

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032619\
 Data File : VN054686.D
 Acq On : 26 Mar 2019 9:42
 Operator : JC/SP
 Sample : VN0326MBL01
 Misc : 5.00µg/10mL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 27 04:04:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	515656	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	804266	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	668398	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	231846	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	328137	51.16	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.32%	
35) Dibromofluoromethane	7.59	113	253890	49.00	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.00%	
50) Toluene-d8	10.09	98	956702	49.11	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.22%	
62) 4-Bromofluorobenzene	12.40	95	288135	43.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	86.94%	

Target Compounds

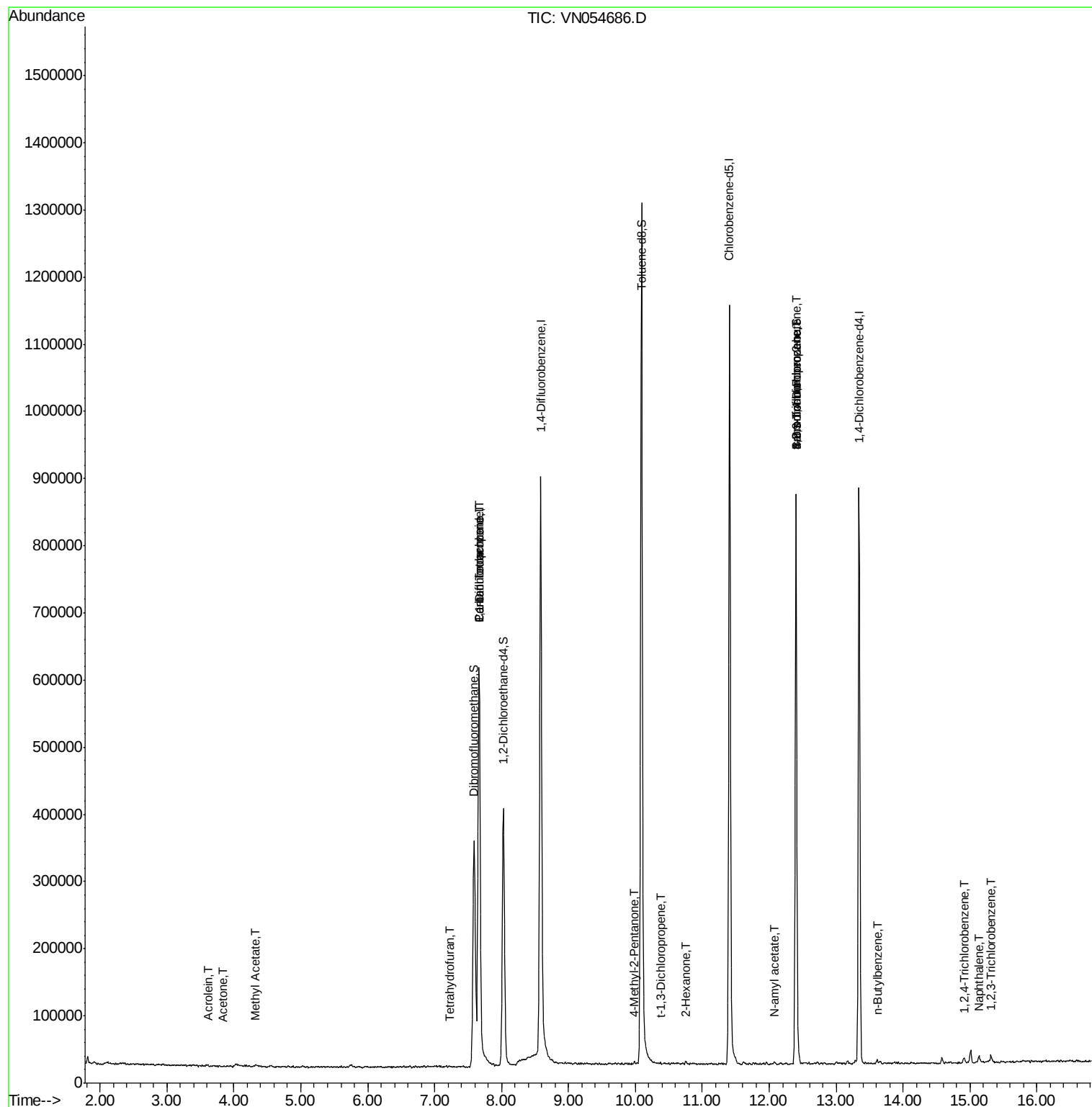
						Qvalue
13) Acrolein	3.60	56	247	0.461	ug/l #	1
16) Acetone	3.82	43	1183	0.613	ug/l #	38
18) Methyl Acetate	4.33	43	1466	0.341	ug/l	96
29) Tetrahydrofuran	7.24	42	913	0.570	ug/l #	30
31) Cyclohexane	7.66	56	11088	Below Cal	#	3
36) 1,1-Dichloropropene	7.66	75	37769	5.023	ug/l #	49
38) Carbon Tetrachloride	7.66	117	47283	6.470	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	2083	0.416	ug/l #	68
53) t-1,3-Dichloropropene	10.38	75	30	2.236	ug/l #	42
59) 2-Hexanone	10.76	43	2752	0.842	ug/l	97
71) Bromoform	12.41	173	279	2.300	ug/l #	1
74) N-amyl acetate	12.07	43	1545	0.288	ug/l #	81
76) 1,2,3-Trichloropropane	12.40	75	151992	41.313	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	151992	136.558	ug/l #	11
89) n-Butylbenzene	13.62	91	3801	0.327	ug/l	91
93) 1,2,4-Trichlorobenzene	14.91	180	2680	0.723	ug/l	88
94) Hexachlorobutadiene	15.01	225	4081	Below Cal		94
95) Naphthalene	15.13	128	7316	0.885	ug/l	94
96) 1,2,3-Trichlorobenzene	15.31	180	2965	0.804	ug/l	98

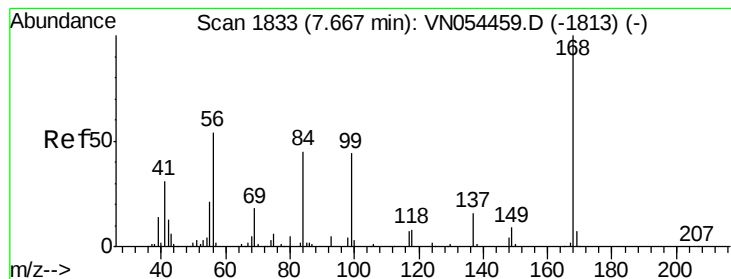
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054686.D

Acq: 26 Mar 2019 9:42

Instrument :

MSVOA_N

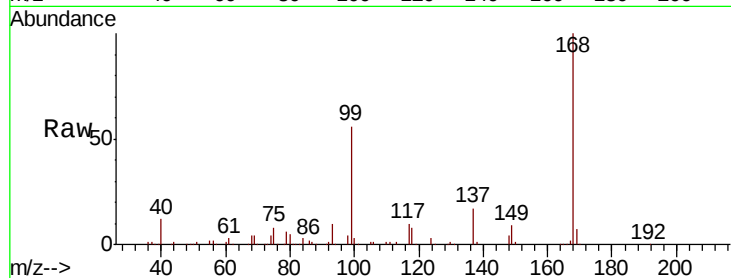
ClientSampled :

Tot Ion:168 Resp: 515656

Ion Ratio Lower Upper

168 100

99 56.5 37.1 55.7#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.66

200000

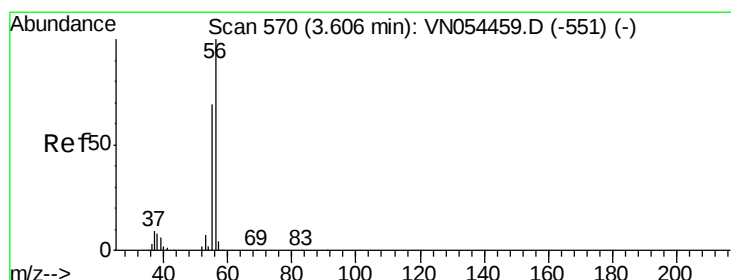
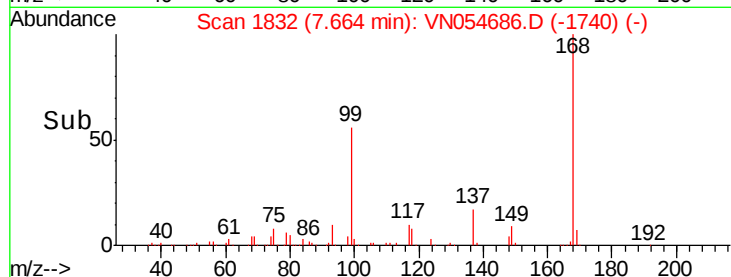
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.461 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN054686.D

