

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031819\
 Data File : VN054404.D
 Acq On : 18 Mar 2019 19:55
 Operator : JC/SP
 Sample : K1972-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 19 05:15:27 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	7.66	168	1816453	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2604313	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2186363	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	833244	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	871651	45.18	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.36%	
35) Dibromofluoromethane	7.59	113	789686	47.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.02%	
50) Toluene-d8	10.09	98	3001231	48.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.76%	
62) 4-Bromofluorobenzene	12.40	95	917732	42.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	84.56%	

Target Compounds

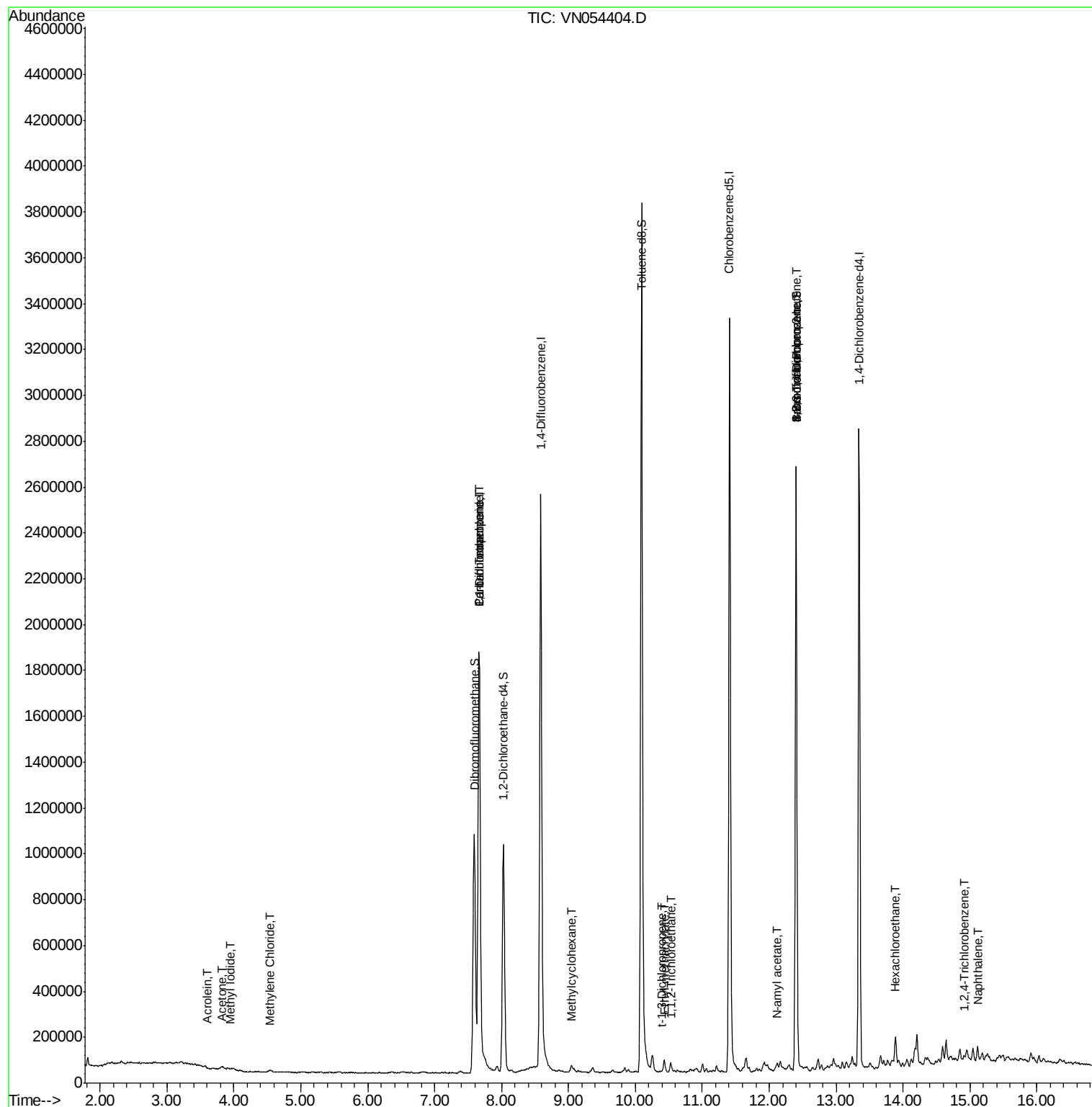
						Qvalue
10) Methyl Iodide	3.94	142	78	1.500	ug/l #	45
13) Acrolein	3.60	56	679	0.542	ug/l #	14
16) Acetone	3.82	43	15912	2.881	ug/l	99
20) Methylene Chloride	4.55	84	4012	0.221	ug/l	94
31) Cyclohexane	7.66	56	26586	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	106866	4.456	ug/l #	48
38) Carbon Tetrachloride	7.67	117	149052	5.926	ug/l #	16
39) Methylcyclohexane	9.04	83	6750	0.229	ug/l #	50
53) t-1,3-Dichloropropene	10.38	75	118	1.990	ug/l #	41
55) 1,1,2-Trichloroethane	10.53	97	18298	1.152	ug/l #	19
56) Ethyl methacrylate	10.43	69	6435	0.340	ug/l #	9
71) Bromoform	12.41	173	5761	2.764	ug/l #	1
74) N-amyl acetate	12.11	43	4371	0.295	ug/l #	59
76) 1,2,3-Trichloropropane	12.40	75	433476	35.376	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	433476	120.933	ug/l #	11
90) Hexachloroethane	13.89	117	6224	0.647	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.91	180	1051	2.573	ug/l #	1
95) Naphthalene	15.13	128	4513	3.585	ug/l #	92

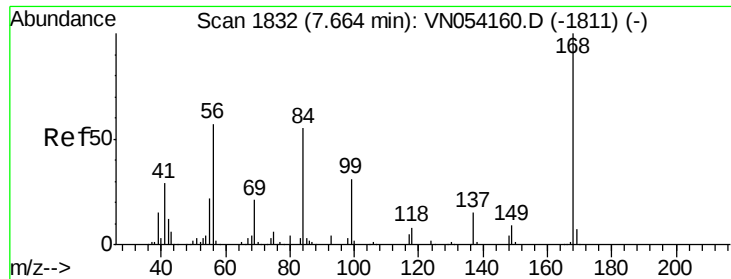
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN031819\
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Quant Time: Mar 19 05:15:27 2019
Quant Method : Z:\V0ASRV\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: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054404.D

Acq: 18 Mar 2019 19:55

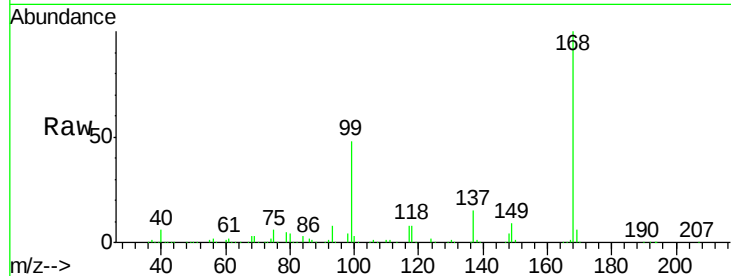
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 1816453

Ion Ratio Lower Upper

168 100

99 47.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

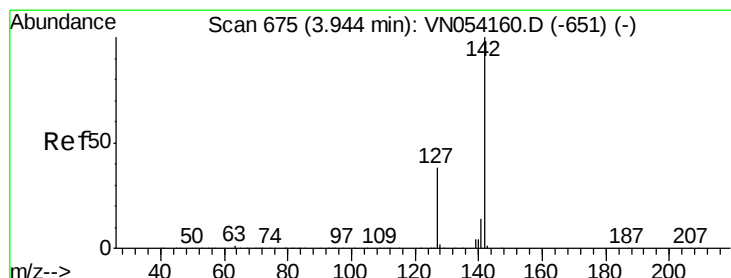
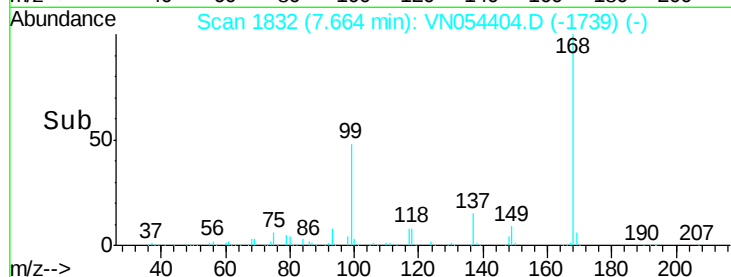
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80



