47.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.94%	
62) 4-Bromofluorobenzene	12.40	95	1026388	41.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.26%	

Target Compounds

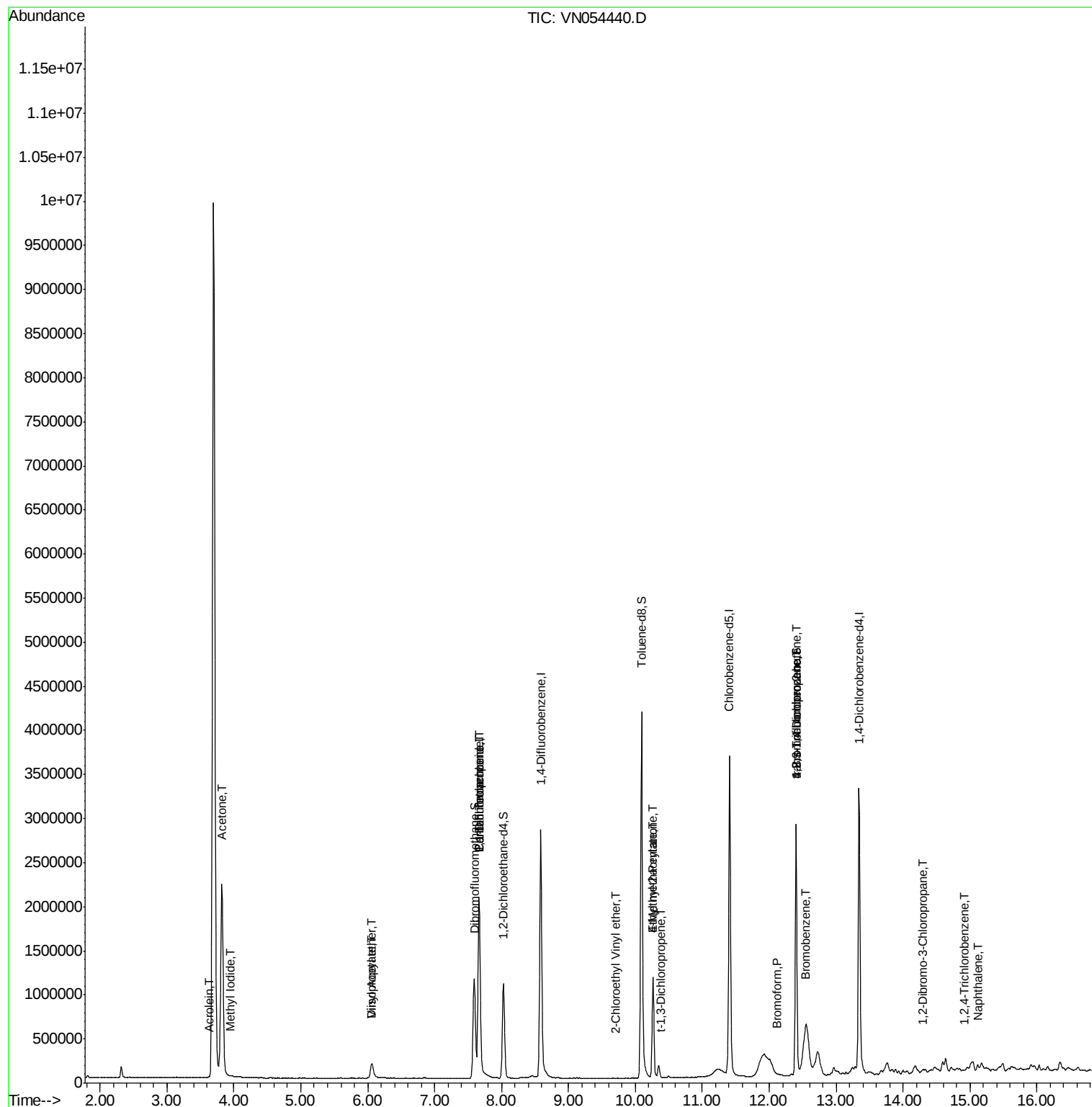
						Qvalue
10) Methyl Iodide	3.95	142	961	1.527	ug/l #	60
13) Acrolein	3.62	56	6983	4.890	ug/l #	14
16) Acetone	3.82	43	3437788	546.241	ug/l	97
22) Diisopropyl ether	6.07	45	14833	0.269	ug/l #	1
23) Vinyl Acetate	6.06	43	30840	0.760	ug/l #	70
31) Cyclohexane	7.66	56	26986	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	116924	4.241	ug/l #	47
38) Carbon Tetrachloride	7.67	117	162035	5.604	ug/l #	16
51) 4-Methyl-2-Pentanone	10.26	43	431146	29.296	ug/l #	1
53) t-1,3-Dichloropropene	10.39	75	168	1.991	ug/l #	42
56) Ethyl methacrylate	10.27	69	14549	0.668	ug/l #	1
58) 2-Chloroethyl Vinyl ether	9.71	63	30	16.831	ug/l #	44
71) Bromoform	12.12	173	858	2.405	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	459010	32.116	ug/l #	100
77) Bromobenzene	12.55	156	872421	42.400	ug/l #	1
81) trans-1,4-Dichloro-2-buten	12.40	75	459010	109.787	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	14.28	75	550	0.215	ug/l #	23
93) 1,2,4-Trichlorobenzene	14.91	180	2458	2.631	ug/l #	44
95) Naphthalene	15.13	128	18186	3.867	ug/l #	88

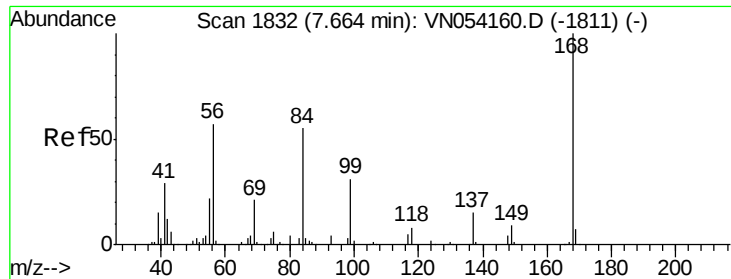
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

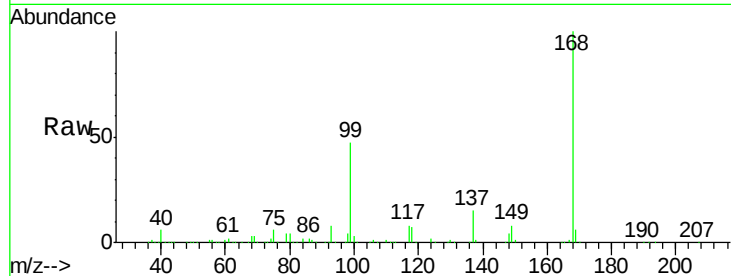
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 2069726

Ion Ratio Lower Upper

168 100

99 46.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

800000

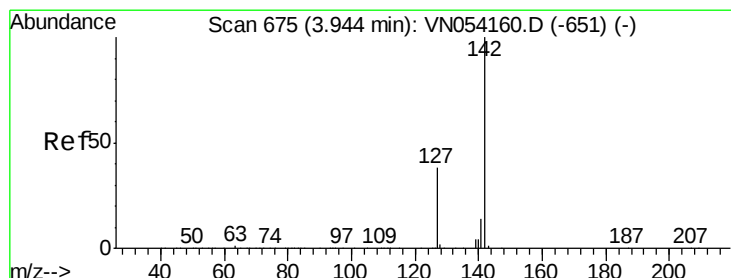
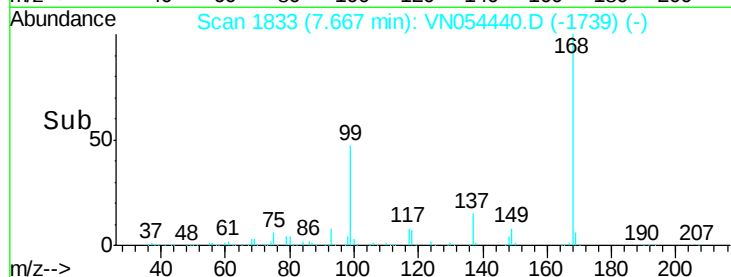
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80