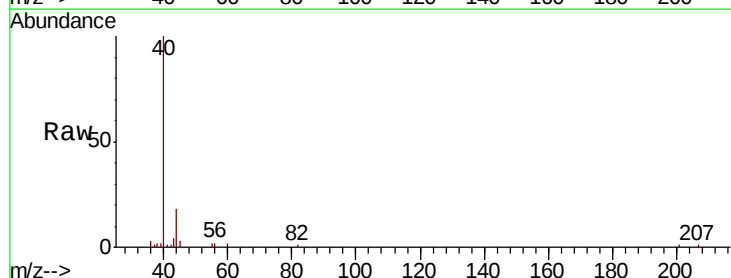
Acq: 26 Mar 2019 9:42

Tgt Ion: 56 Resp: 247

Ion Ratio Lower Upper

56 100

55 183.4 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN

Ion 55.00 (54.70 to 55.70): VN

3.60

400

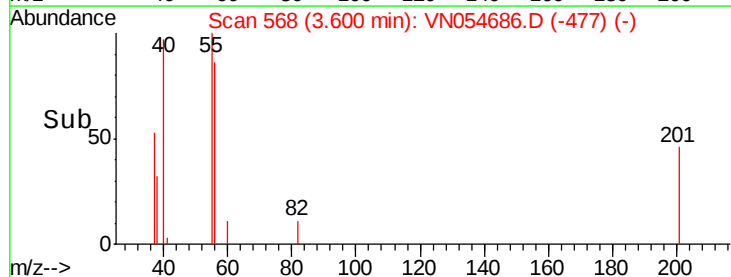
300

200

100

0

Time-->

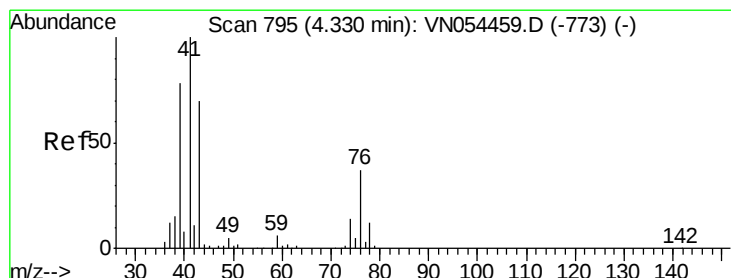
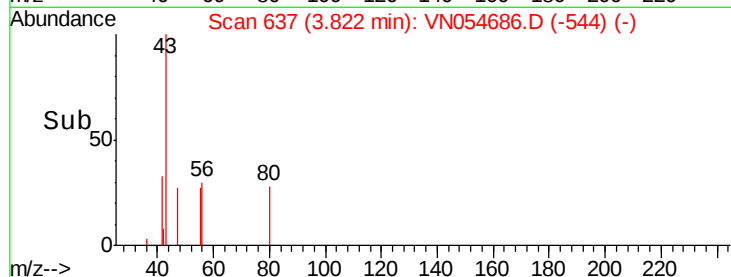
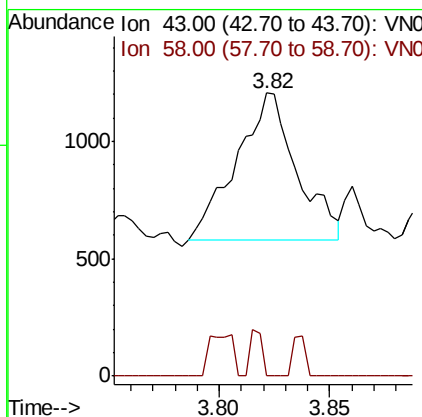
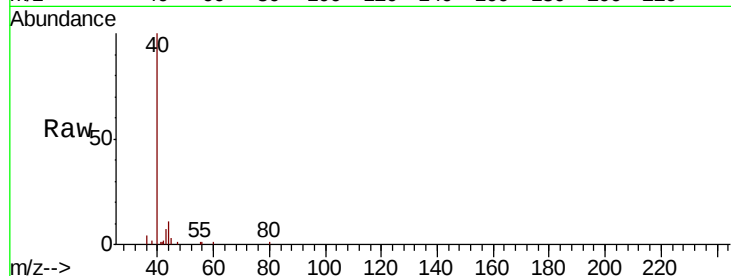




#16
Acetone
Concen: 0.613 ug/l
RT: 3.82 min Scan# 637
Delta R.T. 0.00 min
Lab File: VN054686.D
Acq: 26 Mar 2019 9:42

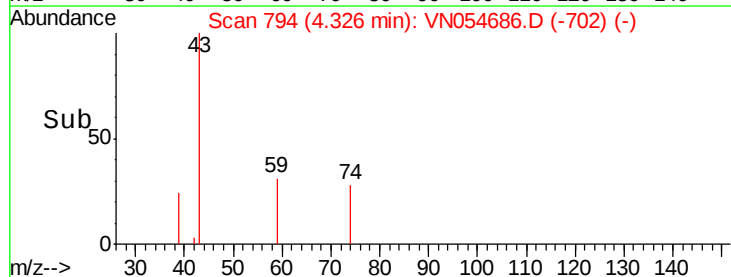
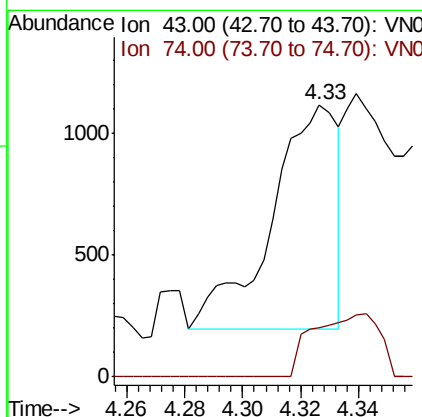
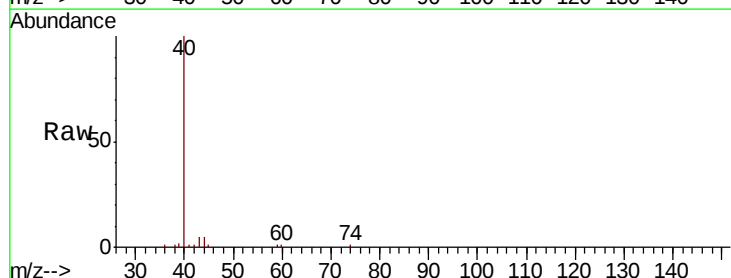
Instrument :
MSVOA_N
ClientSampled :

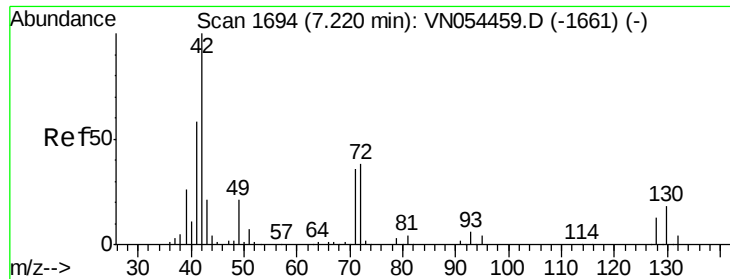
Tot Ion: 43 Resp: 1183
Ion Ratio Lower Upper
43 100
58 0.0 29.9 44.9#



#18
Methyl Acetate
Concen: 0.341 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN054686.D
Acq: 26 Mar 2019 9:42

Tgt Ion: 43 Resp: 1466
Ion Ratio Lower Upper
43 100
74 28.0 20.8 31.2





#29

Tetrahydrofuran

Concen: 0.570 ug/l

RT: 7.24 min Scan# 1699

Delta R.T. 0.02 min

Lab File: VN054686.D

Acq: 26 Mar 2019 9:42

Instrument :

MSVOA_N

ClientSampled :

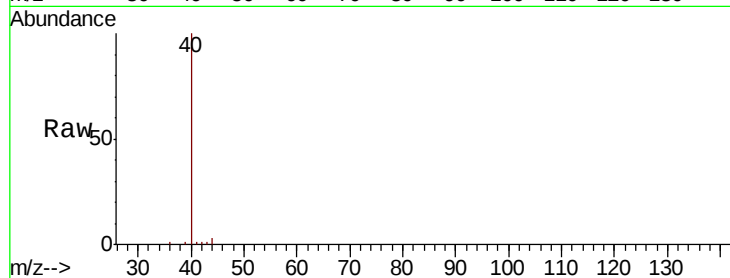
Tot Ion: 42 Resp: 913

Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

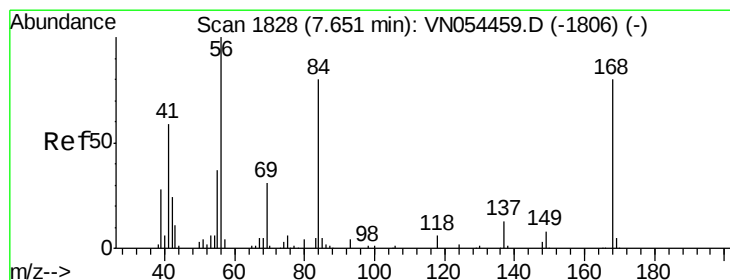
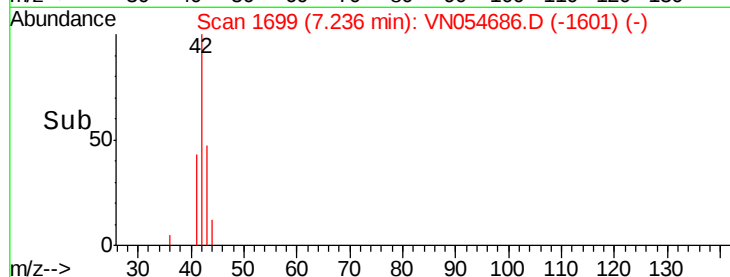
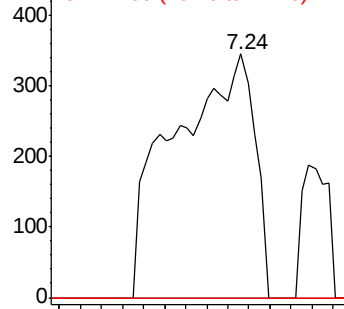
71 0.0 36.2 54.2#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN054686.D