#10

Methyl Iodide

Concen: 1.500 ug/l

RT: 3.94 min Scan# 675

Delta R.T. 0.00 min

Lab File: VN054404.D

Acq: 18 Mar 2019 19:55

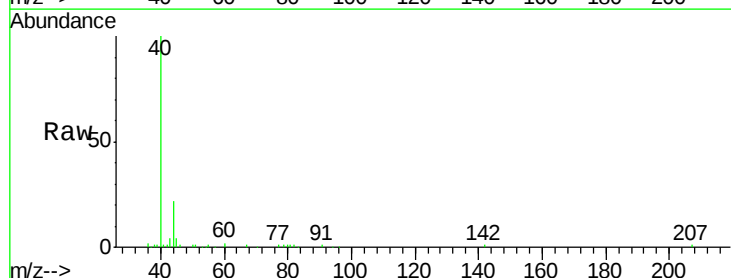
Tgt Ion:142 Resp: 78

Ion Ratio Lower Upper

142 100

127 0.0 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

3.94

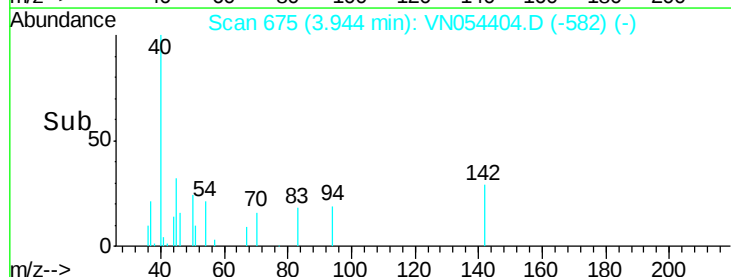
300

200

100

0

Time--> 3.93 3.94 3.94 3.95

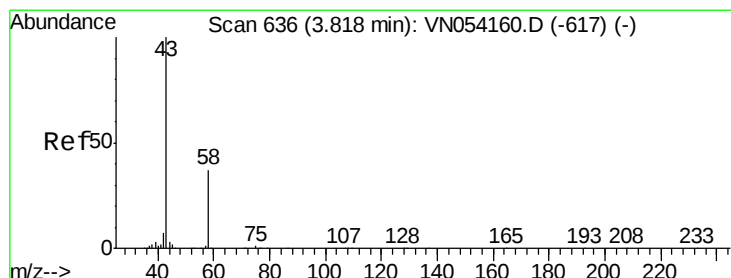
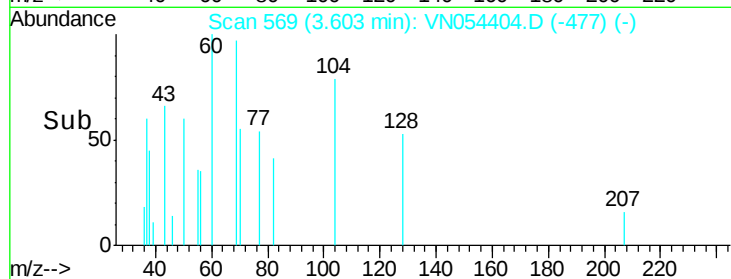
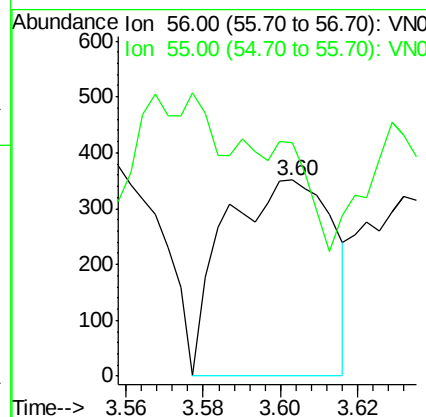
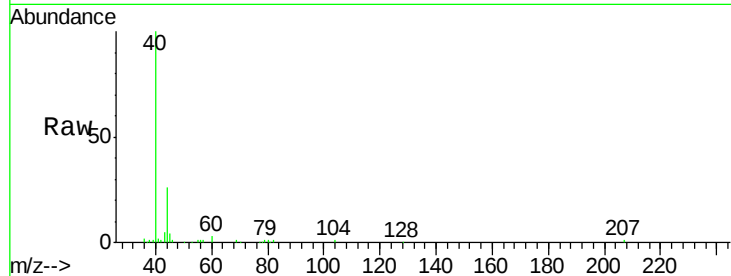




#13
Acrolein
Concen: 0.542 ug/l
RT: 3.60 min Scan# 569
Delta R.T. -0.00 min
Lab File: VN054404.D
Acq: 18 Mar 2019 19:55

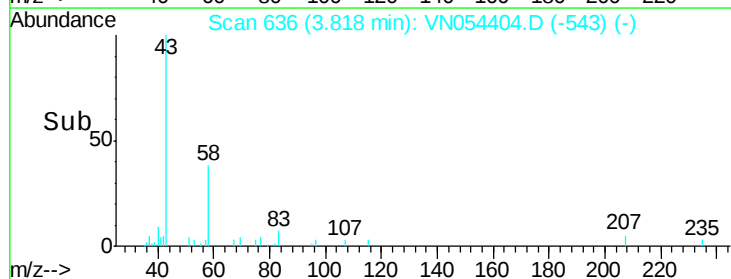
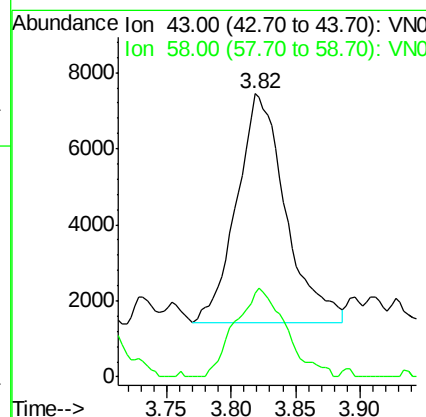
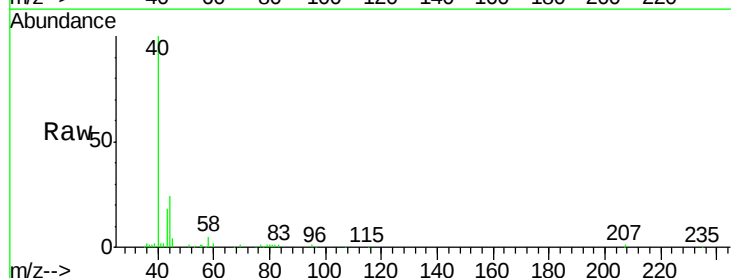
Instrument :
MSVOA_N
ClientSampled :

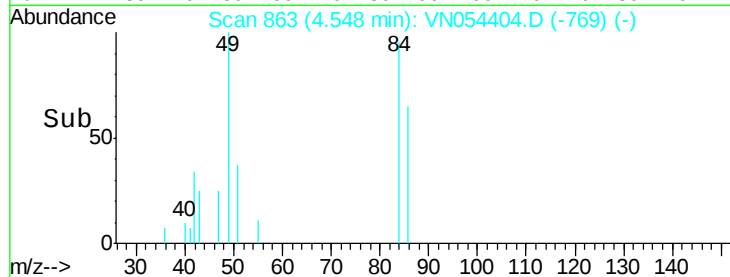
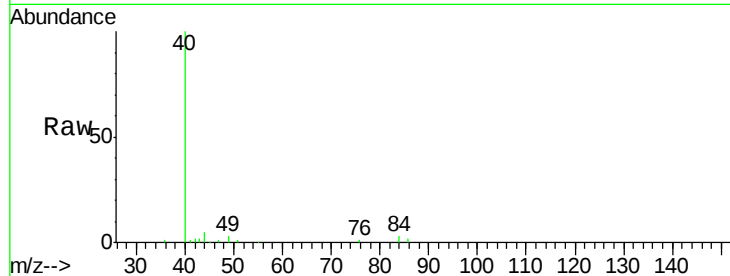
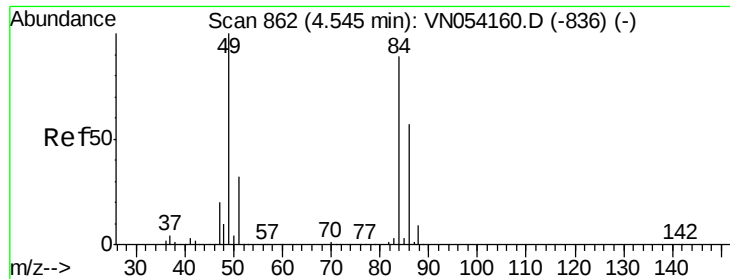
Tot Ion: 56 Resp: 679
Ion Ratio Lower Upper
56 100
55 0.0 56.7 85.1#



#16
Acetone
Concen: 2.881 ug/l
RT: 3.82 min Scan# 636
Delta R.T. 0.00 min
Lab File: VN054404.D
Acq: 18 Mar 2019 19:55

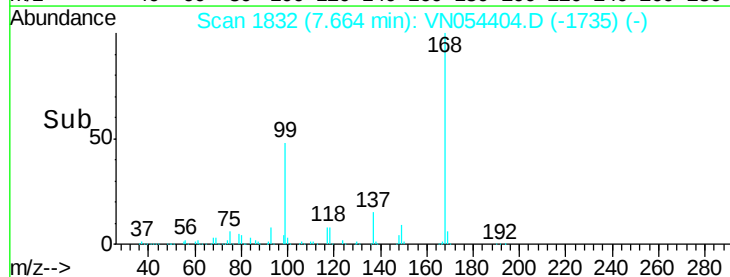
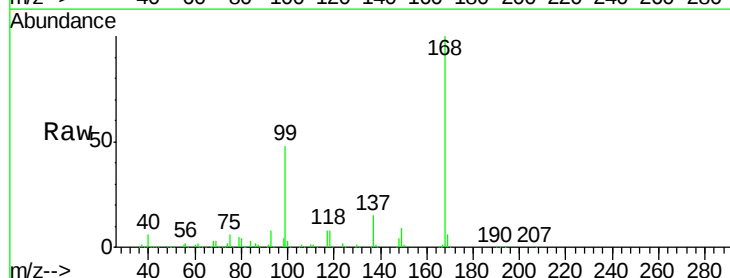
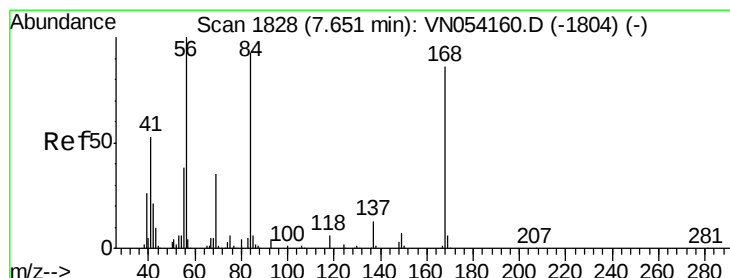
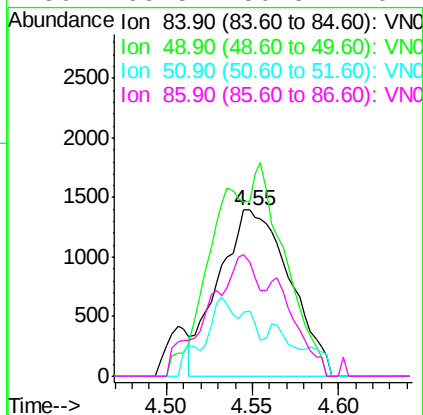
Tgt Ion: 43 Resp: 15912
Ion Ratio Lower Upper
43 100
58 36.5 29.9 44.9