#10

Methyl Iodide

Concen: 1.527 ug/l

RT: 3.95 min Scan# 676

Delta R.T. 0.00 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

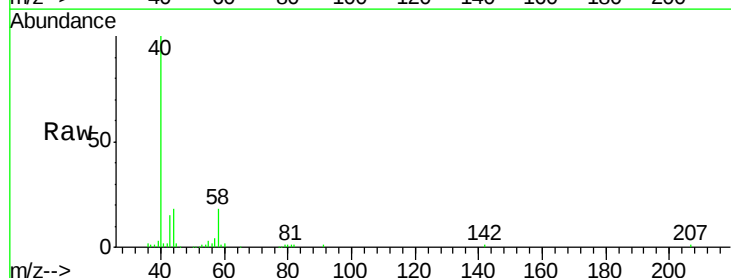
Tgt Ion:142 Resp: 961

Ion Ratio Lower Upper

142 100

127 12.2 30.3 45.5#

141 0.0 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.95

600

500

400

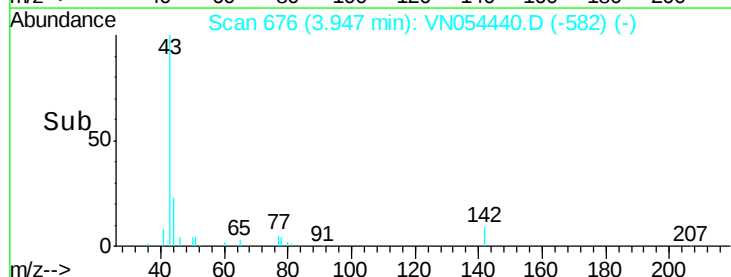
300

200

100

0

Time--> 3.90 3.95 4.00





#13

Acrolein

Concen: 4.890 ug/l

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

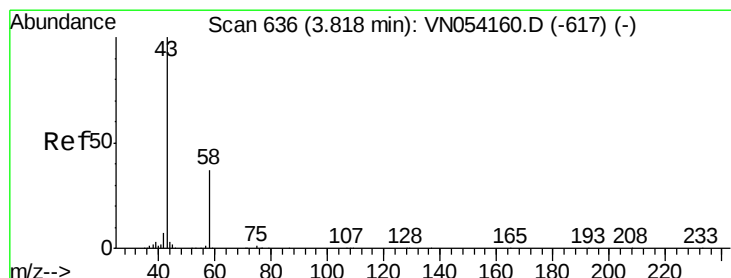
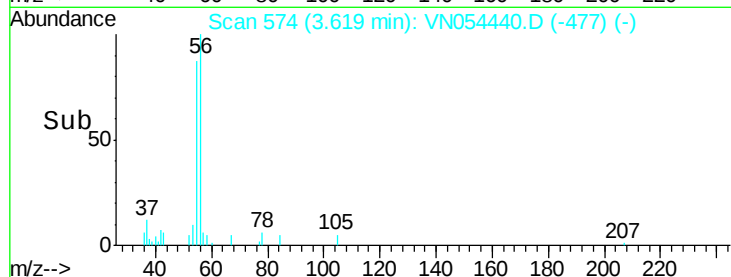
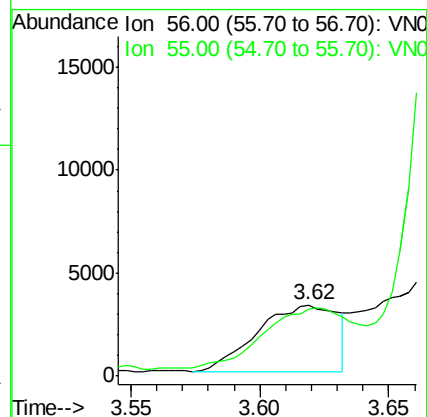
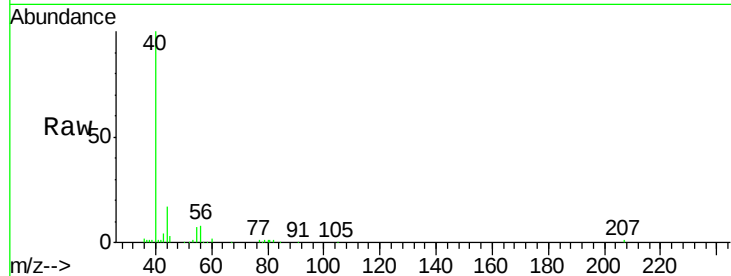
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 6983

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



#16

Acetone

Concen: 546.241 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN054440.D

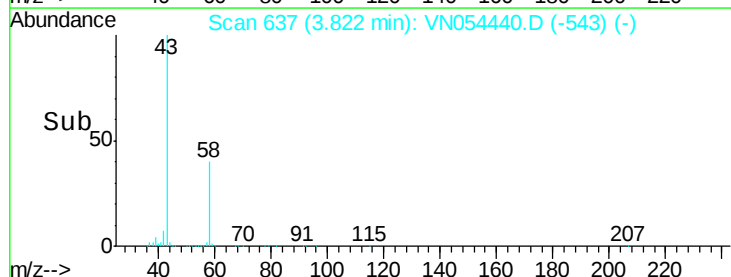
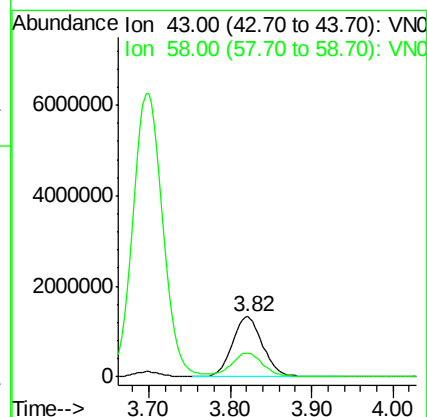
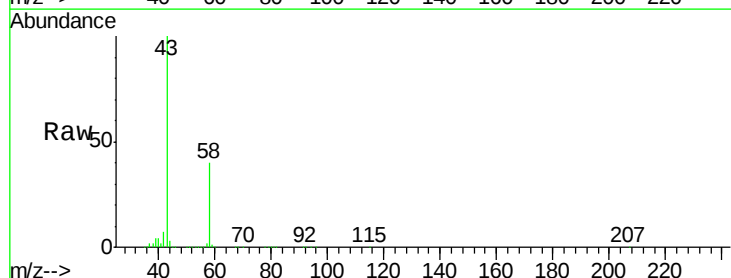
Acq: 19 Mar 2019 14:58

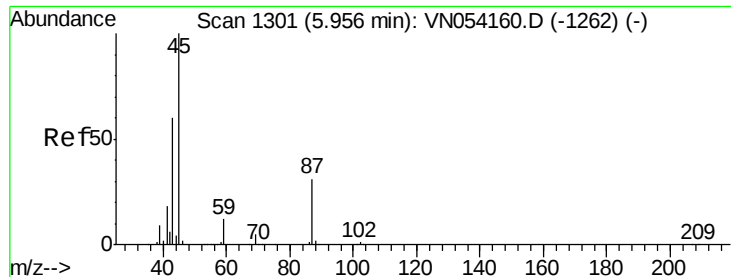
Tgt Ion: 43 Resp: 3437788

Ion Ratio Lower Upper

43 100

58 39.3 29.9 44.9





#22

Diisopropyl ether

Concen: 0.269 ug/l

RT: 6.07 min Scan# 1335

Delta R.T. 0.11 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 45 Resp: 14833

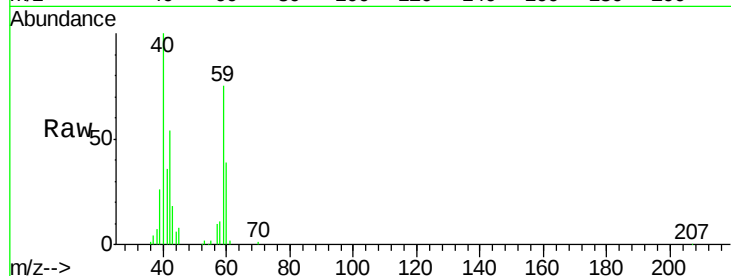
Ion Ratio Lower Upper

45 100

43 201.8 48.2 72.2#

87 0.0 24.9 37.3#

59 880.4 9.5 14.3#

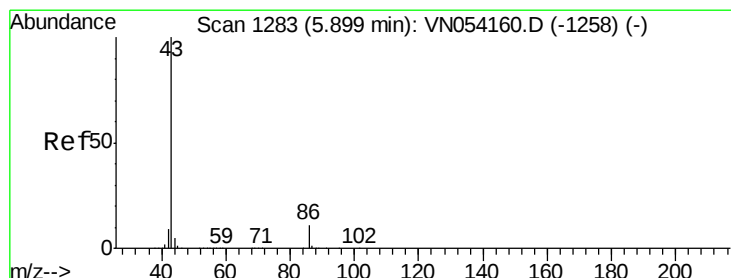
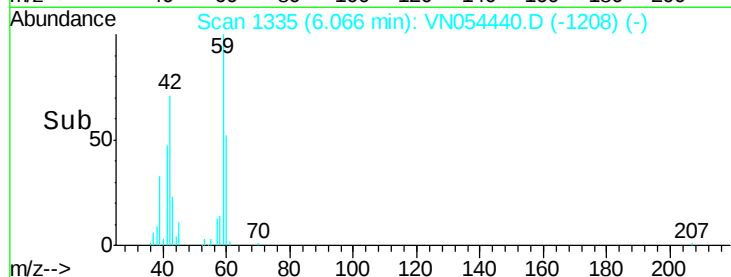
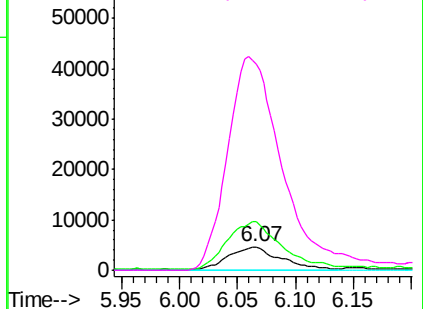


Abundance Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0



#23

Vinyl Acetate

Concen: 0.760 ug/l

RT: 6.06 min Scan# 1334

Delta R.T. 0.16 min

Lab File: VN054440.D

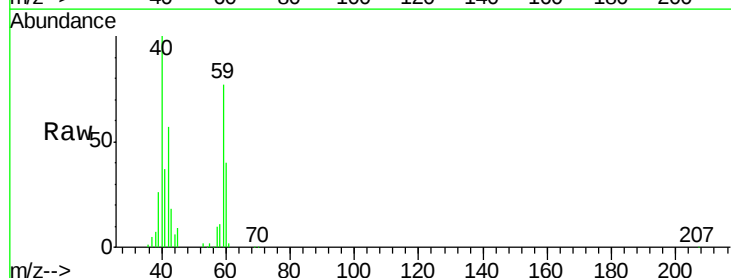
Acq: 19 Mar 2019 14:58

Tgt Ion: 43 Resp: 30840

Ion Ratio Lower Upper

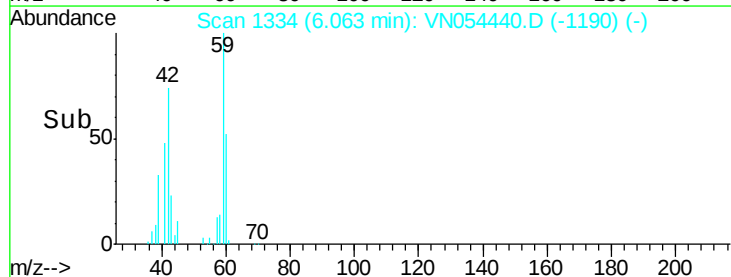
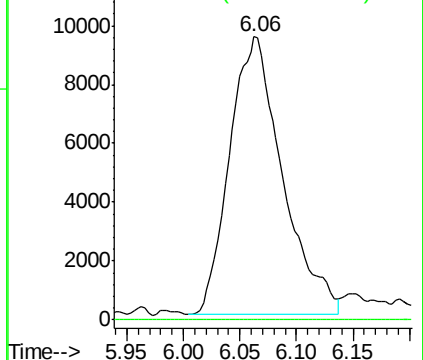
43 100