Acq: 26 Mar 2019 9:42

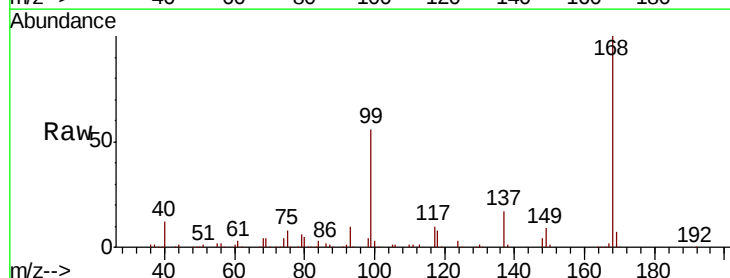
Tgt Ion: 56 Resp: 11088

Ion Ratio Lower Upper

56 100

69 190.7 27.8 41.6#

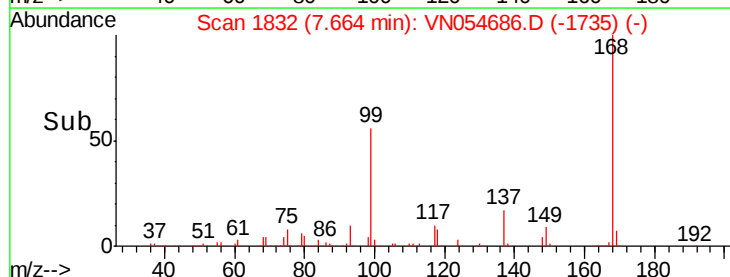
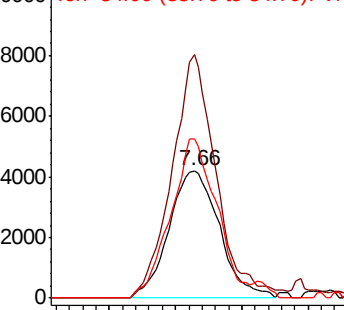
84 124.6 74.6 111.8#

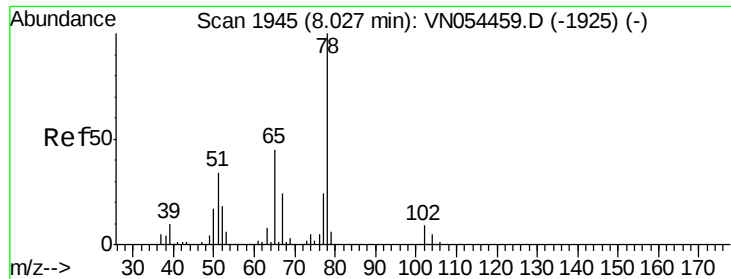


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

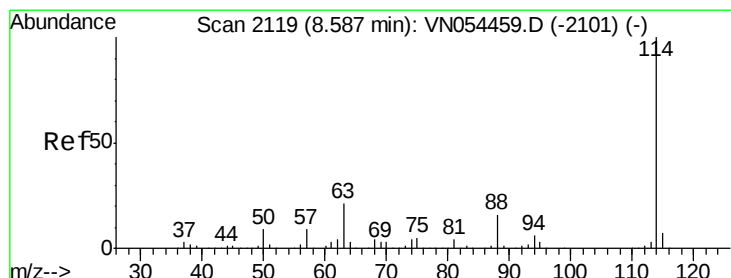
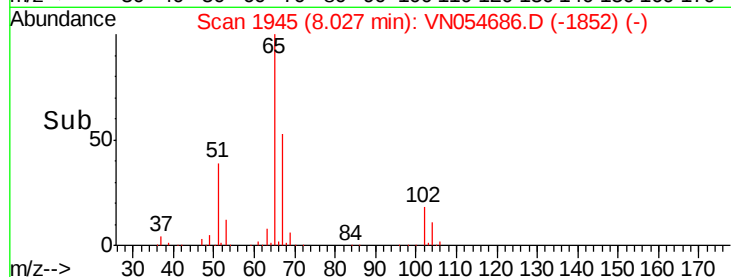
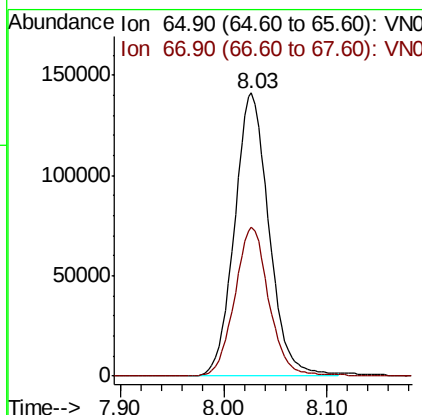
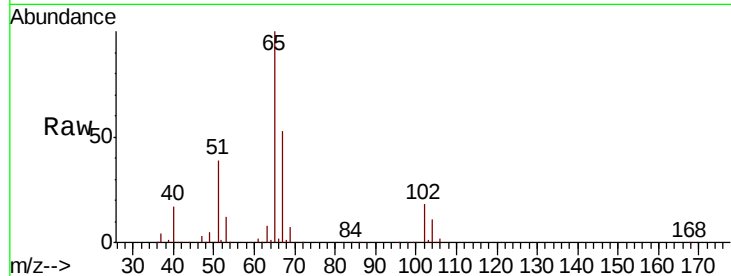




#33
 1,2-Dichloroethane-d4
 Concen: 51.160 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054686.D
 Acq: 26 Mar 2019 9:42

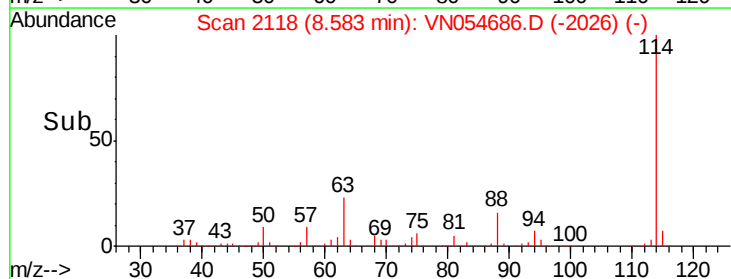
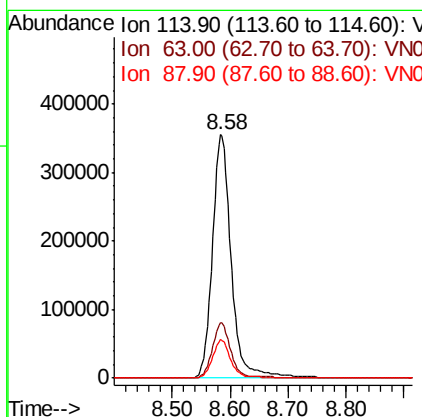
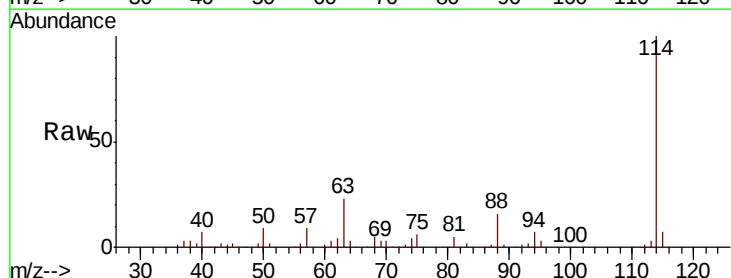
Instrument :
 MSVOA_N
 ClientSampleId :

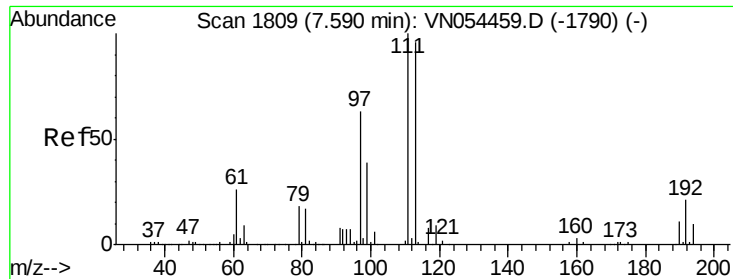
Tot Ion: 65 Resp: 328137
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN054686.D
 Acq: 26 Mar 2019 9:42

Tgt Ion: 114 Resp: 804266
 Ion Ratio Lower Upper
 114 100
 63 22.7 0.0 35.2
 88 15.8 0.0 30.2

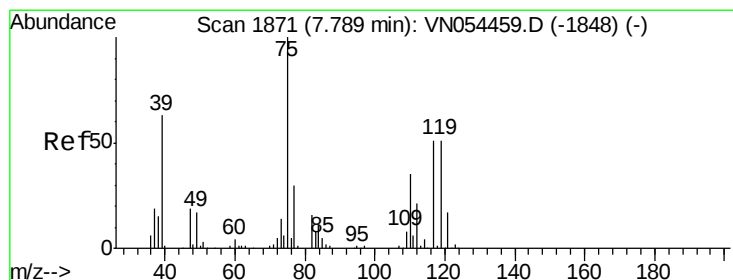
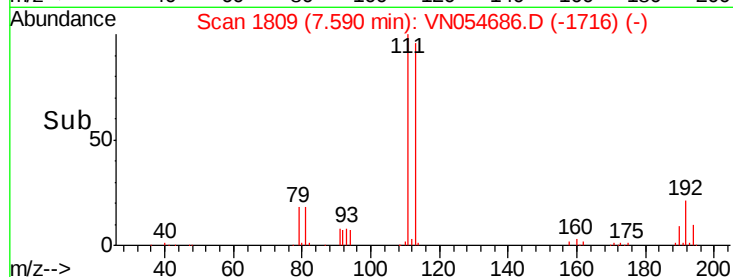
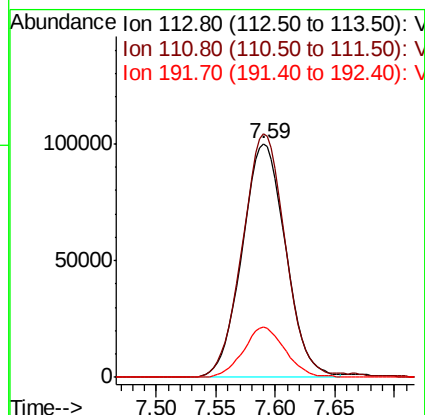
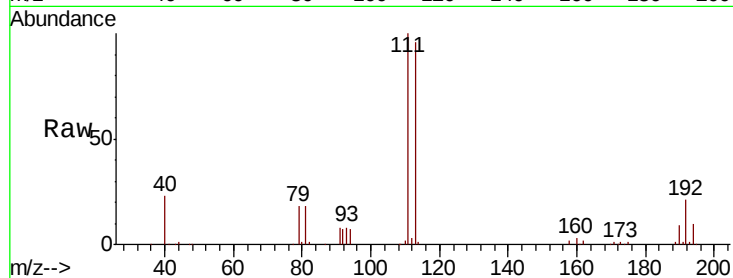