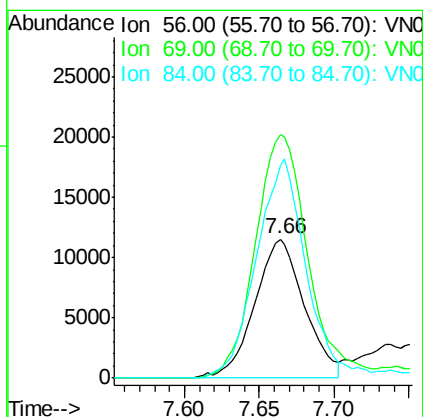
#20
Methvlene Chloride
Concen: 0.221 ug/l
RT: 4.55 min Scan# 863
Delta R.T. 0.00 min
Lab File: VN054404.D
Acq: 18 Mar 2019 19:55

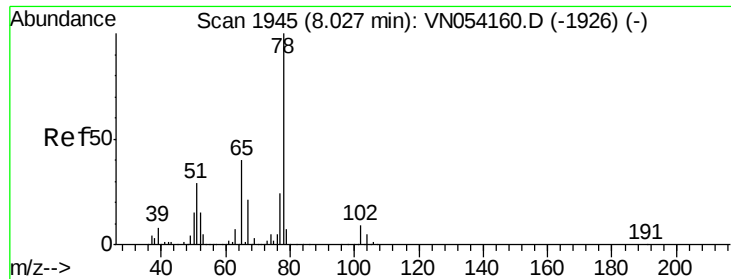
Tot Ion:	84	Resp:	4012
Ion	Ratio	Lower	Upper
84	100		
49	105.7	89.7	134.5
51	39.6	28.2	42.4
86	68.5	50.8	76.2



#31
Cyclohexane
Concen: Below Cal
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN054404.D
Acq: 18 Mar 2019 19:55

Tgt Ion:	56	Resp:	26586
Ion	Ratio	Lower	Upper
56	100		
69	175.3	27.8	41.6#
84	153.6	74.6	111.8#

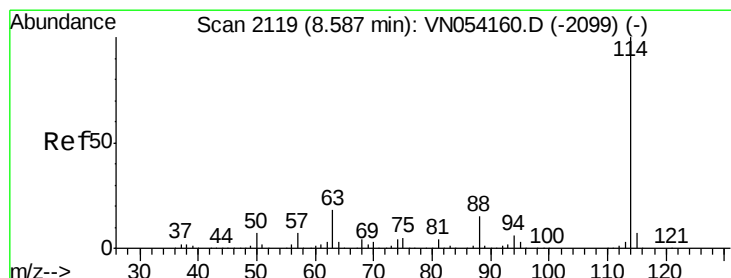
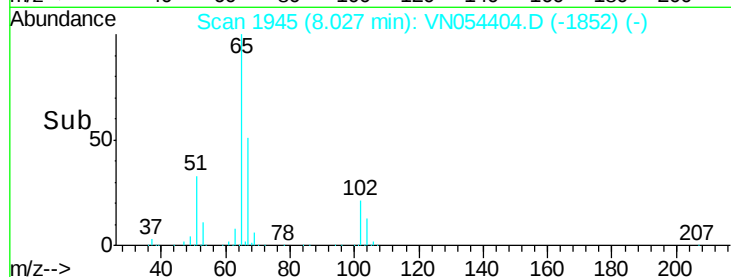
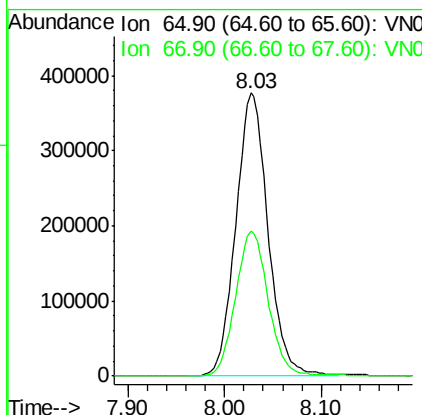
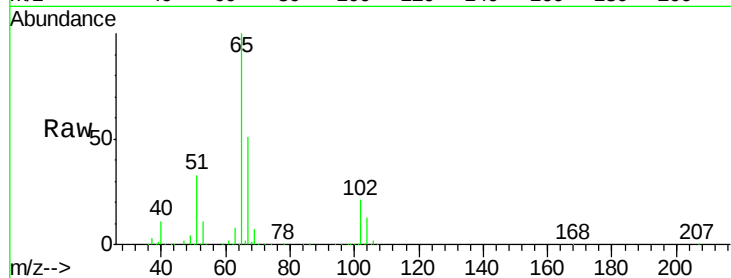




#33
 1,2-Dichloroethane-d4
 Concen: 45.185 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054404.D
 Acq: 18 Mar 2019 19:55

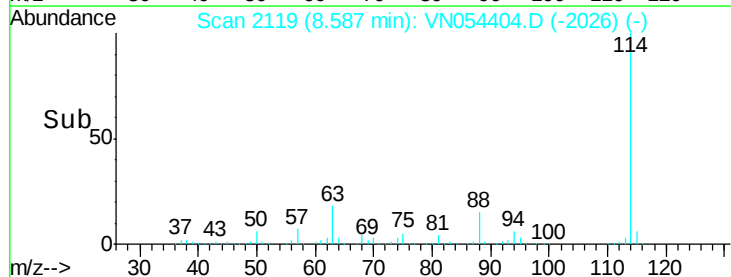
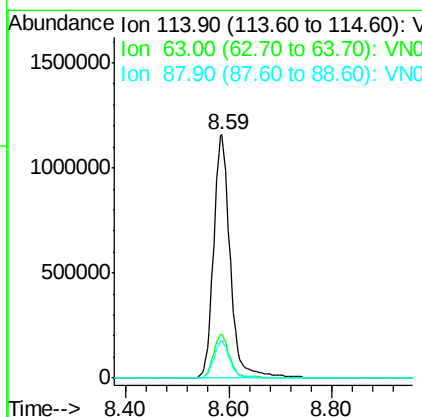
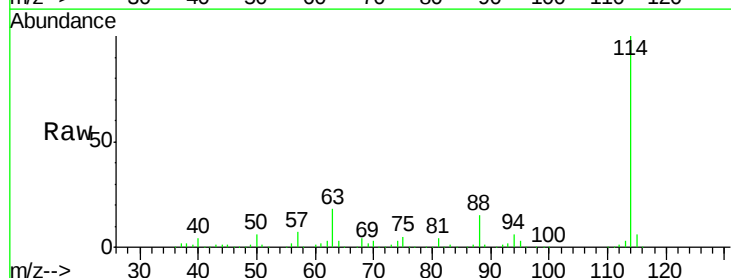
Instrument :
 MSVOA_N
 ClientSampleId :

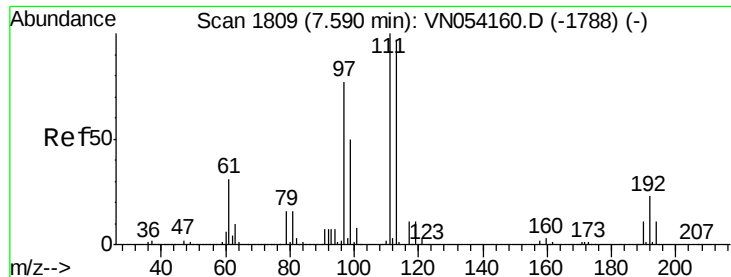
Tot Ion: 65 Resp: 871651
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 104.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054404.D
 Acq: 18 Mar 2019 19:55

Tgt Ion: 114 Resp: 2604313
 Ion Ratio Lower Upper
 114 100
 63 18.0 0.0 35.2
 88 15.3 0.0 30.2