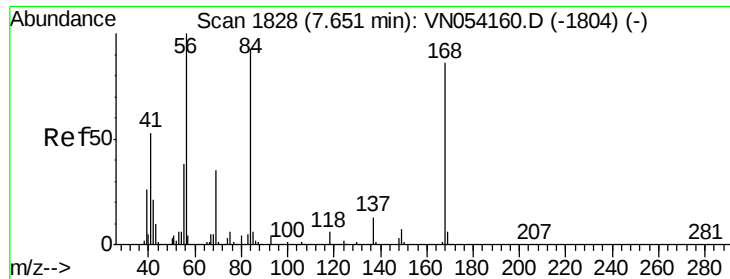
86 0.0 9.1 13.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

Instrument :
MSVOA_N
ClientSampled :

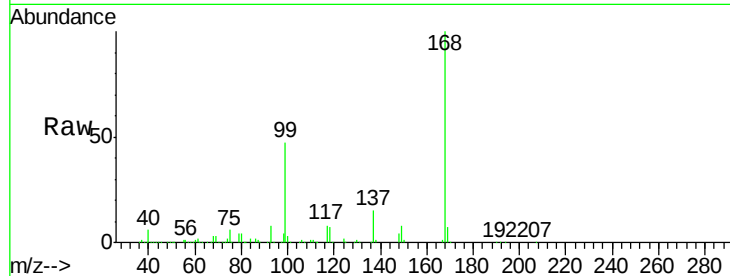
Tot Ion: 56 Resp: 26986

Ion Ratio Lower Upper

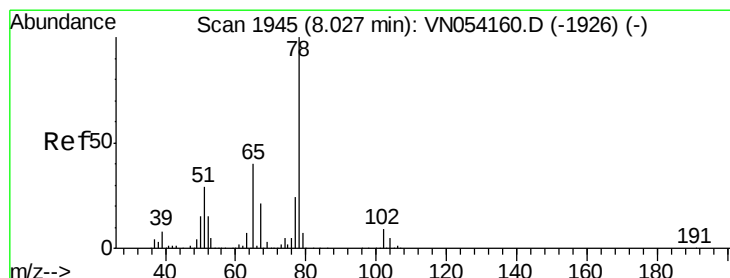
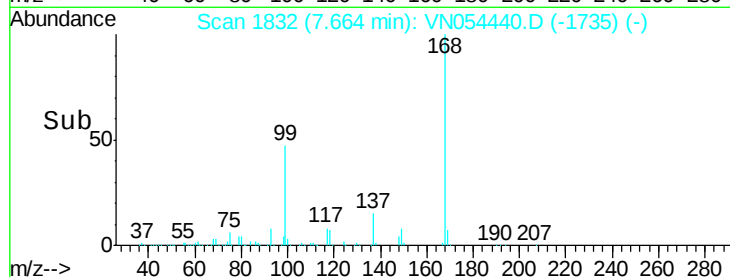
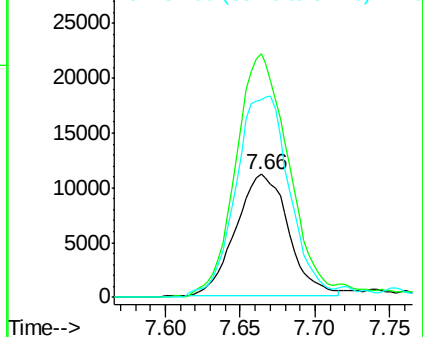
56 100

69 199.6 27.8 41.6#

84 159.8 74.6 111.8#



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: 41.483 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN054440.D

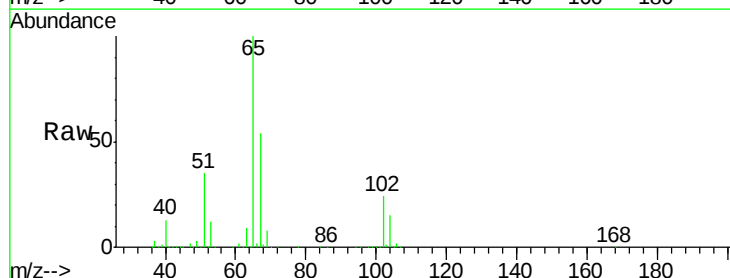
Acq: 19 Mar 2019 14:58

Tgt Ion: 65 Resp: 911827

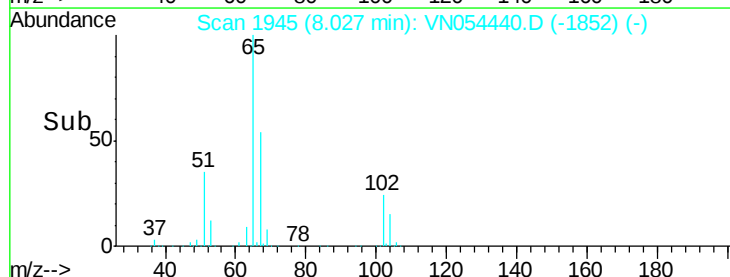
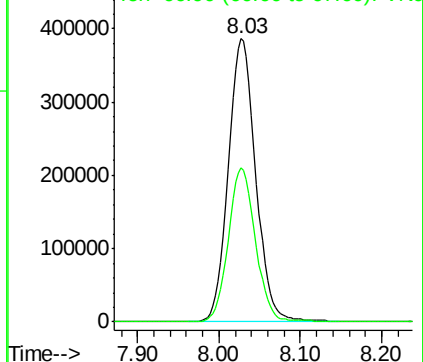
Ion Ratio Lower Upper

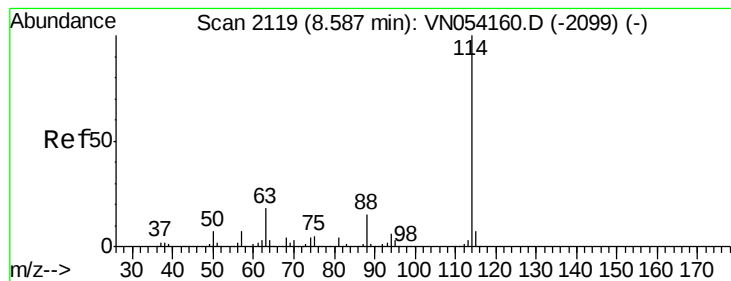
65 100

67 53.9 0.0 104.6



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

Instrument :

MSVOA_N

ClientSampleId :

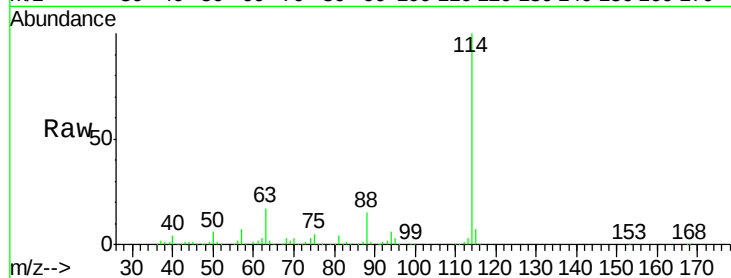
Tot Ion:114 Resp: 2994090

Ion Ratio Lower Upper

114 100

63 17.2 0.0 35.2

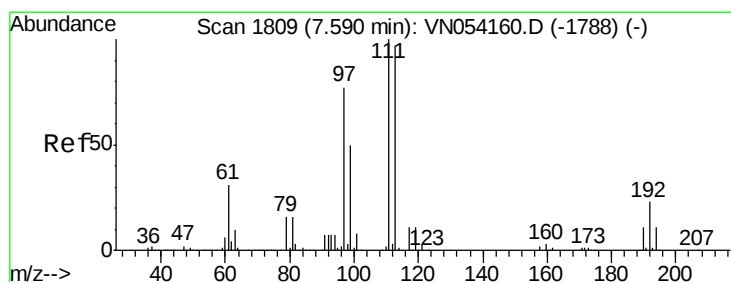
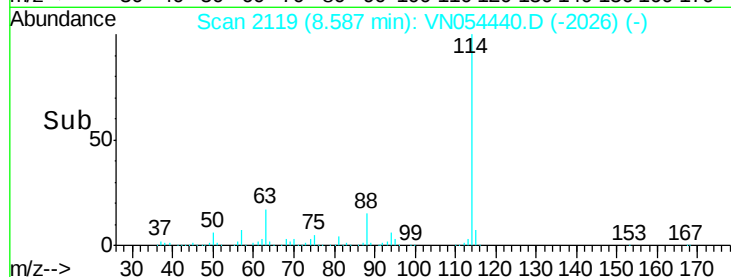
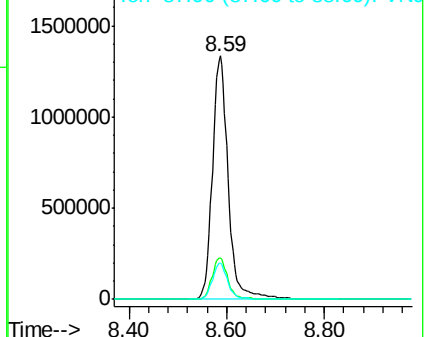
88 15.0 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): V