#35
 Dibromofluoromethane
 Concen: 49.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054686.D
 Acq: 26 Mar 2019 9:42

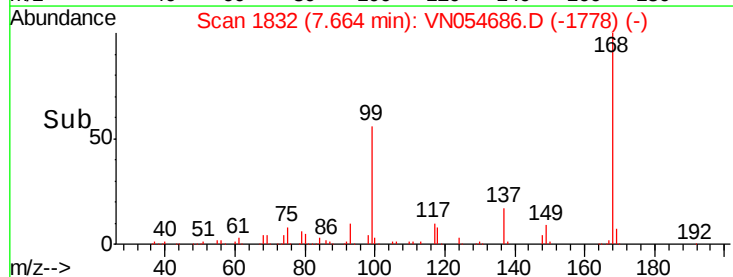
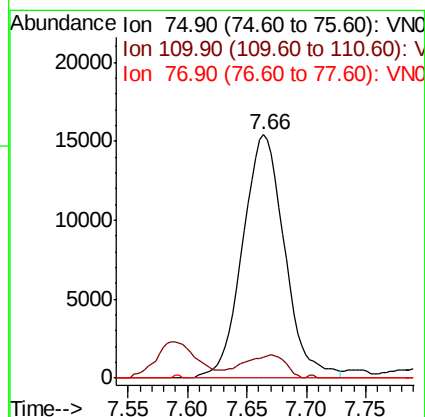
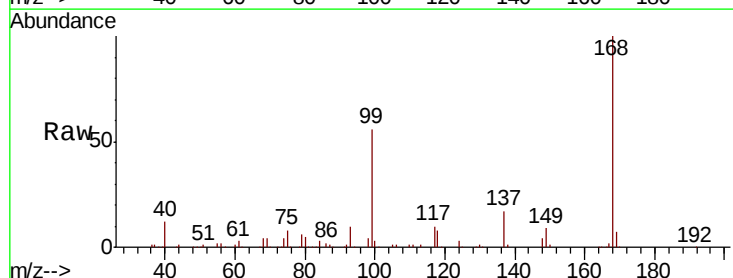
Instrument :
 MSVOA_N
 ClientSampled :

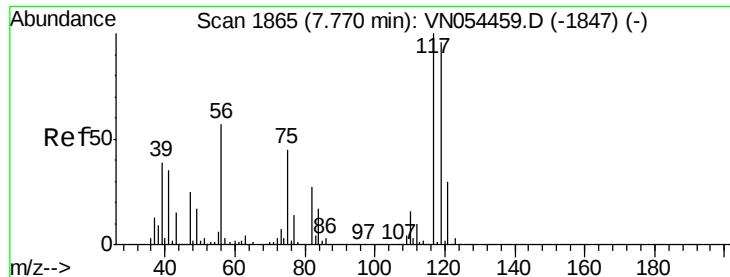
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.7	82.2	123.4
192	20.8	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 5.023 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054686.D
 Acq: 26 Mar 2019 9:42

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.9	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 6.470 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN054686.D

Acq: 26 Mar 2019 9:42

Instrument :

MSVOA_N

ClientSampled :

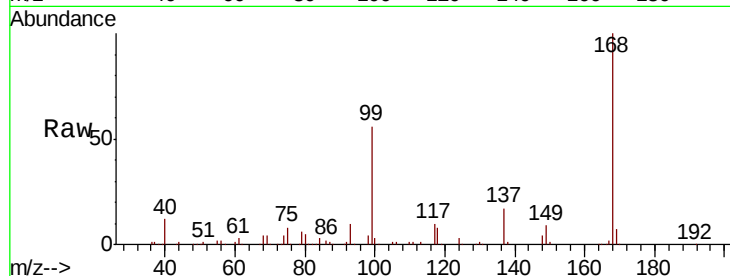
Tot Ion:117 Resp: 47283

Ion Ratio Lower Upper

117 100

119 5.1 76.3 114.5#

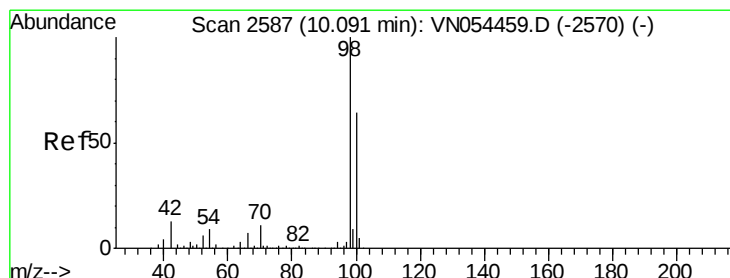
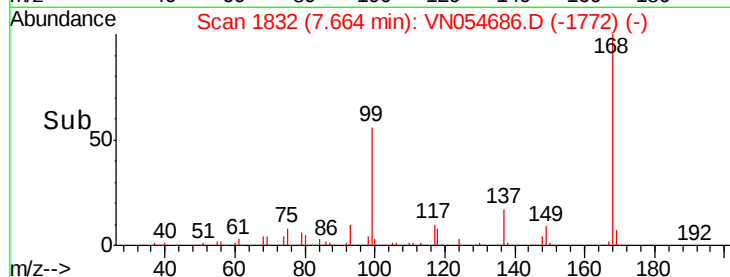
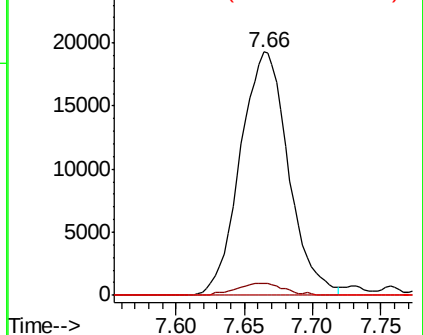
121 0.0 24.6 36.8#



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



#50

Toluene-d8

Concen: 49.114 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054686.D

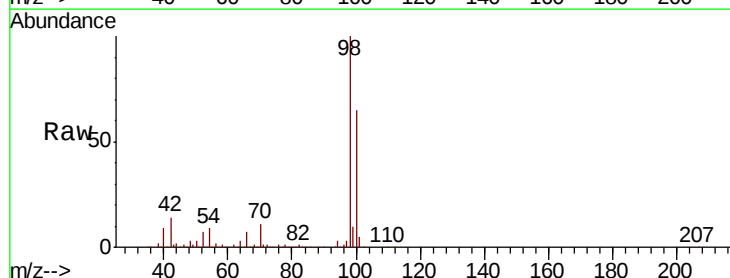
Acq: 26 Mar 2019 9:42

Tgt Ion: 98 Resp: 956702

Ion Ratio Lower Upper

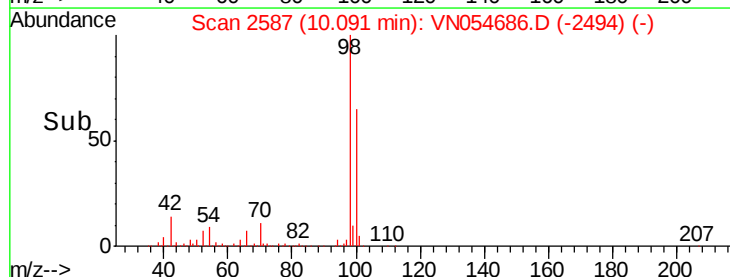
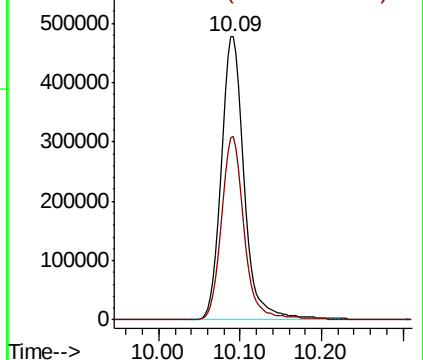
98 100

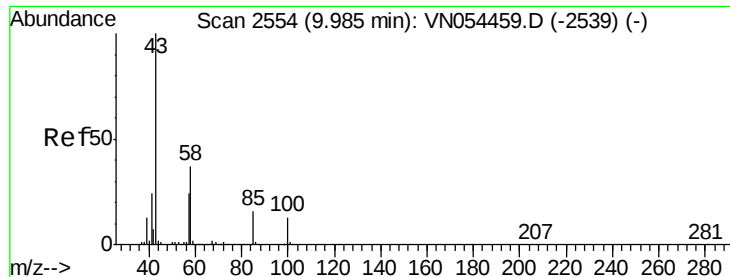
100 64.4 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