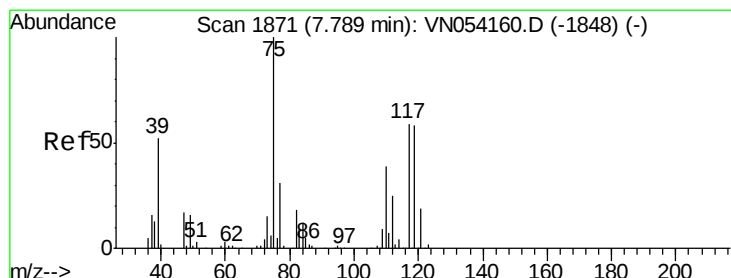
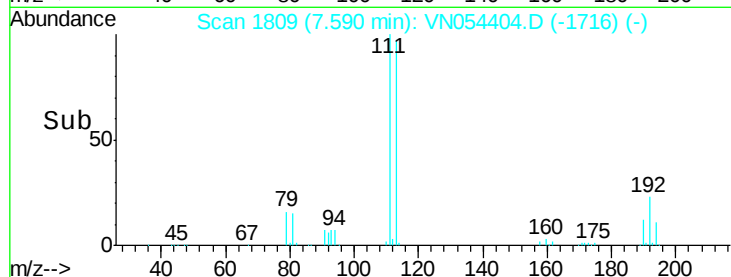
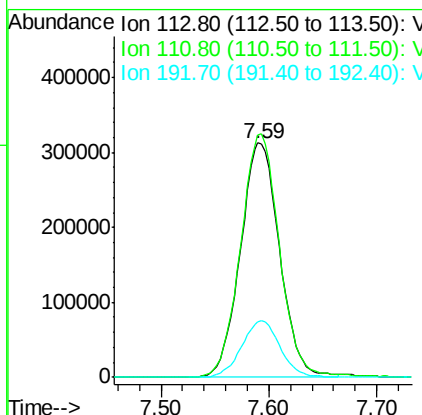
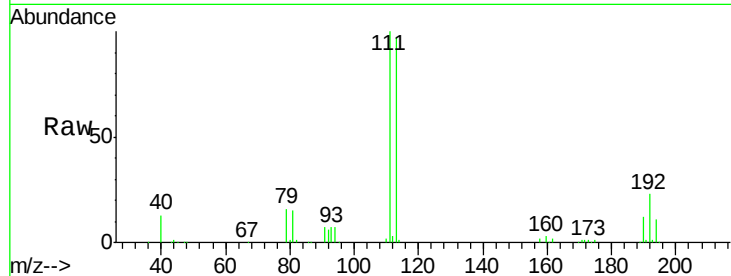




#35
 Dibromofluoromethane
 Concen: 47.014 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN054404.D
 Acq: 18 Mar 2019 19:55

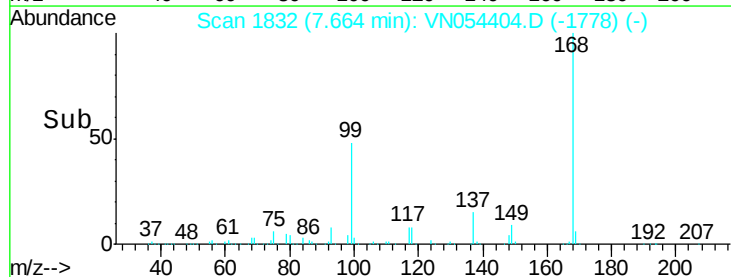
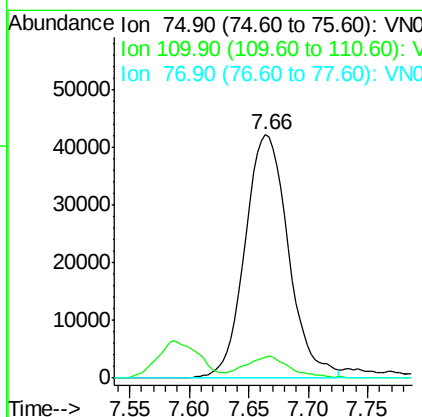
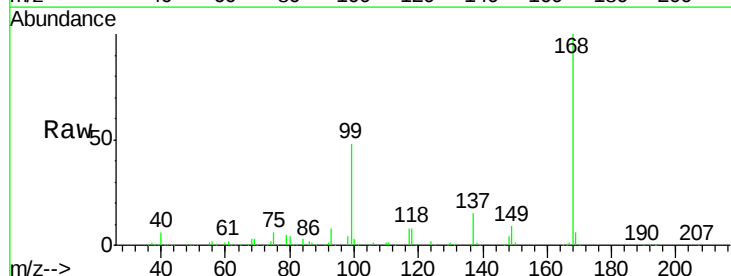
Instrument :
 MSVOA_N
 ClientSampleId :

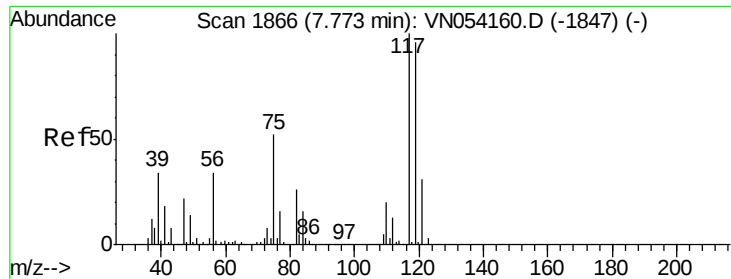
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.2	123.4
192	23.8	19.2	28.8



#36
 1,1-Dichloropropene
 Concen: 4.456 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054404.D
 Acq: 18 Mar 2019 19:55

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.6	19.1	57.5#
77	0.0	25.0	37.4#





#38

Carbon Tetrachloride

Concen: 5.926 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN054404.D

Acq: 18 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampleId :

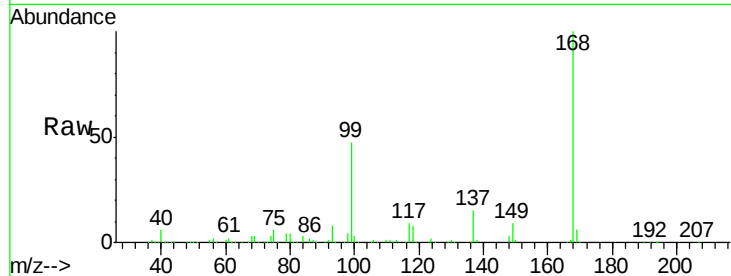
Tot Ion:117 Resp: 149052

Ion Ratio Lower Upper

117 100

119 4.8 76.3 114.5#

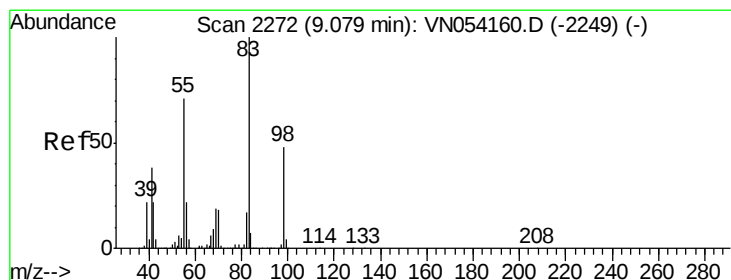
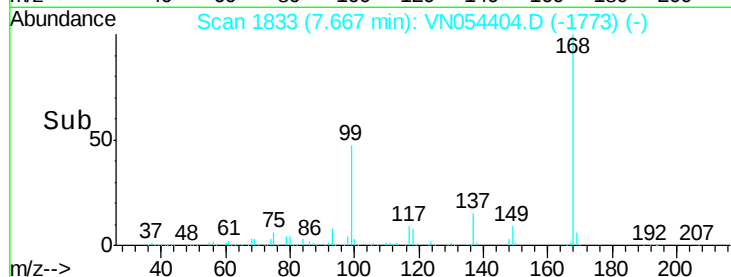
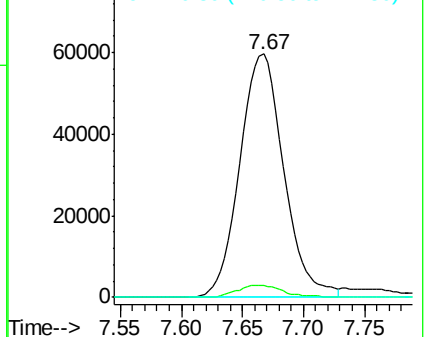
121 0.0 24.6 36.8#



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



#39

Methylcyclohexane

Concen: 0.229 ug/l

RT: 9.04 min Scan# 2261

Delta R.T. -0.04 min

Lab File: VN054404.D

Acq: 18 Mar 2019 19:55

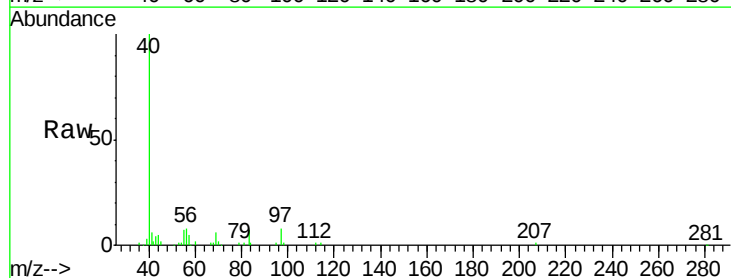
Tgt Ion: 83 Resp: 6750

Ion Ratio Lower Upper

83 100

55 112.4 56.6 84.8#

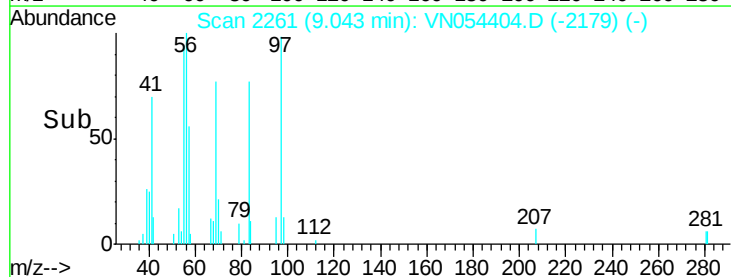
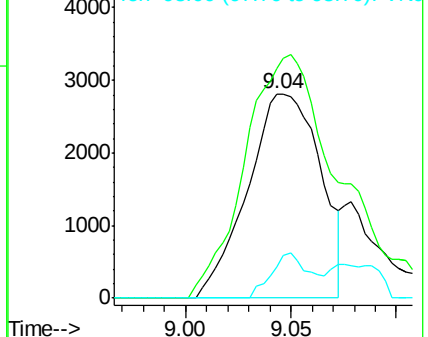
98 15.5 38.4 57.6#