Ion 87.90 (87.60 to 88.60): V



#35

Dibromofluoromethane

Concen: 45.712 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

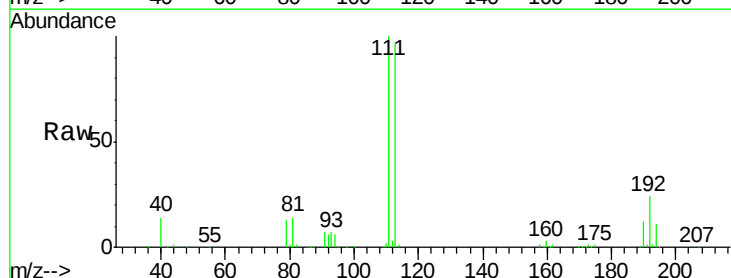
Tgt Ion:113 Resp: 882720

Ion Ratio Lower Upper

113 100

111 102.1 82.2 123.4

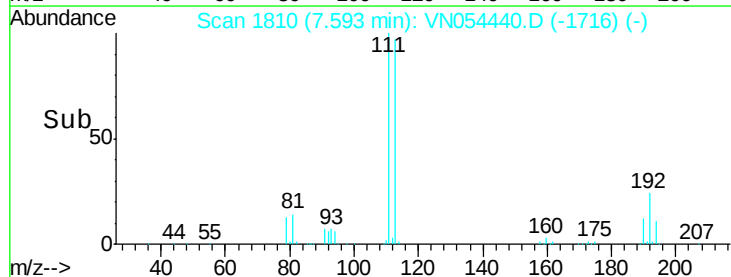
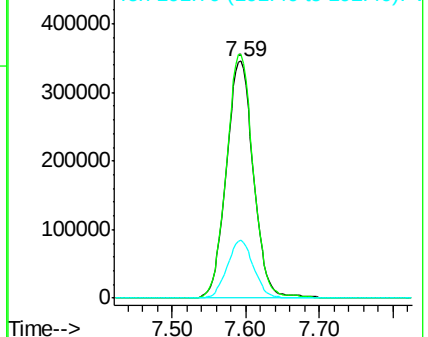
192 23.8 19.2 28.8

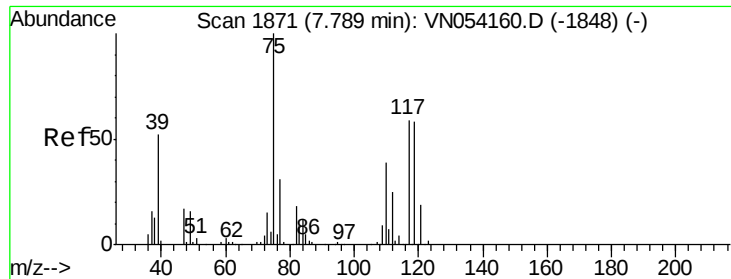


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

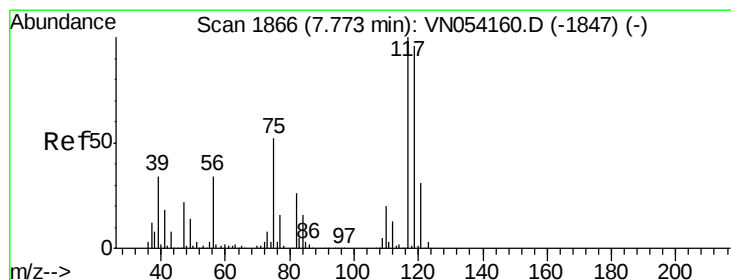
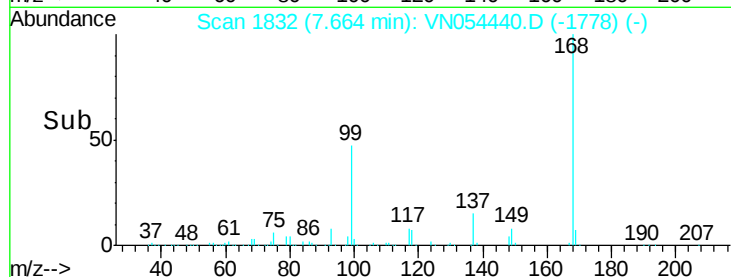
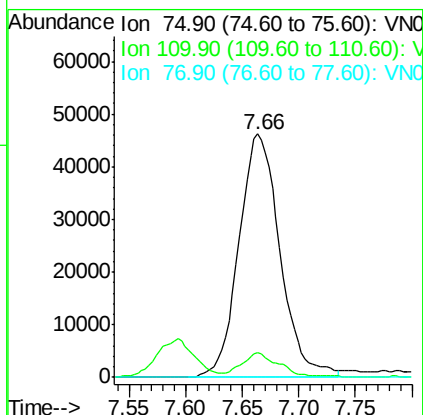
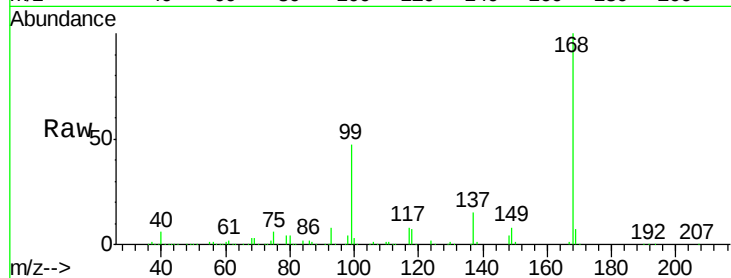




#36
 1,1-Dichloropropene
 Concen: 4.241 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054440.D
 Acq: 19 Mar 2019 14:58

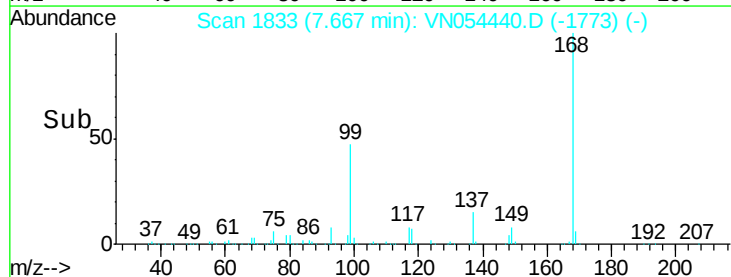
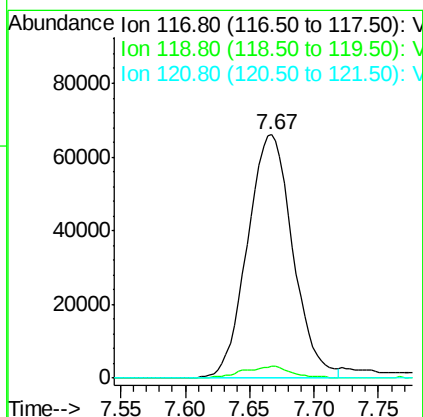
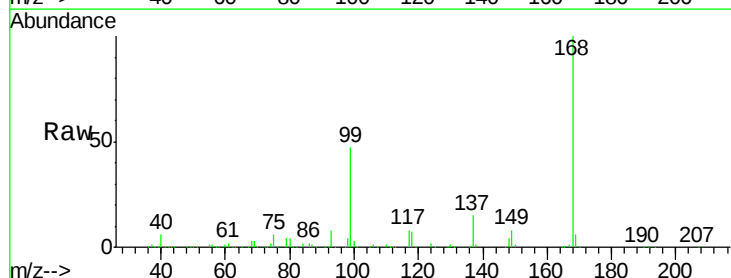
Instrument :
 MSVOA_N
 ClientSampleId :

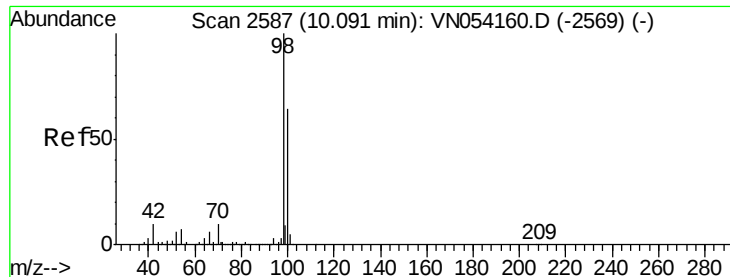
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.4	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 5.604 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN054440.D
 Acq: 19 Mar 2019 14:58

Tgt Ion	Ratio	Lower	Upper
117	100		
119	4.9	76.3	114.5#
121	0.0	24.6	36.8#





#50

Toluene-d8

Concen: 47.471 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

Instrument :

MSVOA_N

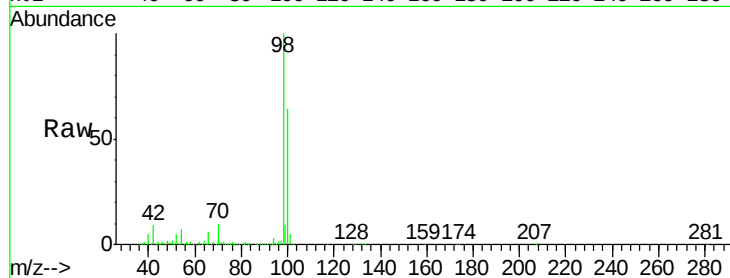
ClientSampleId :