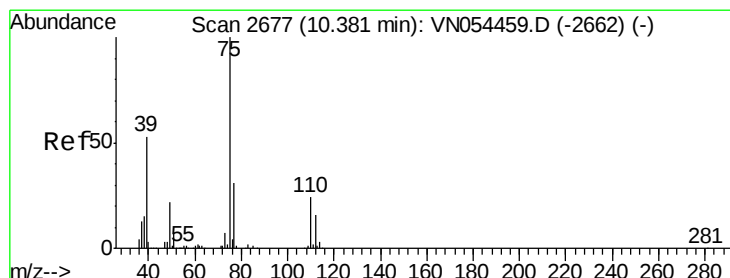
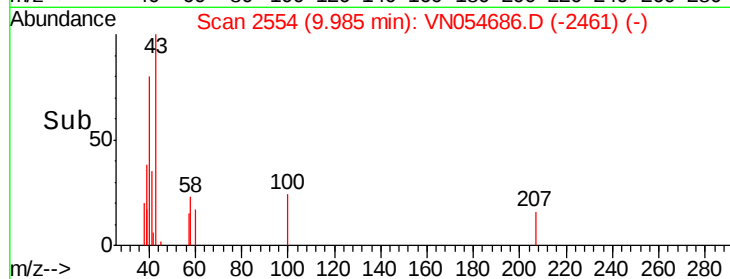
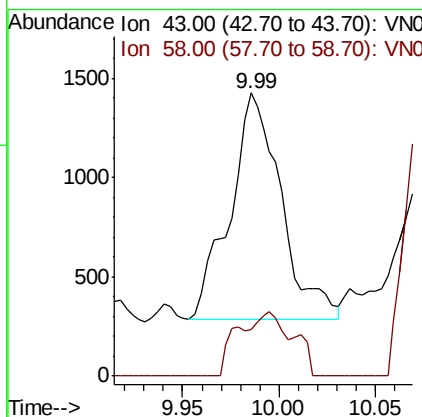
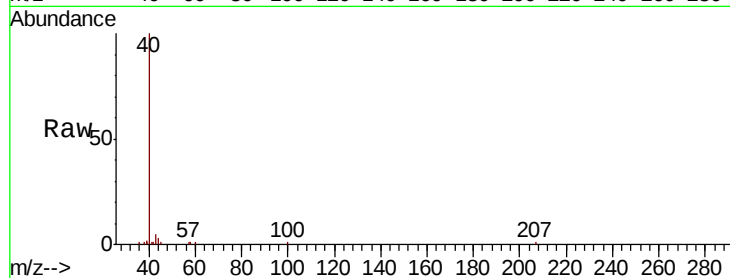




#51
 4-Methyl-2-Pentanone
 Concen: 0.416 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. 0.00 min
 Lab File: VN054686.D
 Acq: 26 Mar 2019 9:42

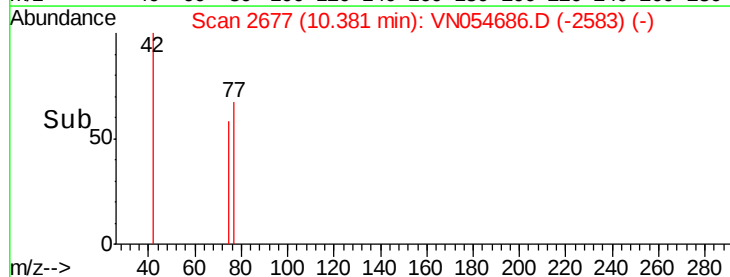
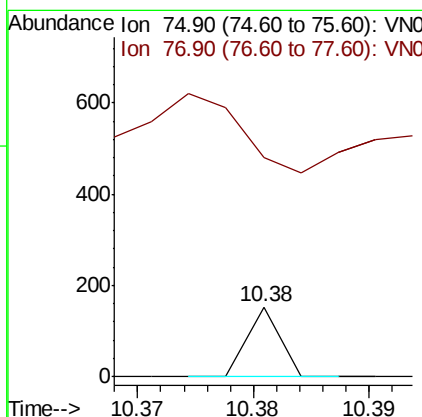
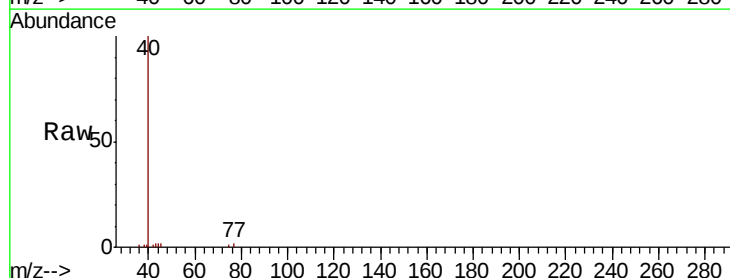
Instrument :
 MSVOA_N
 ClientSampleId :

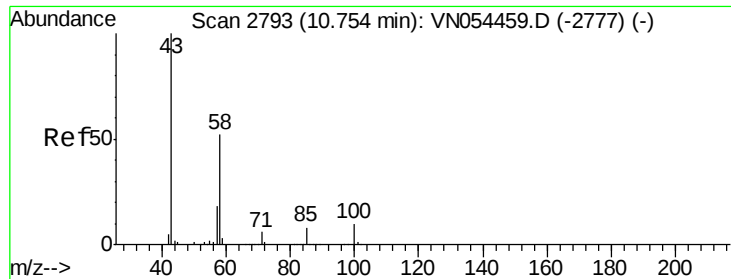
Tot Ion: 43 Resp: 2083
 Ion Ratio Lower Upper
 43 100
 58 20.2 31.8 47.6#



#53
 t-1,3-Dichloropropene
 Concen: 2.236 ug/l
 RT: 10.38 min Scan# 2677
 Delta R.T. 0.00 min
 Lab File: VN054686.D
 Acq: 26 Mar 2019 9:42

Tgt Ion: 75 Resp: 30
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.8 38.8#





#59

2-Hexanone

Concen: 0.842 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VN054686.D

Acq: 26 Mar 2019 9:42

Instrument :

MSVOA_N

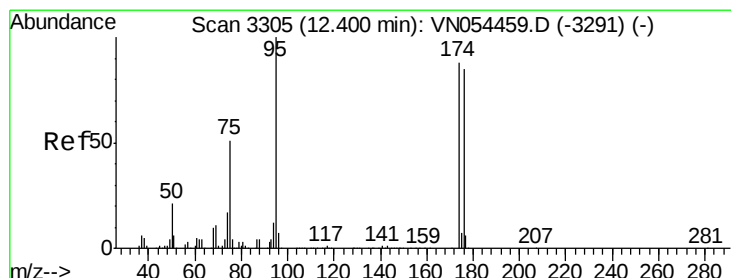
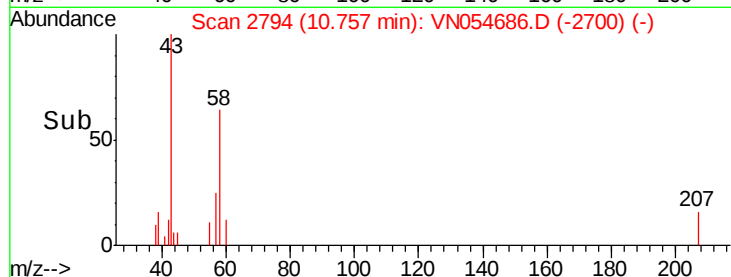
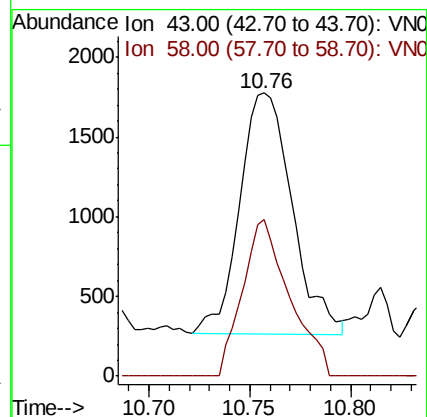
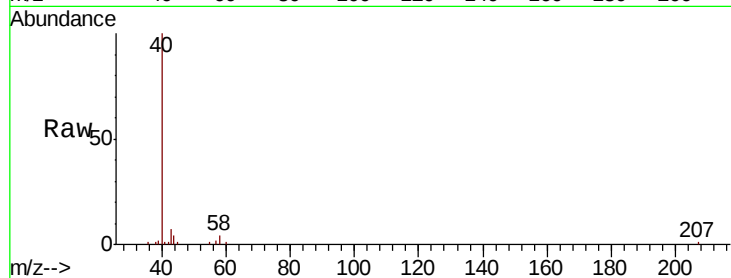
ClientSampleId :

Tot Ion: 43 Resp: 2752

Ion Ratio Lower Upper

43 100

58 58.1 28.0 83.9



#62

4-Bromofluorobenzene

Concen: 43.470 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054686.D

Acq: 26 Mar 2019 9:42

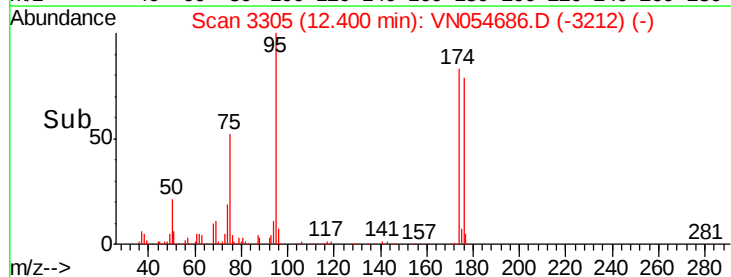
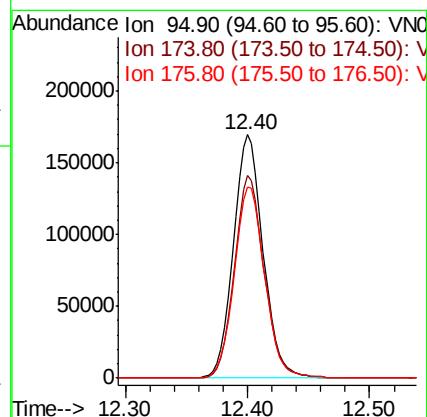
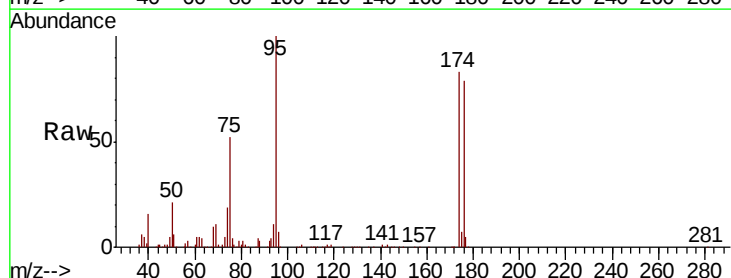
Tgt Ion: 95 Resp: 288135