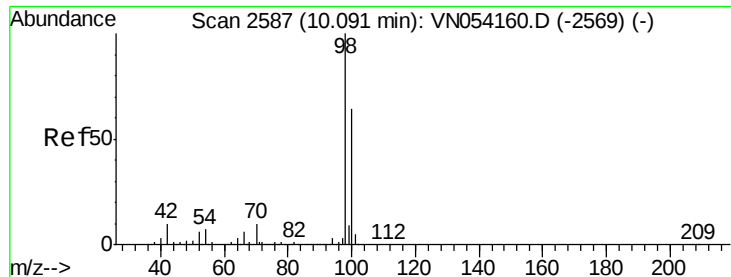


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 98.00 (97.70 to 98.70): V





#50

Toluene-d8

Concen: 48.381 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054404.D

Acq: 18 Mar 2019 19:55

Instrument :

MSVOA_N

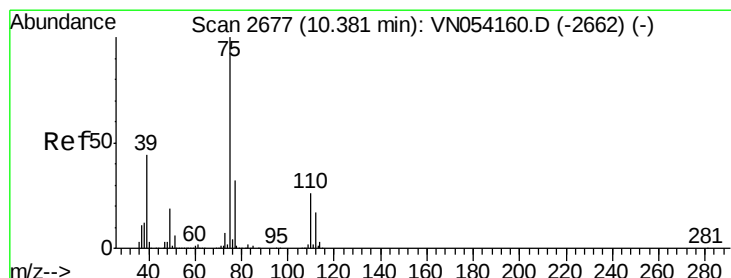
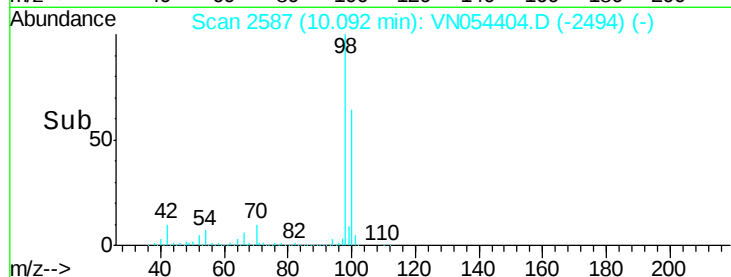
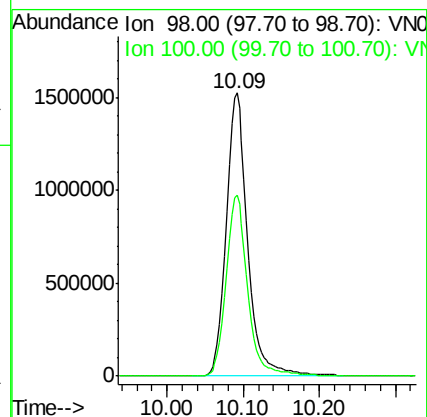
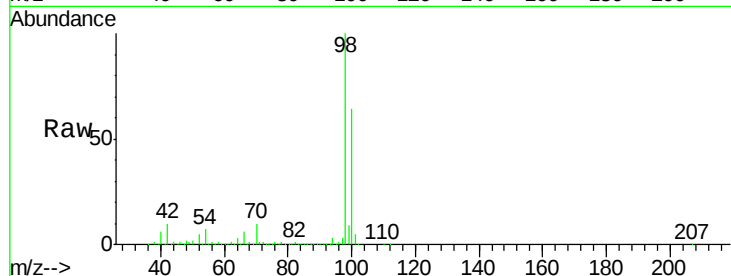
ClientSampleId :

Tot Ion: 98 Resp: 3001231

Ion Ratio Lower Upper

98 100

100 64.8 51.2 76.8



#53

t-1,3-Dichloropropene

Concen: 1.990 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN054404.D

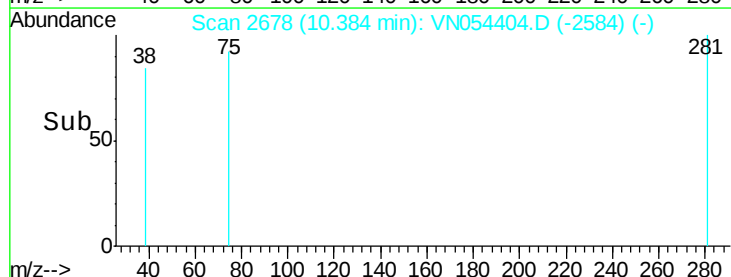
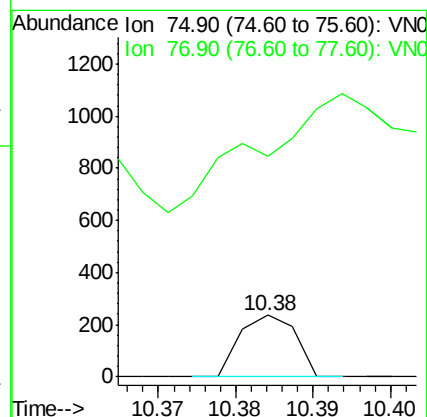
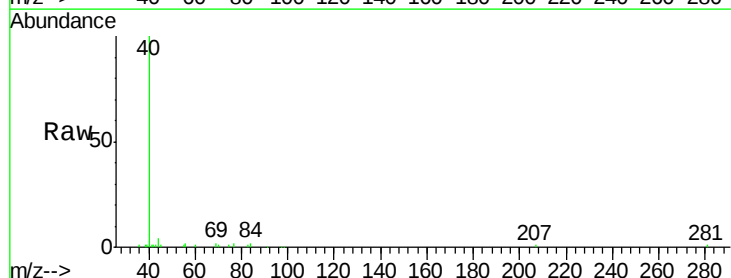
Acq: 18 Mar 2019 19:55

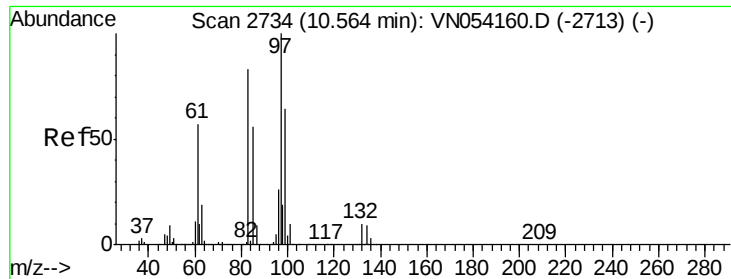
Tgt Ion: 75 Resp: 118

Ion Ratio Lower Upper

75 100

77 65.3 25.8 38.8#

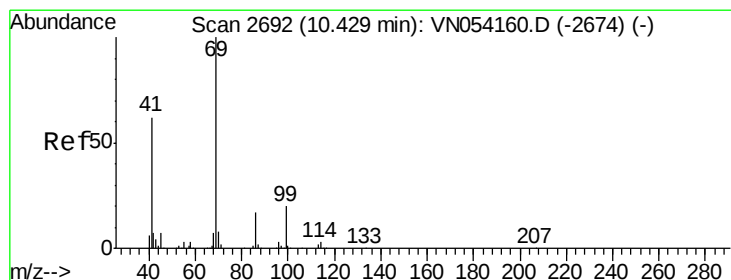
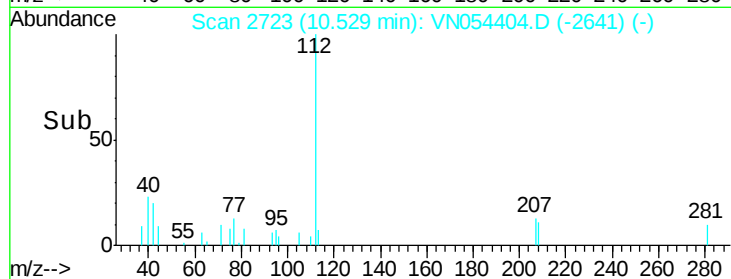
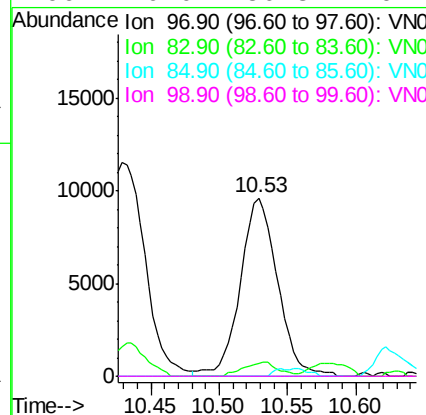
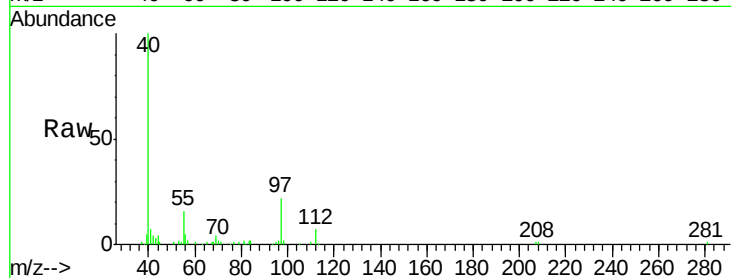




#55
 1,1,2-Trichloroethane
 Concen: 1.152 ug/l
 RT: 10.53 min Scan# 2723
 Delta R.T. -0.04 min
 Lab File: VN054404.D
 Acq: 18 Mar 2019 19:55