Tot Ion: 98 Resp: 3385489

Ion Ratio Lower Upper

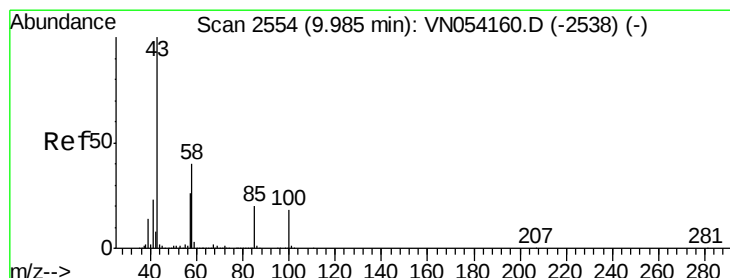
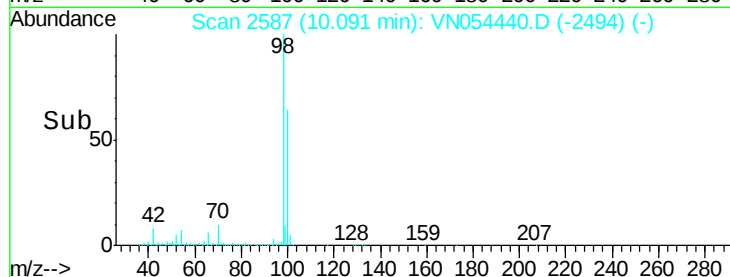
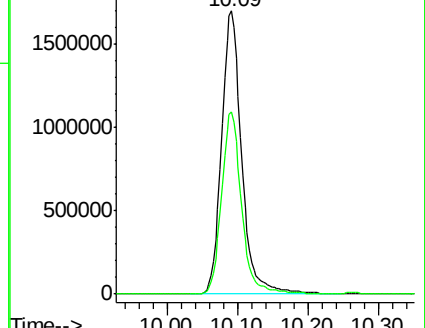
98 100

100 64.2 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN054440.D (-2569) (-)

Ion 100.00 (99.70 to 100.70): VN054440.D (-2569) (-)



#51

4-Methyl-2-Pentanone

Concen: 29.296 ug/l

RT: 10.26 min Scan# 2640

Delta R.T. 0.28 min

Lab File: VN054440.D

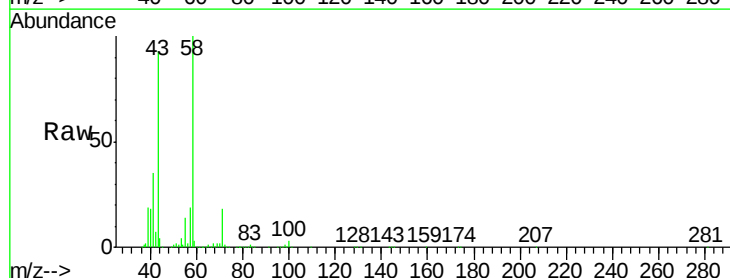
Acq: 19 Mar 2019 14:58

Tgt Ion: 43 Resp: 431146

Ion Ratio Lower Upper

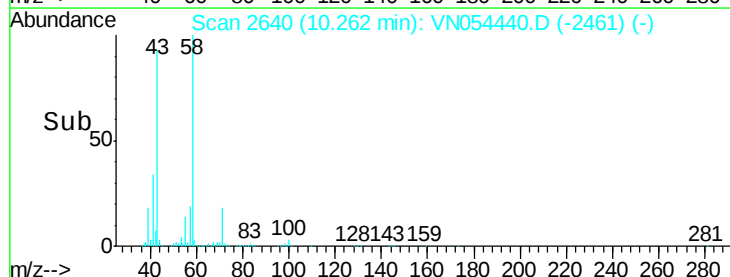
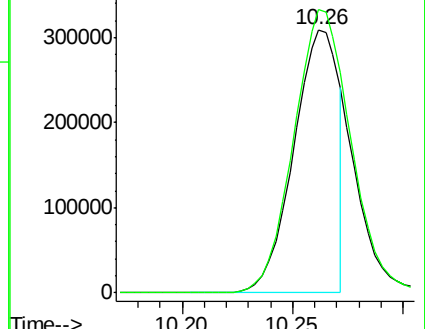
43 100

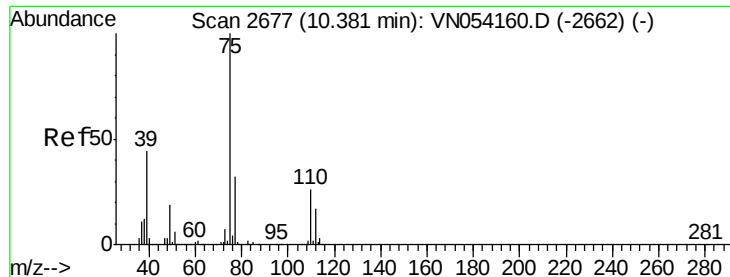
58 107.6 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VN054440.D (-2461) (-)

Ion 58.00 (57.70 to 58.70): VN054440.D (-2461) (-)





#53

t-1,3-Dichloropropene

Concen: 1.991 ug/l

RT: 10.39 min Scan# 2679

Delta R.T. 0.01 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

Instrument :

MSVOA_N

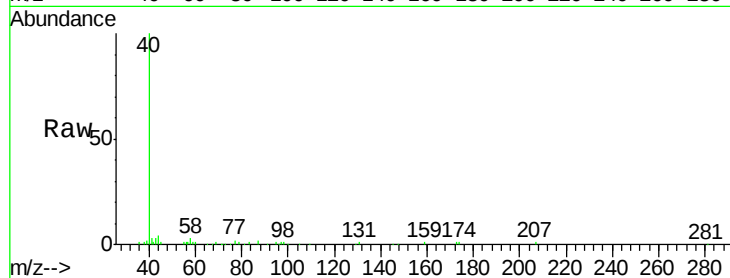
ClientSampleId :

Tot Ion: 75 Resp: 168

Ion Ratio Lower Upper

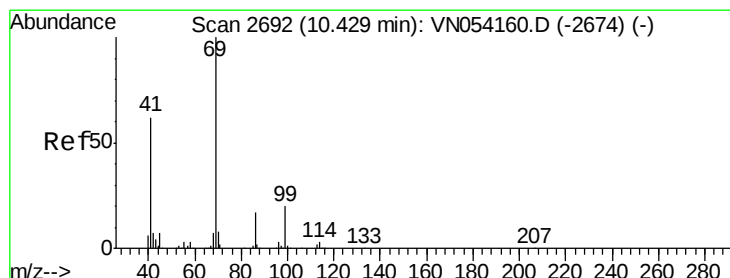
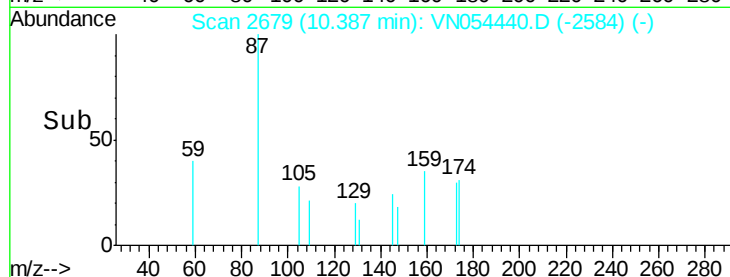
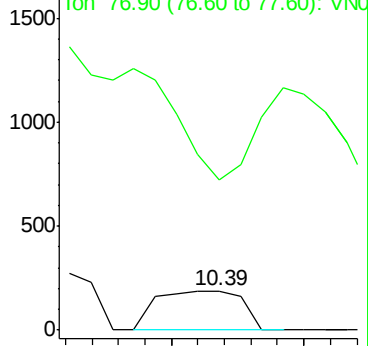
75 100

77 0.0 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#56

Ethyl methacrylate

Concen: 0.668 ug/l

RT: 10.27 min Scan# 2641

Delta R.T. -0.16 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

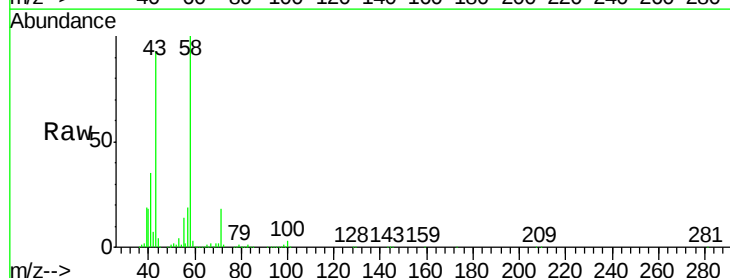
Tgt Ion: 69 Resp: 14549

Ion Ratio Lower Upper

69 100

41 1467.9 49.4 74.2#

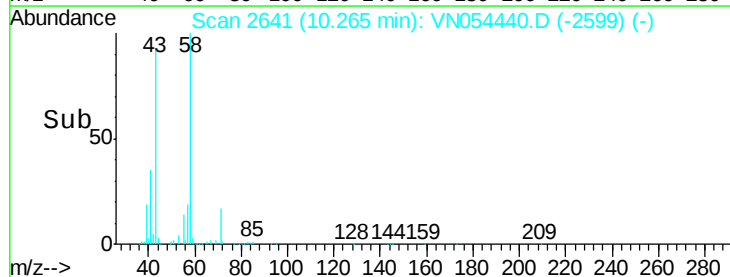
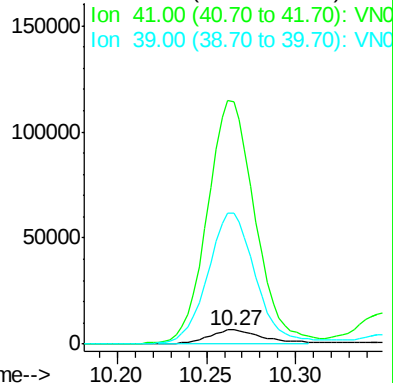
39 809.3 28.3 42.5#