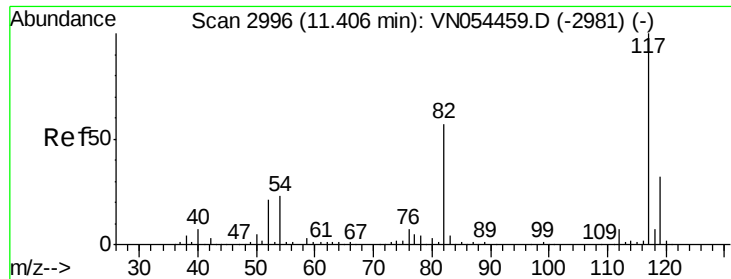
Ion Ratio Lower Upper

95 100

174 83.4 0.0 191.0

176 80.6 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: VN054686.D

Acq: 26 Mar 2019 9:42

Instrument :

MSVOA_N

ClientSampleId :

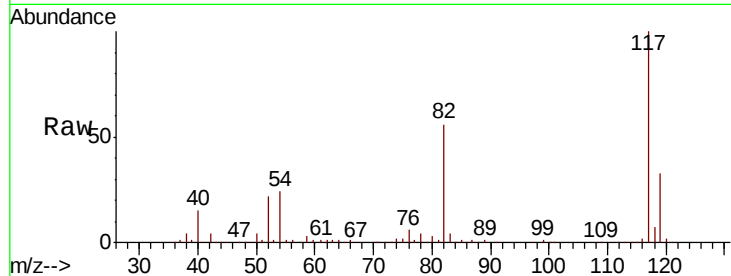
Tot Ion:117 Resp: 668398

Ion Ratio Lower Upper

117 100

82 56.5 40.0 60.0

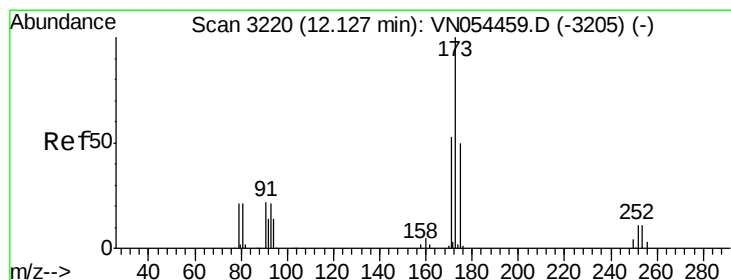
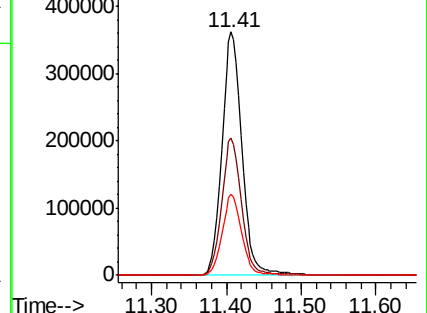
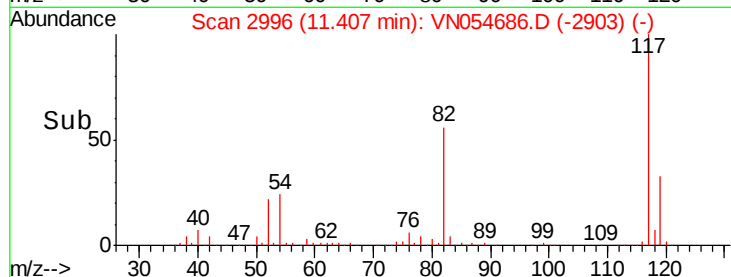
119 33.4 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 2.300 ug/l

RT: 12.41 min Scan# 3308

Delta R.T. 0.28 min

Lab File: VN054686.D

Acq: 26 Mar 2019 9:42

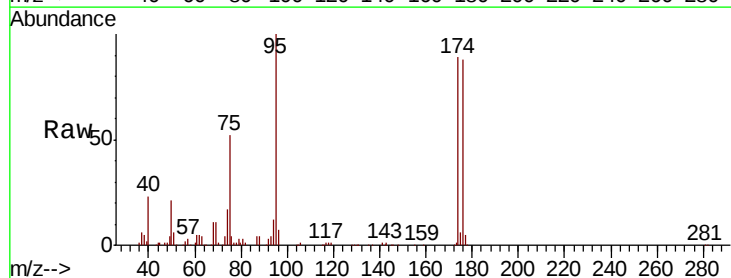
Tgt Ion:173 Resp: 279

Ion Ratio Lower Upper

173 100

175 5931.9 24.4 73.2#

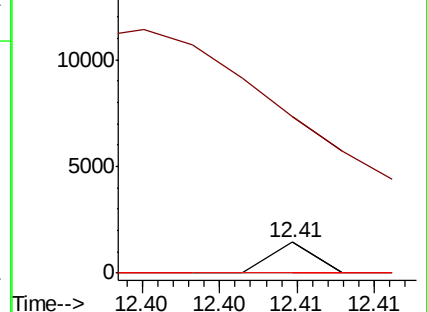
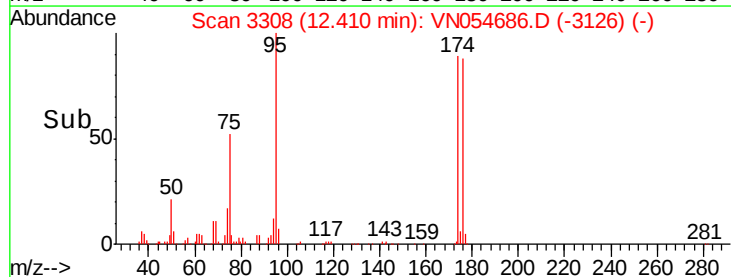
254 0.0 0.1 0.1#

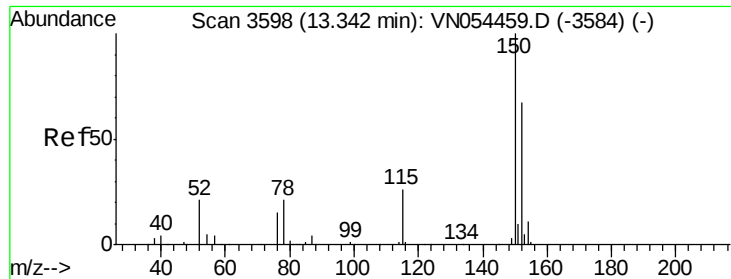


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



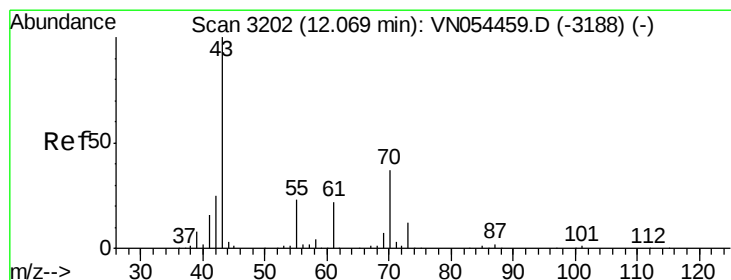
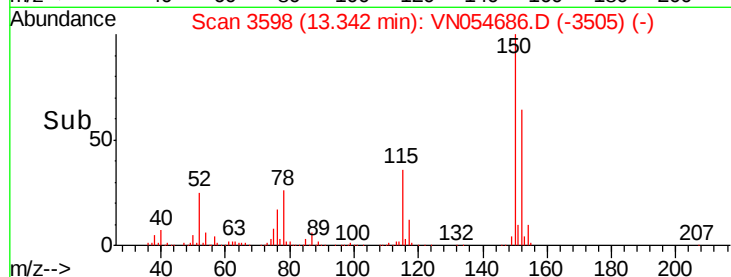
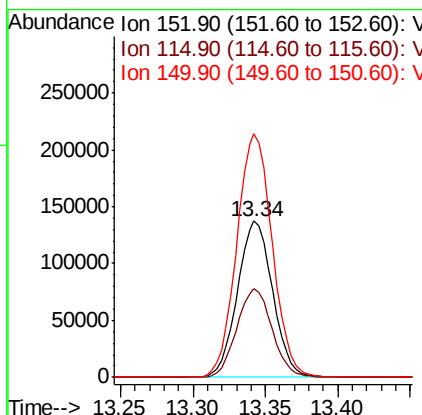
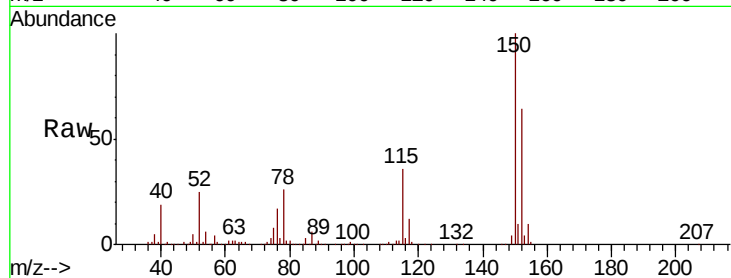


#72

1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN054686.D
Acq: 26 Mar 2019 9:42

Instrument :
MSVOA_N
ClientSampled :