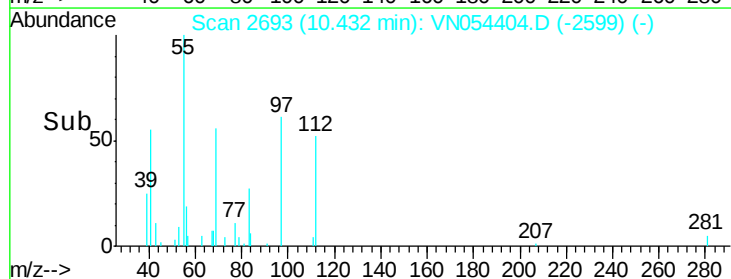
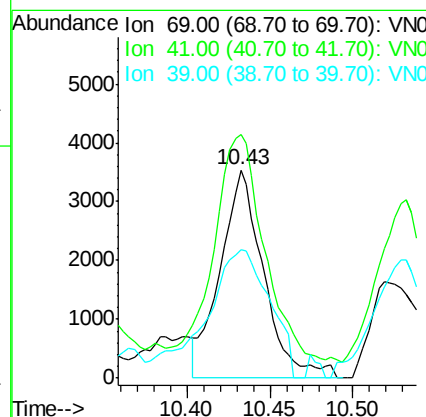
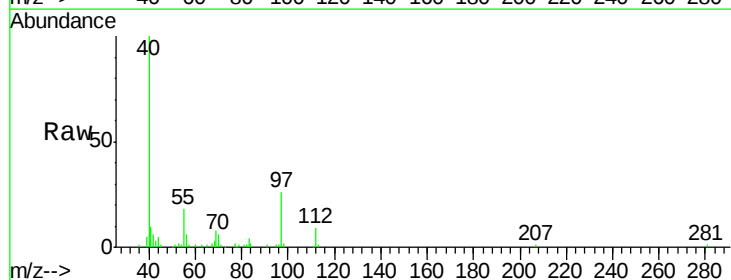
Instrument :
 MSVOA_N
 ClientSampleId :

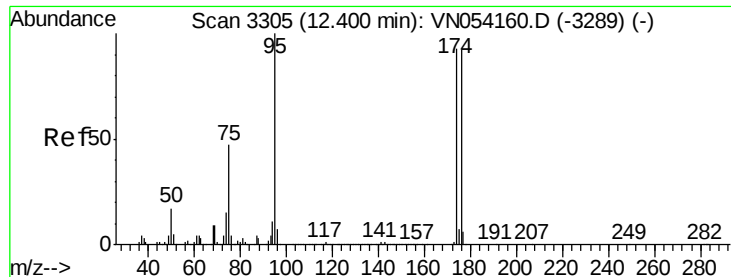
Tot Ion	Ratio	Lower	Upper
97	100		
83	6.9	66.6	100.0#
85	0.0	44.4	66.6#
99	0.0	50.8	76.2#



#56
 Ethyl methacrylate
 Concen: 0.340 ug/l
 RT: 10.43 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VN054404.D
 Acq: 18 Mar 2019 19:55

Tgt Ion	Ratio	Lower	Upper
69	100		
41	129.2	49.4	74.2#
39	91.3	28.3	42.5#





#62

4-Bromofluorobenzene

Concen: 42.281 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054404.D

Acq: 18 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampleId :

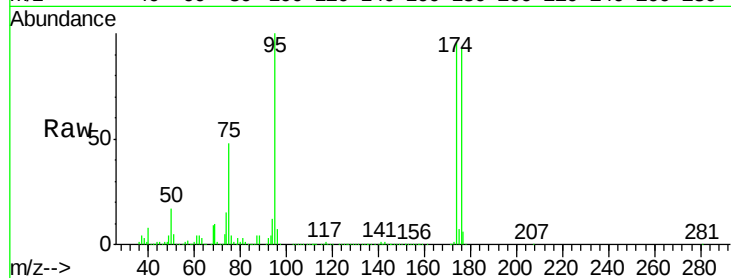
Tot Ion: 95 Resp: 917732

Ion Ratio Lower Upper

95 100

174 95.9 0.0 191.0

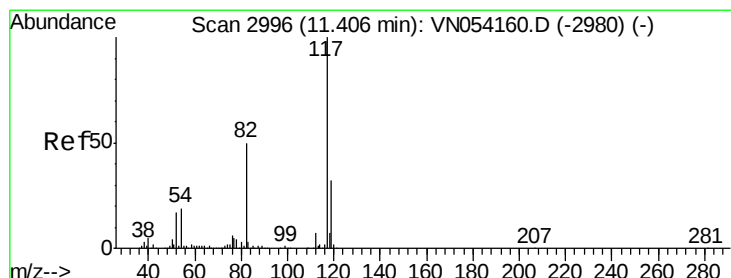
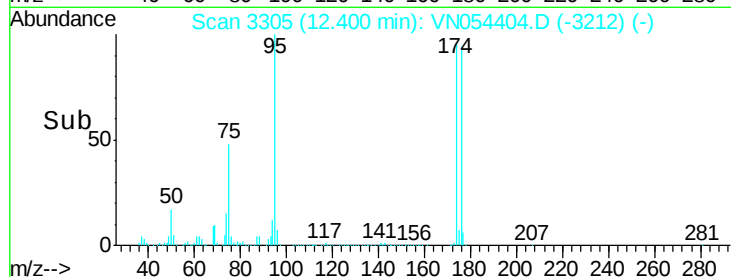
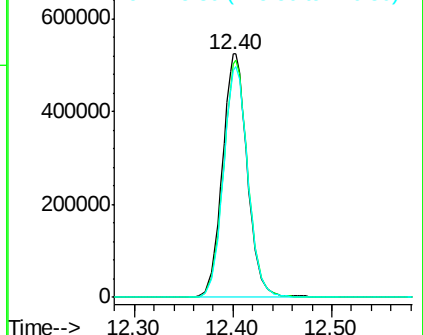
176 94.1 0.0 187.4



Abundance Ion 94.90 (94.60 to 95.60): VN054404.D (-3212) (-)

Ion 173.80 (173.50 to 174.50): VN054404.D (-3212) (-)

Ion 175.80 (175.50 to 176.50): VN054404.D (-3212) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054404.D

Acq: 18 Mar 2019 19:55

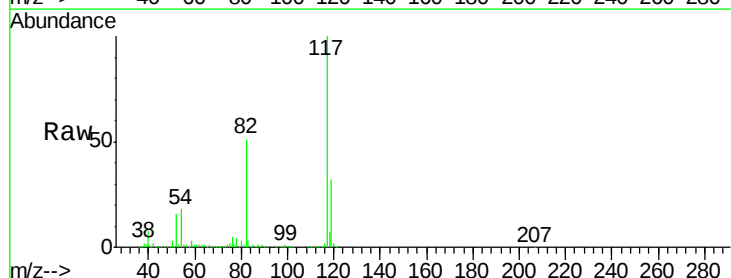
Tgt Ion: 117 Resp: 2186363

Ion Ratio Lower Upper

117 100

82 51.3 40.0 60.0

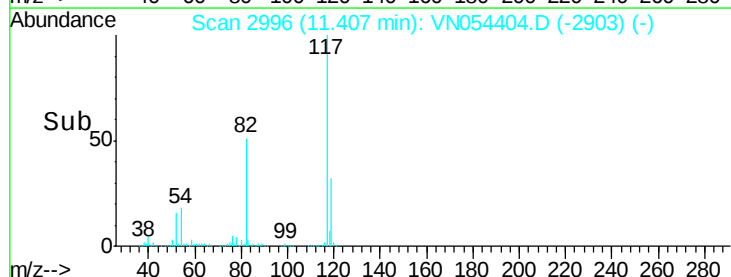
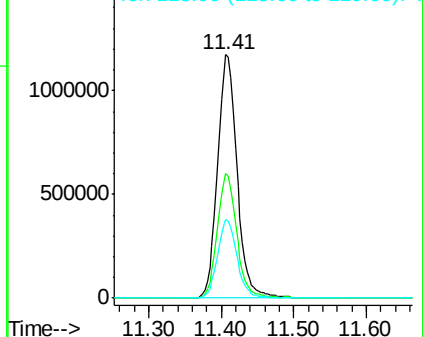
119 32.4 25.8 38.6

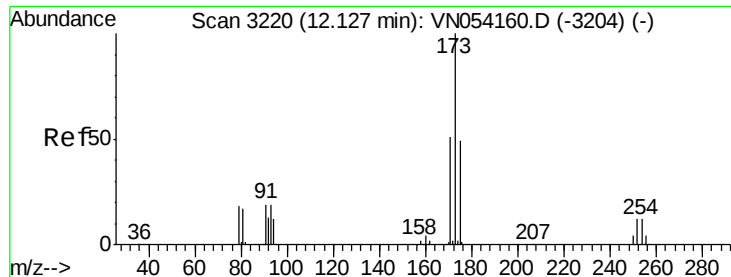


Abundance Ion 116.90 (116.60 to 117.60): VN054404.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN054404.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN054404.D (-2903) (-)





#71

Bromoform

Concen: 2.764 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN054404.D

Acq: 18 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampled :