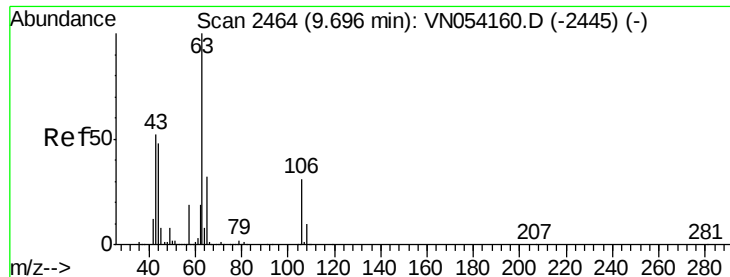


Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

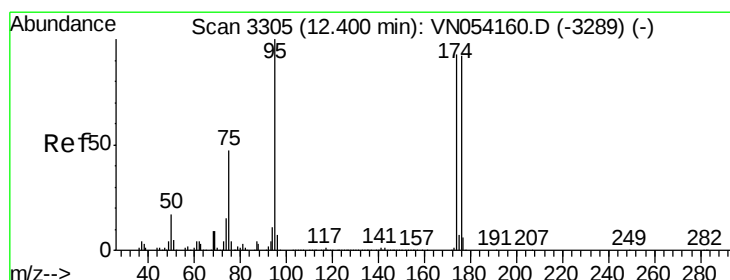
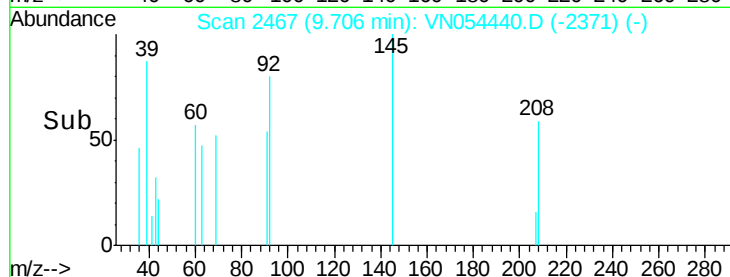
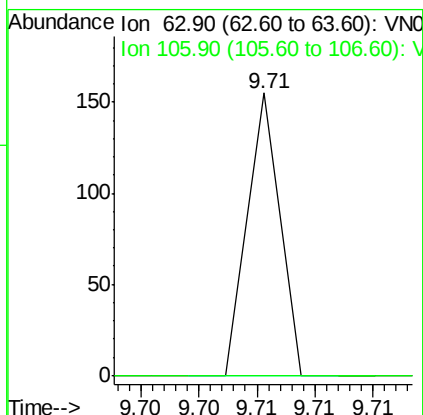
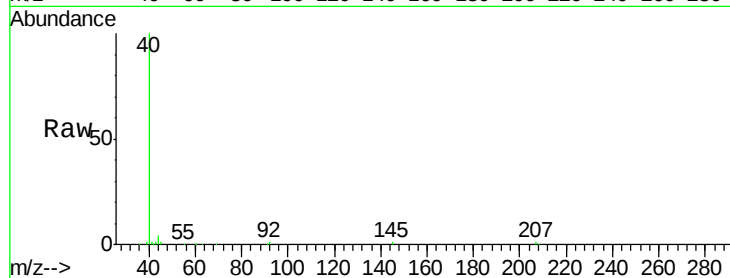




#58
2-Chloroethyl Vinyl ether
Concen: 16.831 ug/l
RT: 9.71 min Scan# 2467
Delta R.T. 0.01 min
Lab File: VN054440.D
Acq: 19 Mar 2019 14:58

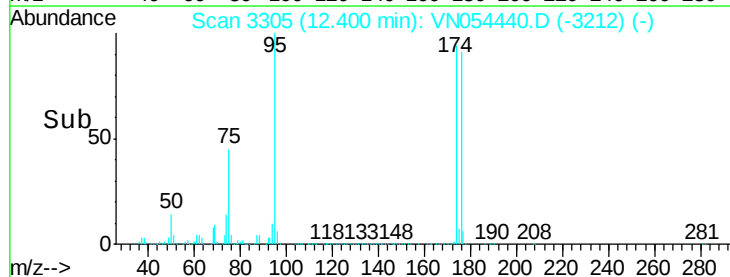
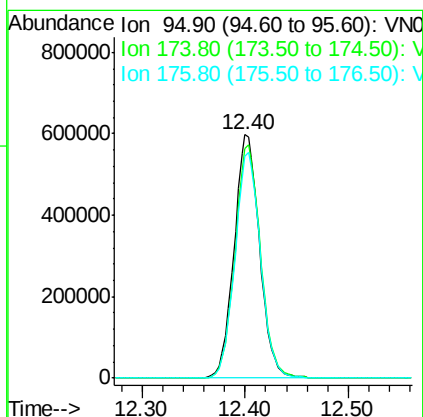
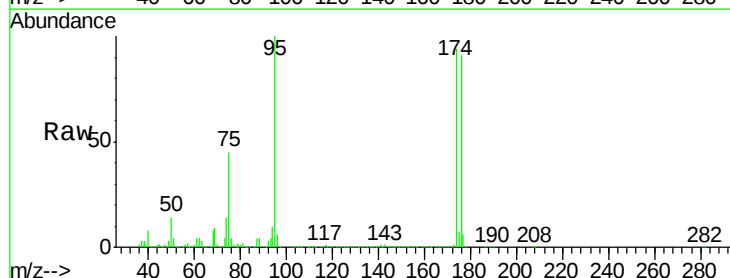
Instrument :
MSVOA_N
ClientSampled :

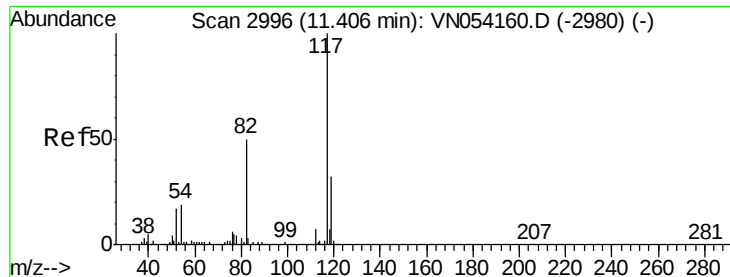
Tot Ion: 63 Resp: 30
Ion Ratio Lower Upper
63 100
106 0.0 24.4 36.6#



#62
4-Bromofluorobenzene
Concen: 41.131 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054440.D
Acq: 19 Mar 2019 14:58

Tgt Ion: 95 Resp: 1026388
Ion Ratio Lower Upper
95 100
174 95.8 0.0 191.0
176 93.2 0.0 187.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

Instrument :

MSVOA_N

ClientSampleId :

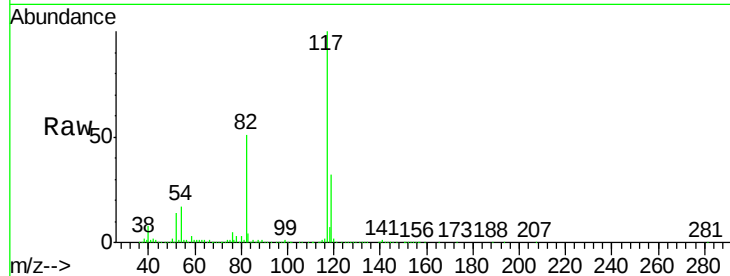
Tot Ion:117 Resp: 2453065

Ion Ratio Lower Upper

117 100

82 50.6 40.0 60.0

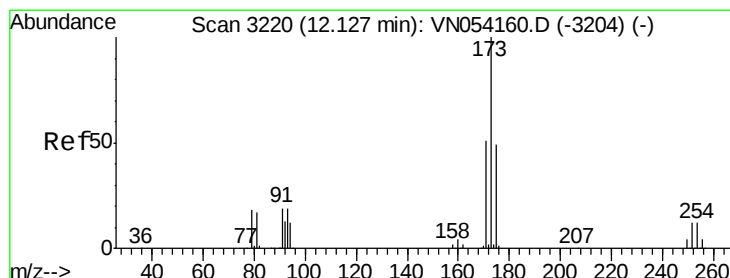
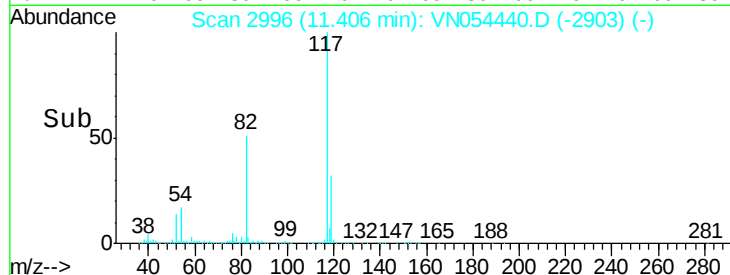
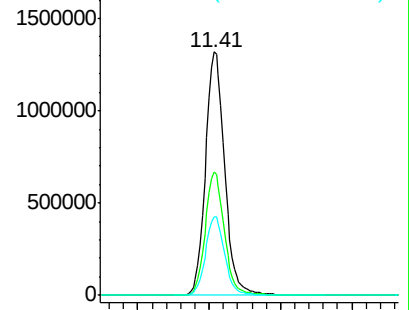
119 32.3 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 2.405 ug/l

RT: 12.12 min Scan# 3219

Delta R.T. -0.00 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

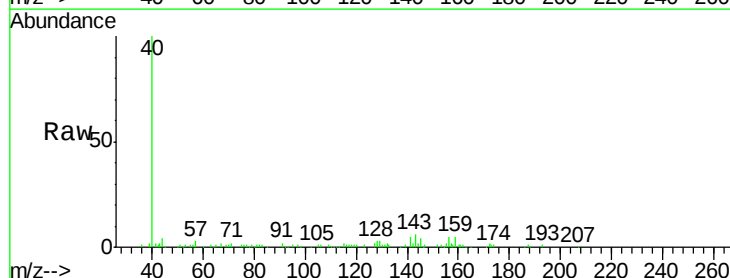
Tgt Ion:173 Resp: 858

Ion Ratio Lower Upper

173 100

175 0.0 24.4 73.2#

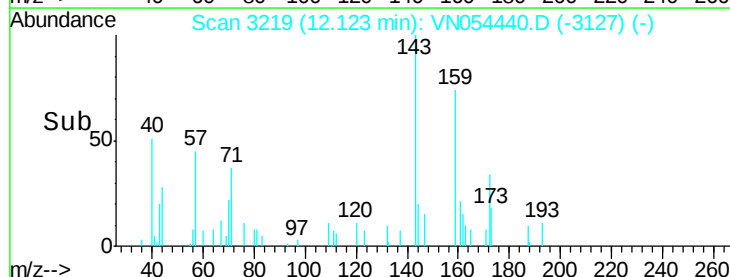
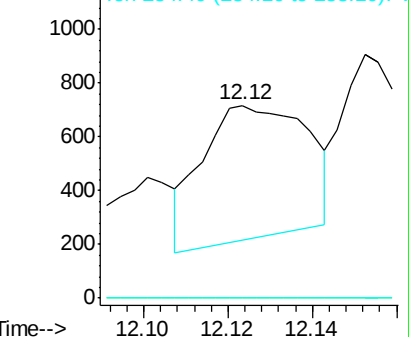
254 0.0 0.1 0.1#