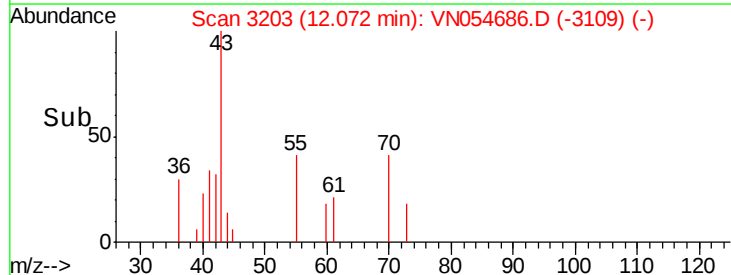
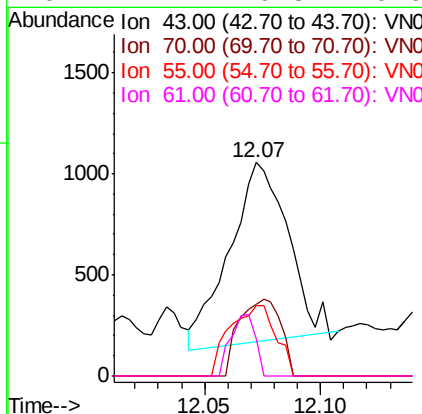
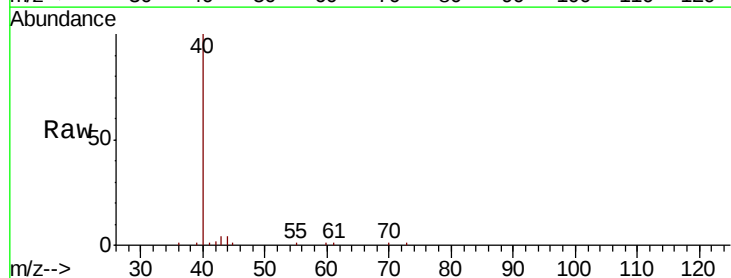
Tot Ion:152 Resp: 231846
Ion Ratio Lower Upper
152 100
115 56.7 27.2 81.6
150 157.1 0.0 349.2

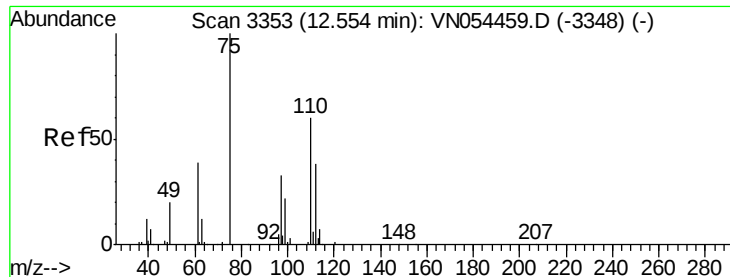


#74

N-ethyl acetate
Concen: 0.288 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VN054686.D
Acq: 26 Mar 2019 9:42

Tgt Ion: 43 Resp: 1545
Ion Ratio Lower Upper
43 100
70 30.5 35.4 53.0#
55 31.2 19.8 29.6#
61 14.2 19.8 29.6#





#76

1,2,3-Trichloropropane

Concen: 41.313 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054686.D

Acq: 26 Mar 2019 9:42

Instrument :

MSVOA_N

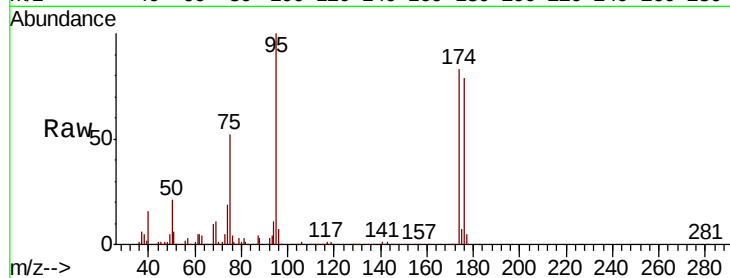
ClientSampled :

Tot Ion: 75 Resp: 151992

Ion Ratio Lower Upper

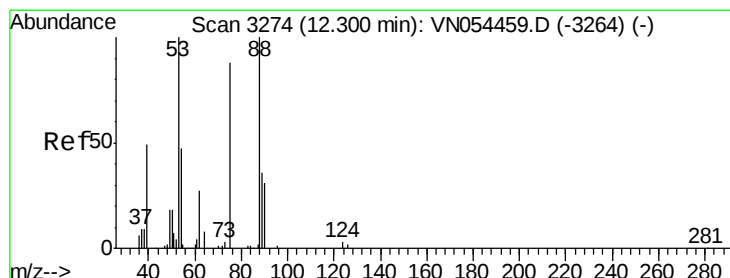
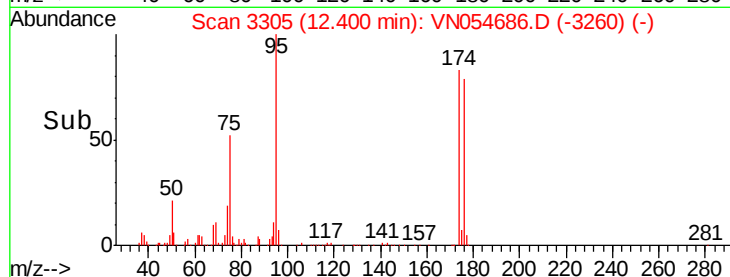
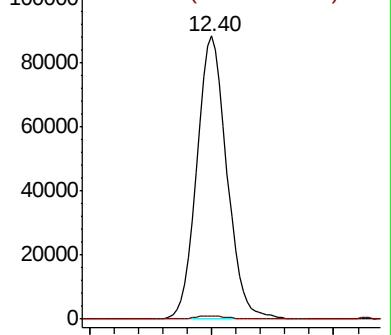
75 100

77 1.1 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: 136.558 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054686.D

Acq: 26 Mar 2019 9:42

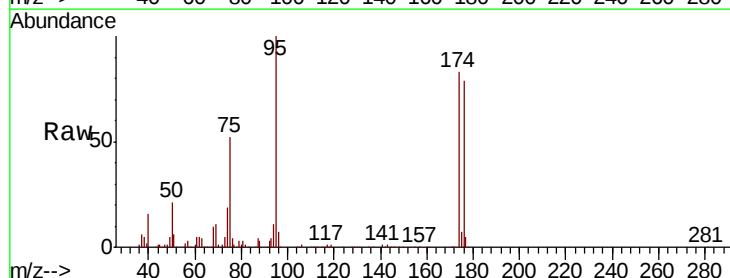
Tgt Ion: 75 Resp: 151992

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

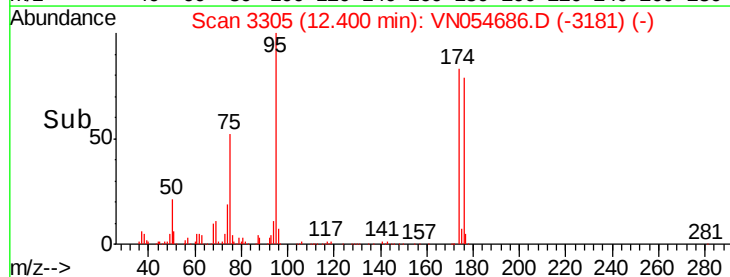
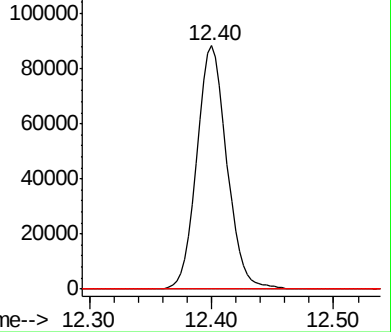
89 0.0 39.2 58.8#

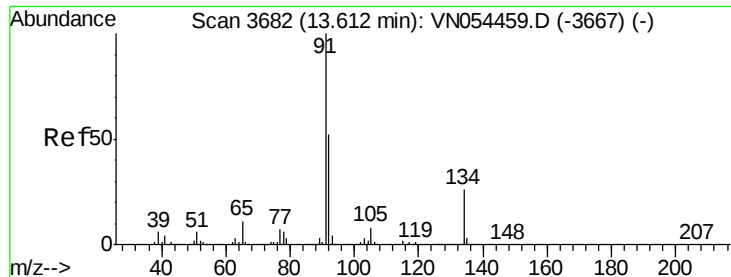


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

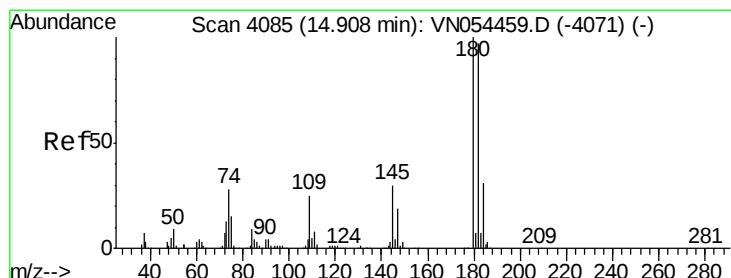
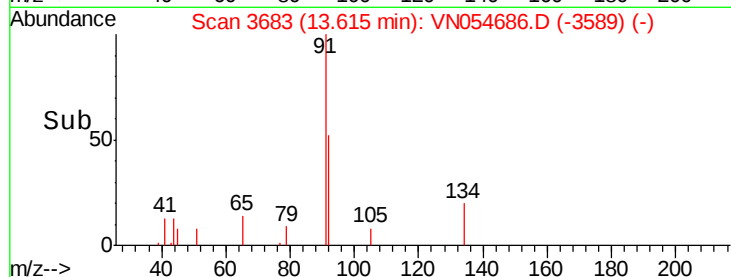
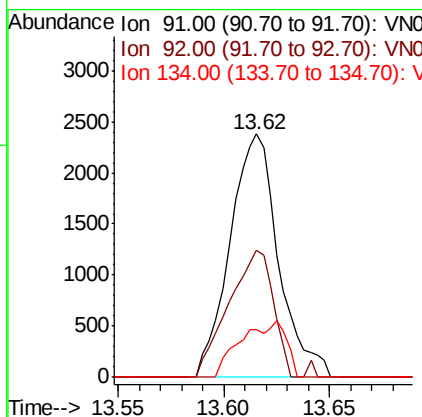
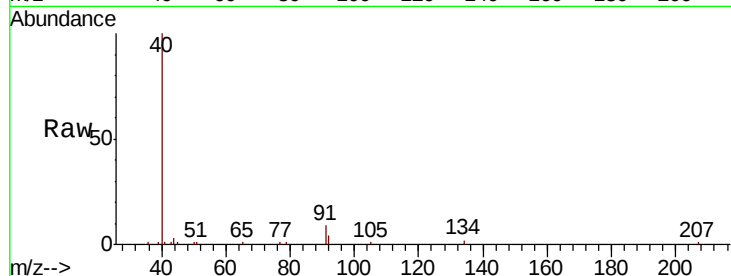