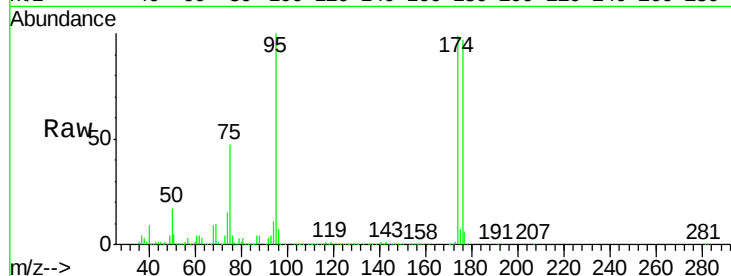
Tot Ion:173 Resp: 5761

Ion Ratio Lower Upper

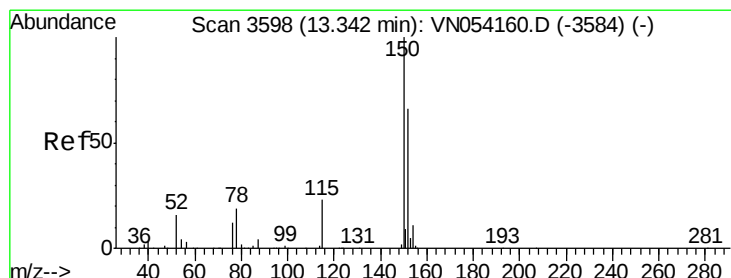
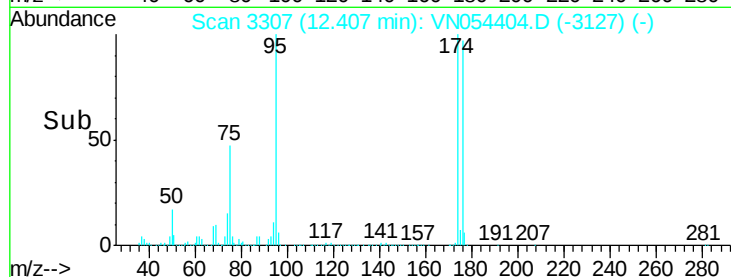
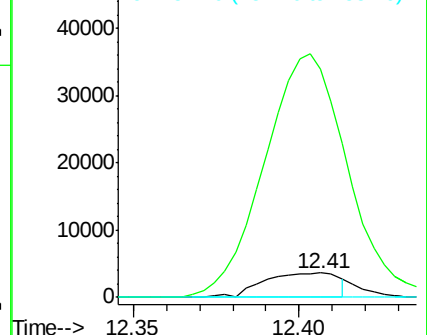
173 100

175 939.9 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: VN054404.D

Acq: 18 Mar 2019 19:55

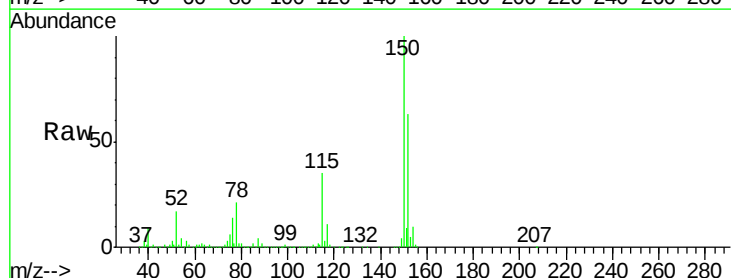
Tgt Ion:152 Resp: 833244

Ion Ratio Lower Upper

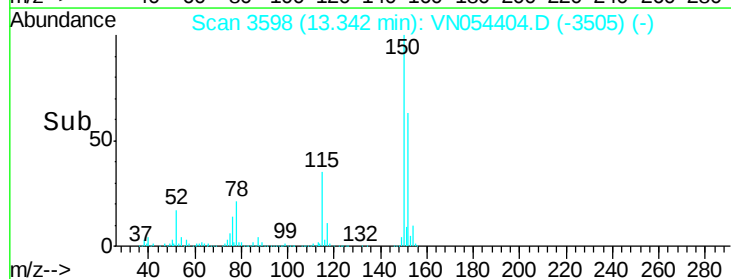
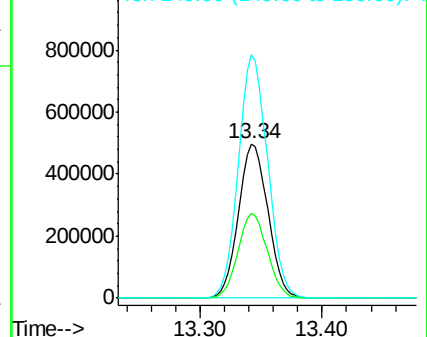
152 100

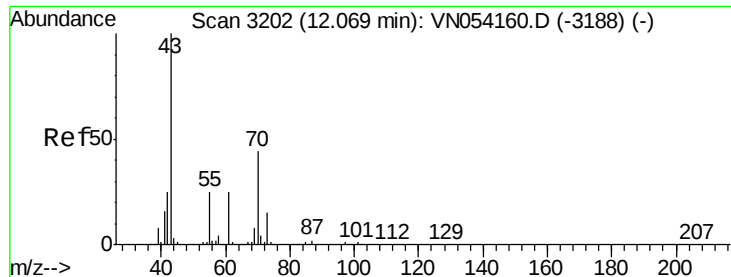
115 54.6 27.2 81.6

150 156.3 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





#74

N-amvl acetate

Concen: 0.295 ug/l

RT: 12.11 min Scan# 3214

Delta R.T. 0.04 min

Lab File: VN054404.D

Acq: 18 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion: 43 Resp: 4371

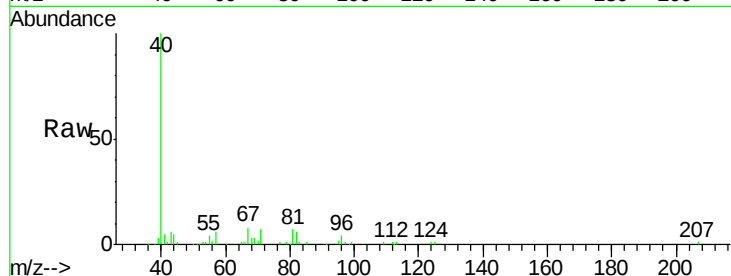
Ion Ratio Lower Upper

43 100

70 24.0 35.4 53.0#

55 0.0 19.8 29.6#

61 0.0 19.8 29.6#

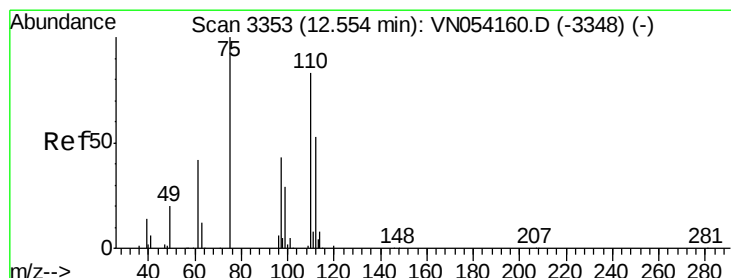
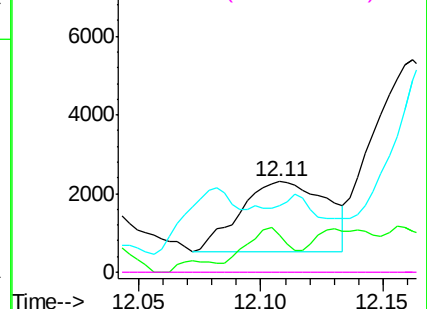
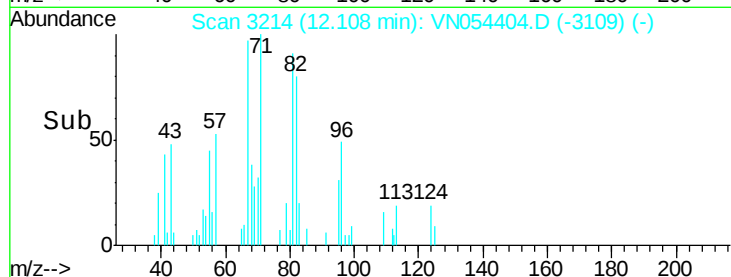


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 35.376 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054404.D

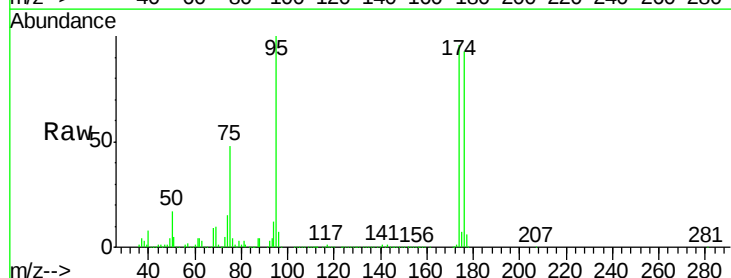
Acq: 18 Mar 2019 19:55

Tgt Ion: 75 Resp: 433476

Ion Ratio Lower Upper

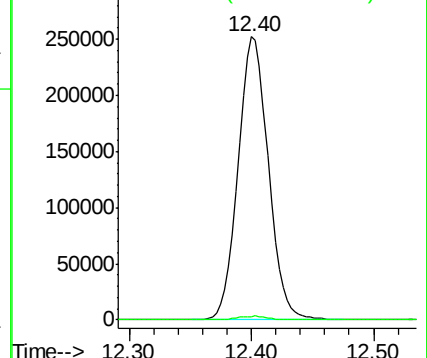
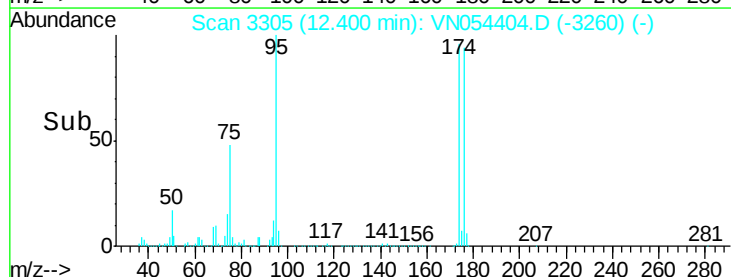
75 100