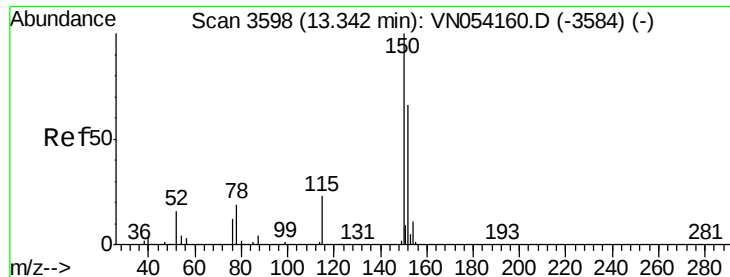


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

Instrument :

MSVOA_N

ClientSampleId :

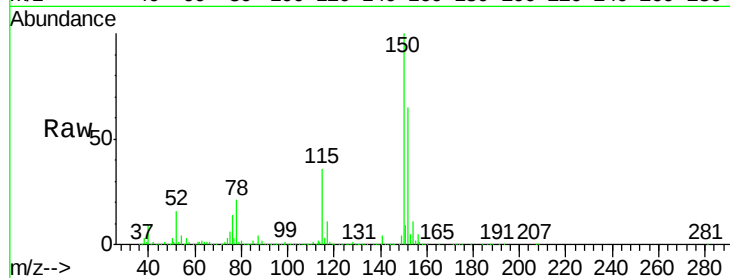
Tot Ion:152 Resp: 971900

Ion Ratio Lower Upper

152 100

115 55.8 27.2 81.6

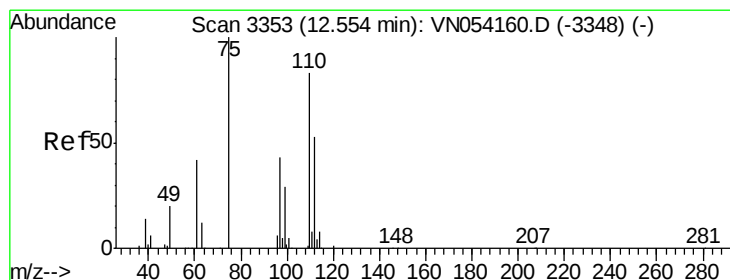
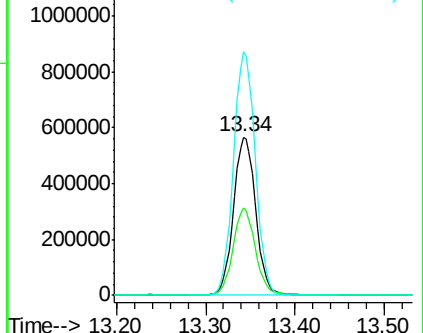
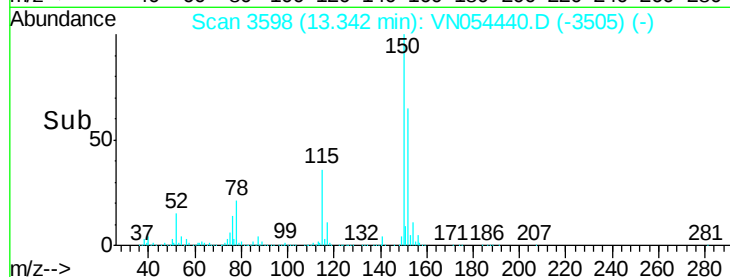
150 151.7 0.0 349.2



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 32.116 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054440.D

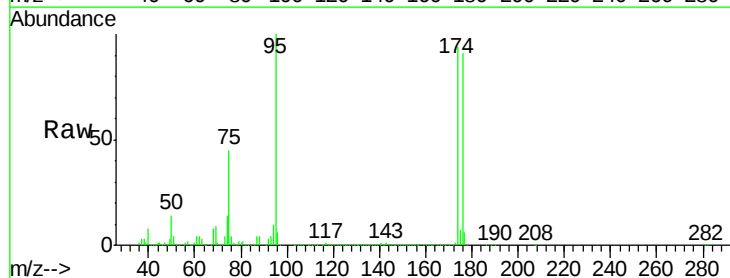
Acq: 19 Mar 2019 14:58

Tgt Ion: 75 Resp: 459010

Ion Ratio Lower Upper

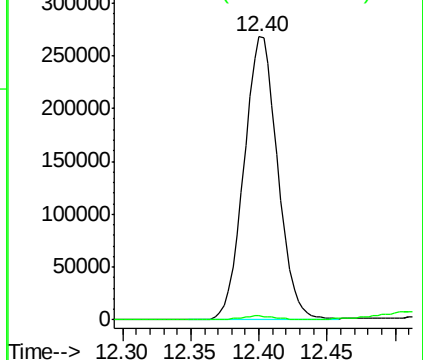
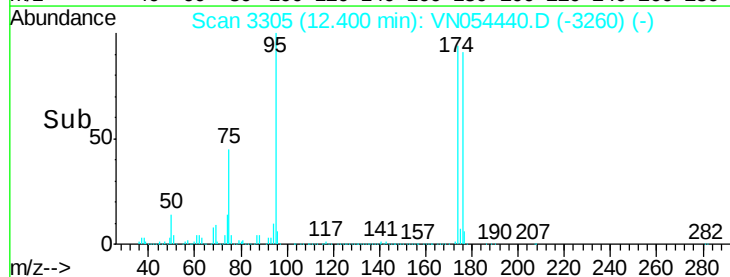
75 100

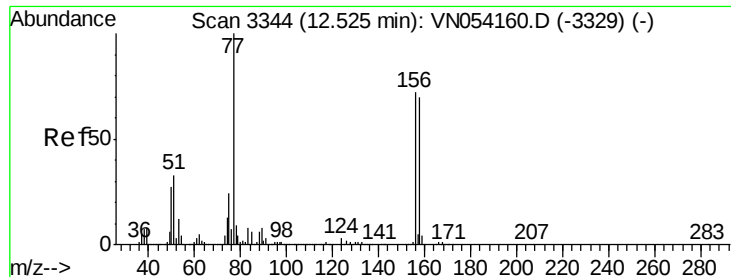
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

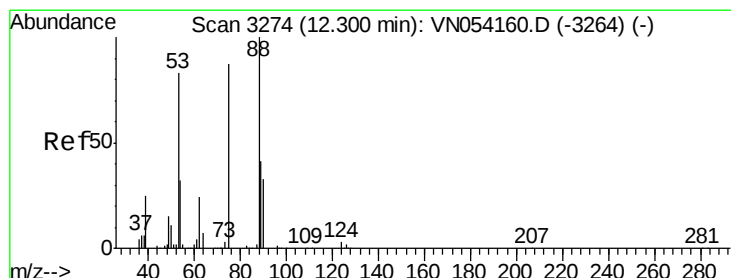
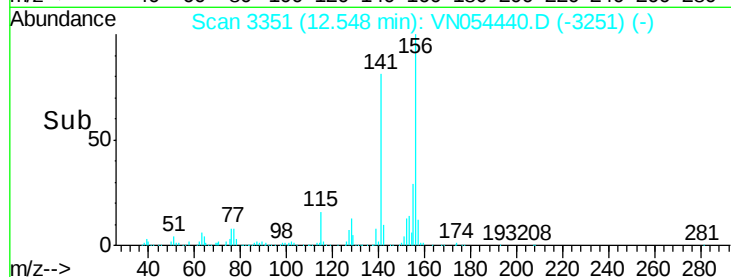
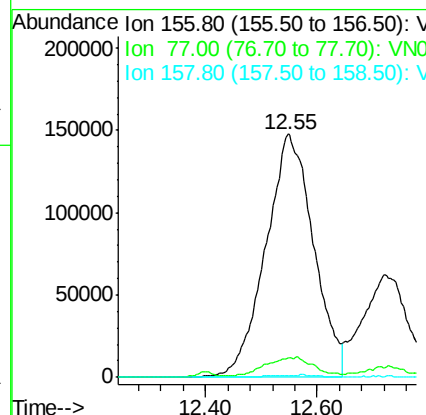
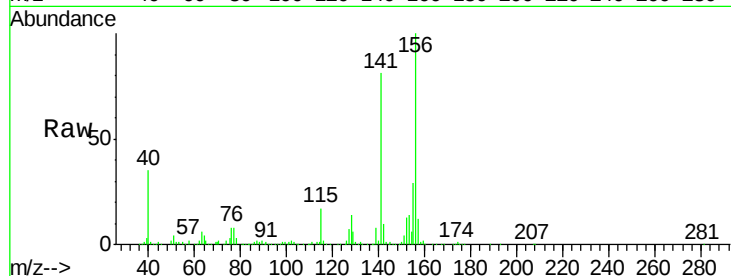




#77
Bromobenzene
Concen: 42.400 ug/l
RT: 12.55 min Scan# 3351
Delta R.T. 0.02 min
Lab File: VN054440.D
Acq: 19 Mar 2019 14:58