#89
n-Butylbenzene
Concen: 0.327 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054686.D
Acq: 26 Mar 2019 9:42

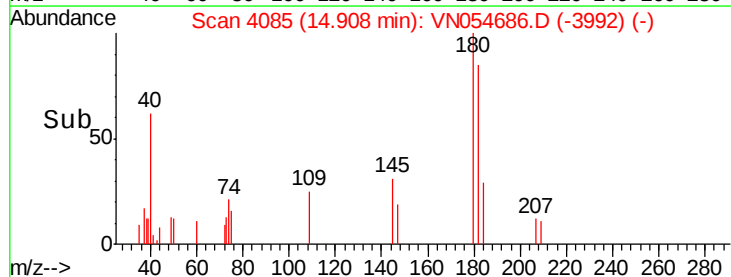
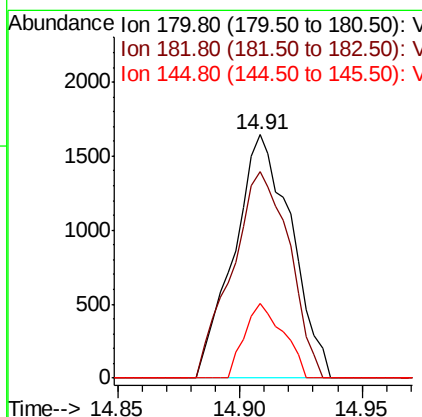
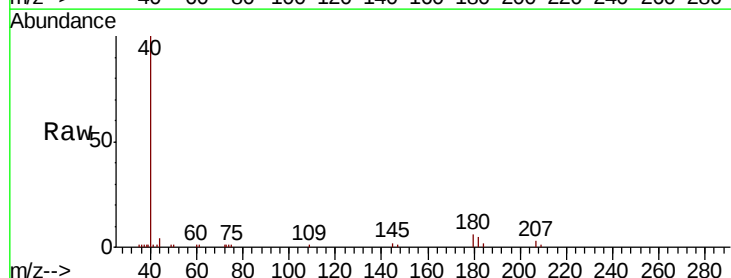
Instrument :
MSVOA_N
ClientSampled :

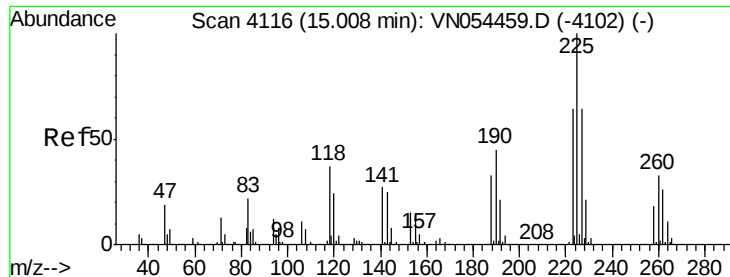
Tot Ion: 91 Resp: 3801
Ion Ratio Lower Upper
91 100
92 47.9 26.2 78.6
134 21.6 14.3 42.9



#93
1,2,4-Trichlorobenzene
Concen: 0.723 ug/l
RT: 14.91 min Scan# 4085
Delta R.T. 0.00 min
Lab File: VN054686.D
Acq: 26 Mar 2019 9:42

Tgt Ion: 180 Resp: 2680
Ion Ratio Lower Upper
180 100
182 84.7 48.0 144.2
145 20.7 14.2 42.8





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN054686.D

Acq: 26 Mar 2019 9:42

Instrument :

MSVOA_N

ClientSampled :

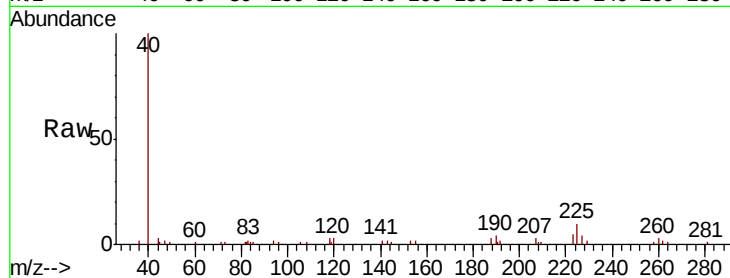
Tot Ion:225 Resp: 4081

Ion Ratio Lower Upper

225 100

223 60.8 31.1 93.5

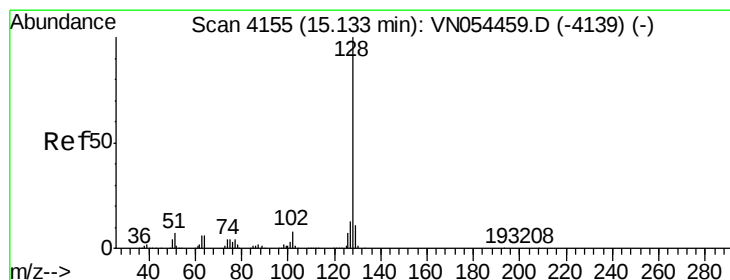
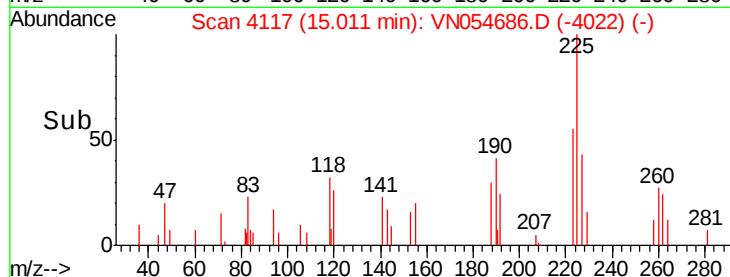
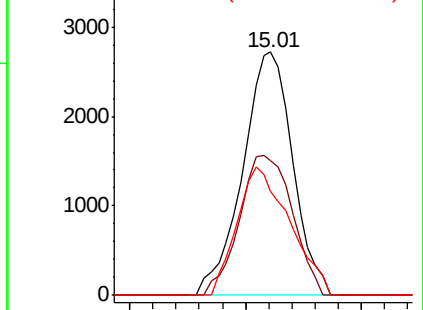
227 55.5 31.9 95.9



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.885 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN054686.D

Acq: 26 Mar 2019 9:42

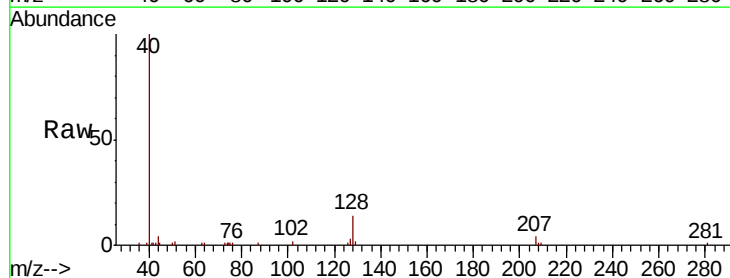
Tgt Ion:128 Resp: 7316

Ion Ratio Lower Upper

128 100

127 15.0 10.1 15.1

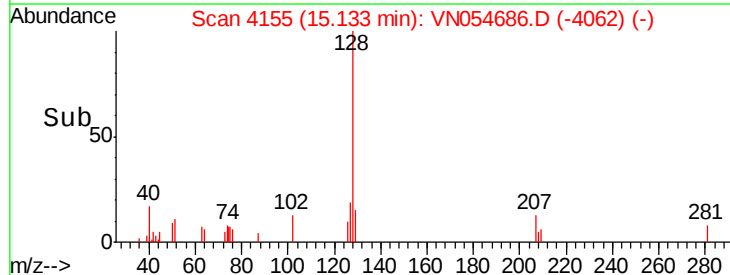
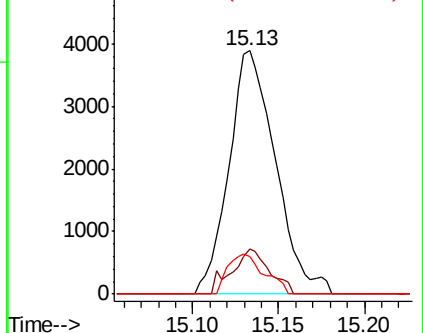
129 12.9 8.7 13.1

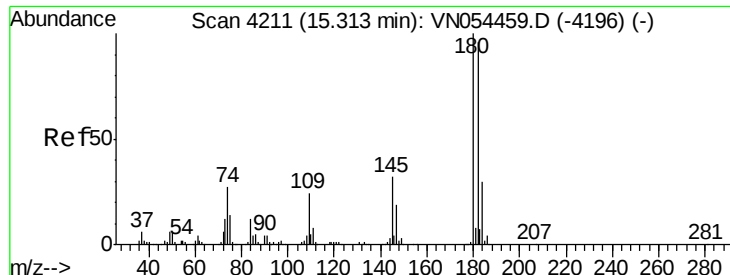


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96
 1,2,3-Trichlorobenzene
 Concen: 0.804 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. 0.00 min
 Lab File: VN054686.D
 Acq: 26 Mar 2019 9:42

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.5	142.6
145	31.8	14.8	44.3