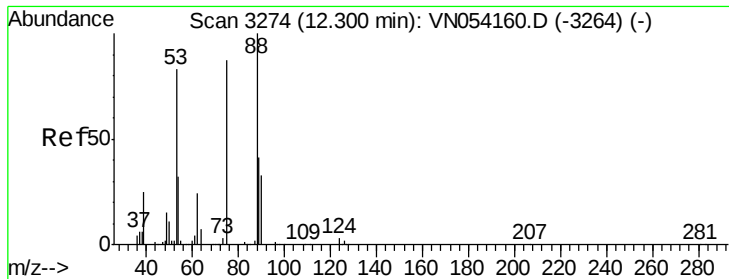
77 1.4 0.0 0.0#



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: 120.933 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054404.D

Acq: 18 Mar 2019 19:55

Instrument :

MSVOA_N

ClientSampleId :

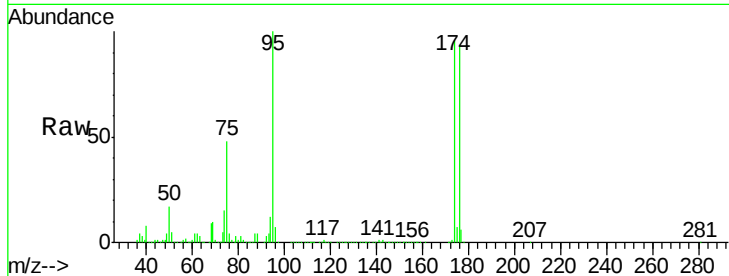
Tot Ion: 75 Resp: 433476

Ion Ratio Lower Upper

75 100

53 0.1 76.2 114.2#

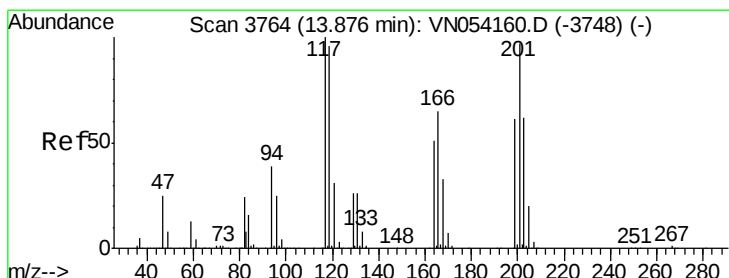
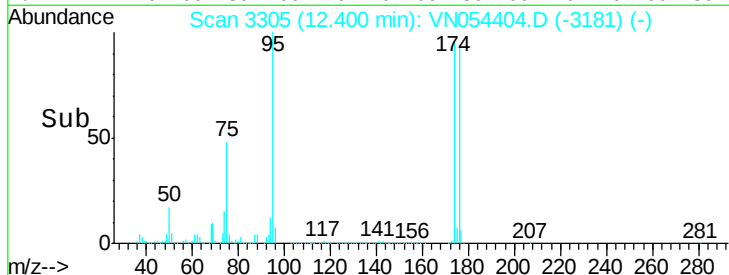
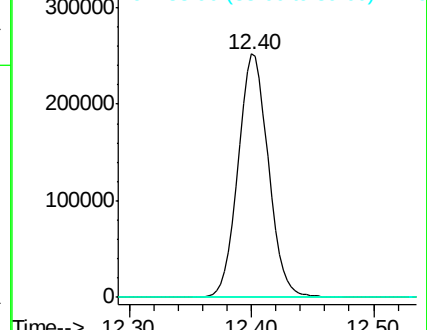
89 0.0 39.2 58.8#



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



#90

Hexachloroethane

Concen: 0.647 ug/l

RT: 13.89 min Scan# 3768

Delta R.T. 0.01 min

Lab File: VN054404.D

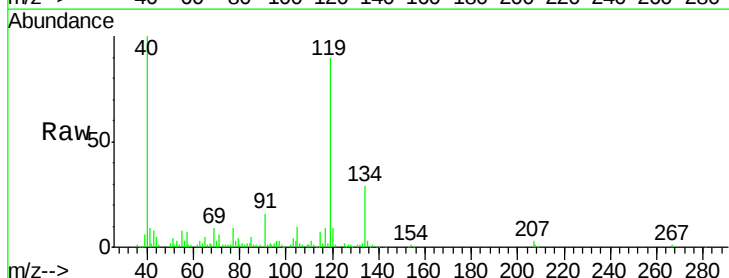
Acq: 18 Mar 2019 19:55

Tgt Ion: 117 Resp: 6224

Ion Ratio Lower Upper

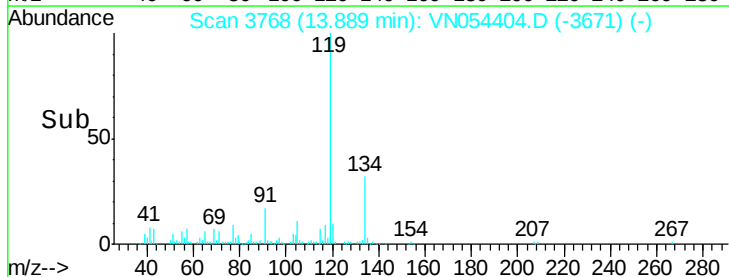
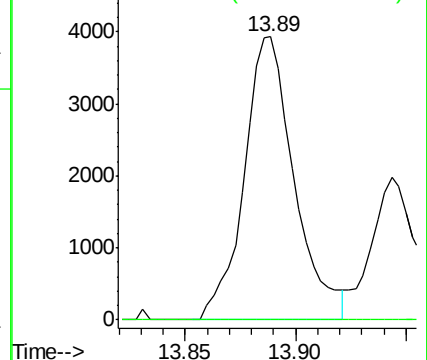
117 100

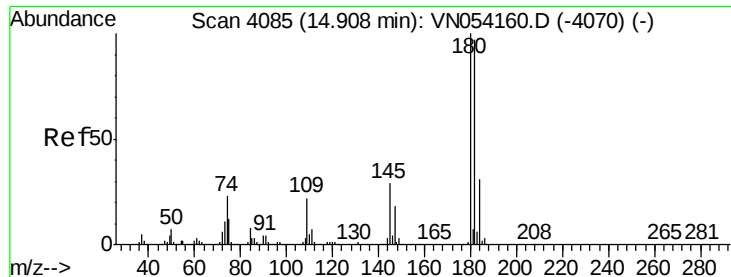
201 0.0 48.1 144.4#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

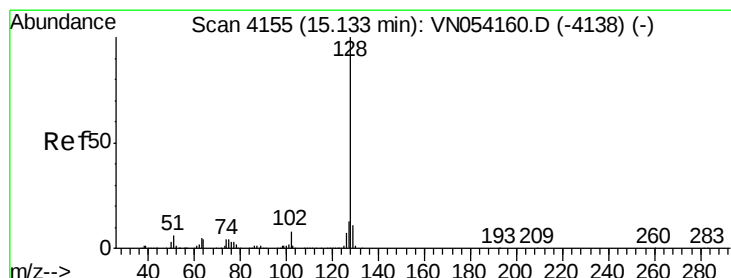
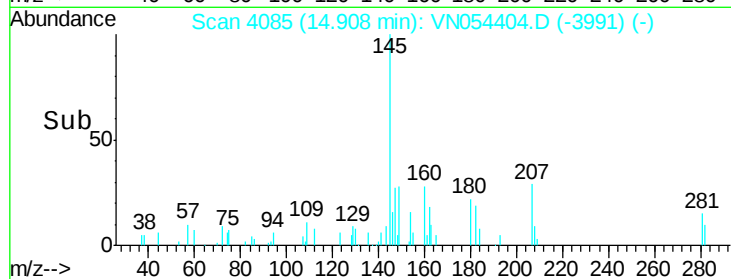
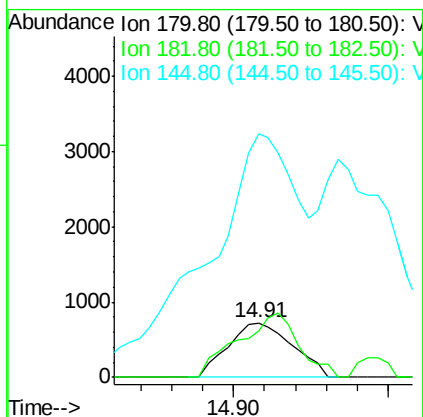
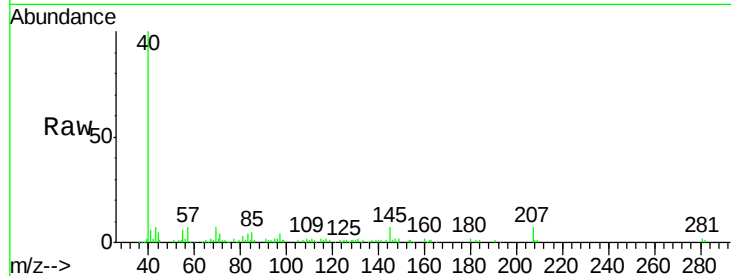




#93
 1,2,4-Trichlorobenzene
 Concen: 2.573 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054404.D
 Acq: 18 Mar 2019 19:55

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 1051
 Ion Ratio Lower Upper
 180 100
 182 110.8 48.0 144.2
 145 653.0 14.2 42.8#



#95
 Naphthalene
 Concen: 3.585 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN054404.D
 Acq: 18 Mar 2019 19:55

Tgt Ion:128 Resp: 4513
 Ion Ratio Lower Upper
 128 100
 127 15.5 10.1 15.1#
 129 14.5 8.7 13.1#