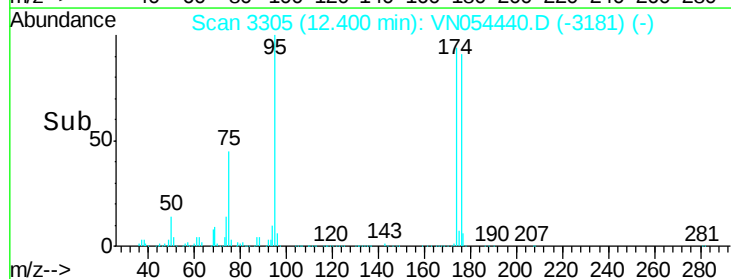
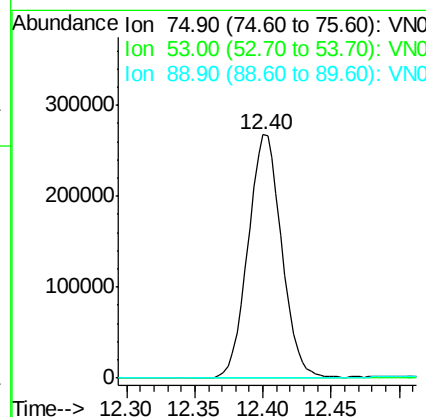
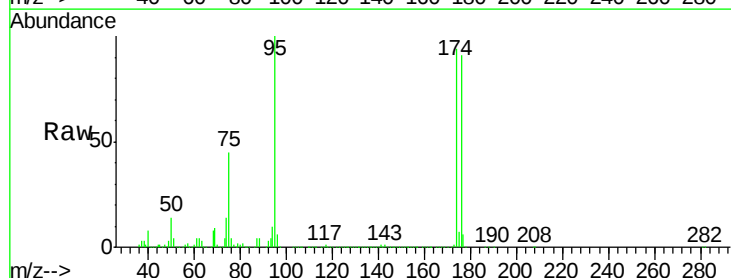
Instrument :
MSVOA_N
ClientSampleId :

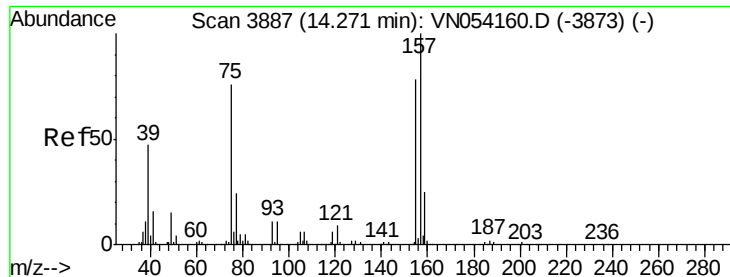
Tot Ion:156 Resp: 872421
Ion Ratio Lower Upper
156 100
77 4.4 81.5 244.4#
158 0.0 49.0 147.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 109.787 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054440.D
Acq: 19 Mar 2019 14:58

Tgt Ion: 75 Resp: 459010
Ion Ratio Lower Upper
75 100
53 0.1 76.2 114.2#
89 0.1 39.2 58.8#





#92

1,2-Dibromo-3-Chloropropane

Concen: 0.215 ug/l

RT: 14.28 min Scan# 3889

Delta R.T. 0.01 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

Instrument :

MSVOA_N

ClientSampled :

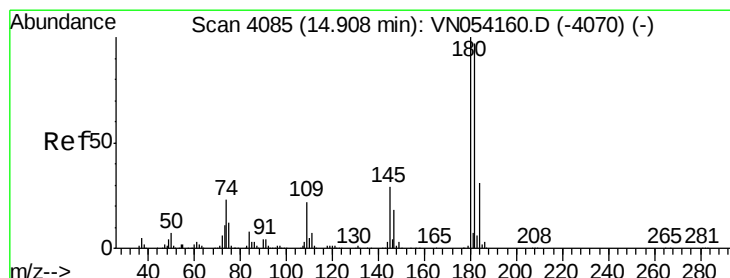
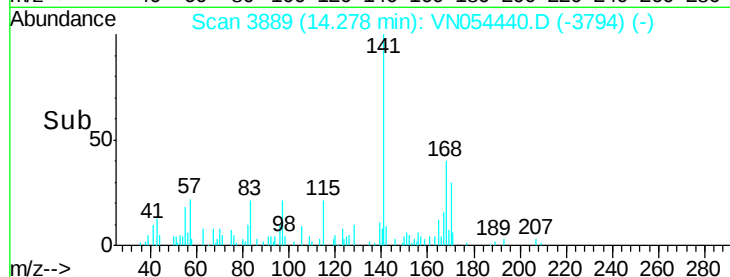
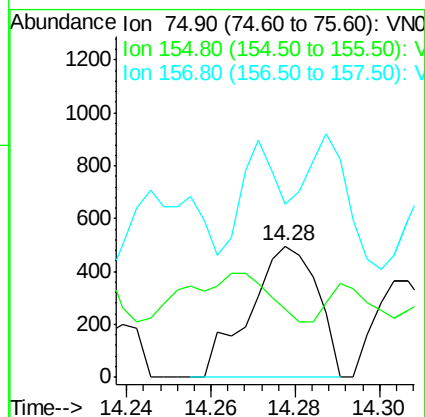
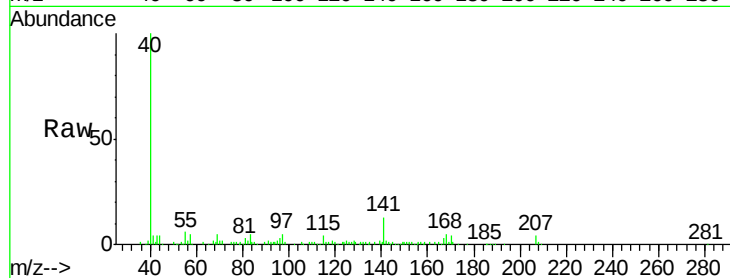
Tot Ion: 75 Resp: 550

Ion Ratio Lower Upper

75 100

155 0.0 50.1 150.3#

157 59.6 63.1 189.3#



#93

1,2,4-Trichlorobenzene

Concen: 2.631 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

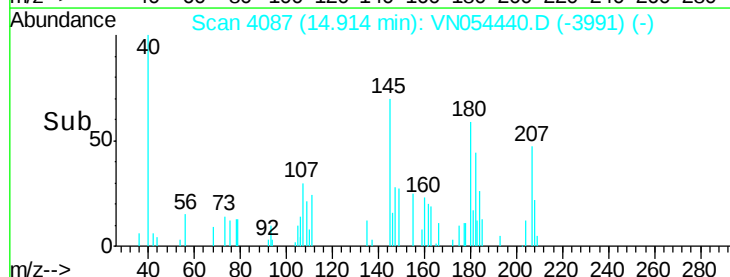
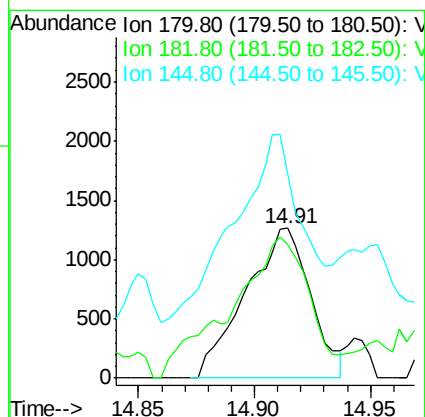
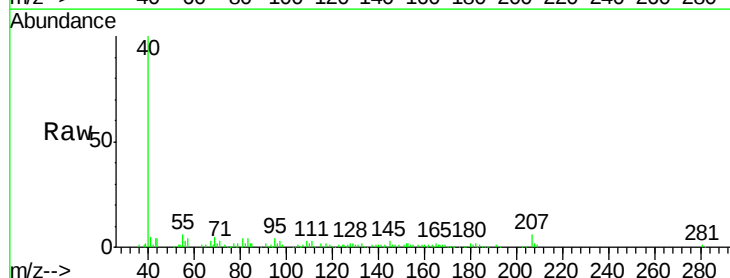
Tgt Ion: 180 Resp: 2458

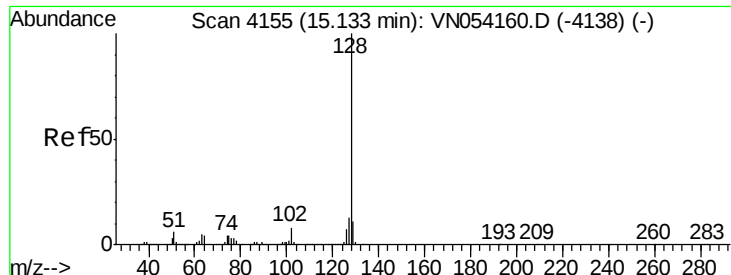
Ion Ratio Lower Upper

180 100

182 114.1 48.0 144.2

145 124.6 14.2 42.8#





#95

Naphthalene

Concen: 3.867 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN054440.D

Acq: 19 Mar 2019 14:58

Instrument :

MSVOA_N

ClientSampleId :

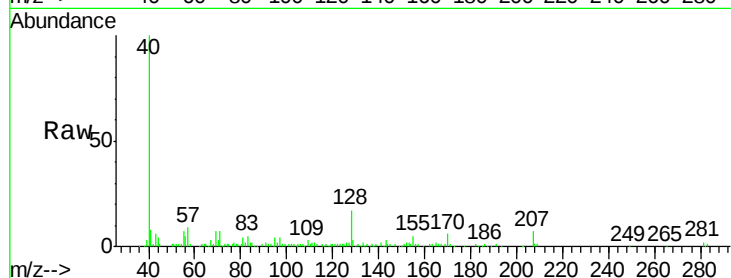
Tot Ion:128 Resp: 18186

Ion Ratio Lower Upper

128 100

127 20.3 10.1 15.1#

129 12.1 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

