

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032619\
 Data File : VN054702.D
 Acq On : 26 Mar 2019 17:48
 Operator : JC/SP
 Sample : I.BLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Mar 27 04:08:41 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	525990	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	838849	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	720522	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	255168	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	336911	51.50	ug/l	0.00
Spiked Amount			Recovery	=	103.00%	
35) Dibromofluoromethane	7.59	113	265943	49.21	ug/l	0.00
Spiked Amount			Recovery	=	98.42%	
50) Toluene-d8	10.09	98	1014473	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
62) 4-Bromofluorobenzene	12.40	95	313767	45.39	ug/l	0.00
Spiked Amount			Recovery	=	90.78%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	677	1.239	ug/l #	81
18) Methyl Acetate	4.34	43	1833	0.418	ug/l	100
29) Tetrahydrofuran	7.23	42	375	0.229	ug/l #	52
31) Cyclohexane	7.66	56	11133	Below Cal	#	24
36) 1,1-Dichloropropene	7.66	75	38883	4.957	ug/l #	48
38) Carbon Tetrachloride	7.66	117	48440	6.355	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	1930	0.370	ug/l #	77
53) t-1,3-Dichloropropene	10.09	75	178	2.254	ug/l #	1
59) 2-Hexanone	10.76	43	4499	1.319	ug/l	92
71) Bromoform	12.13	173	92	2.245	ug/l #	28
74) N-amyl acetate	12.07	43	2735	0.463	ug/l #	87
76) 1,2,3-Trichloropropane	12.40	75	164569	40.643	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	164569	134.395	ug/l #	11
89) n-Butylbenzene	13.62	91	2979	0.233	ug/l	96
93) 1,2,4-Trichlorobenzene	14.91	180	2532	0.621	ug/l	96
94) Hexachlorobutadiene	15.01	225	799	Below Cal		89
95) Naphthalene	15.13	128	9831	1.080	ug/l	96
96) 1,2,3-Trichlorobenzene	15.31	180	3509	0.864	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

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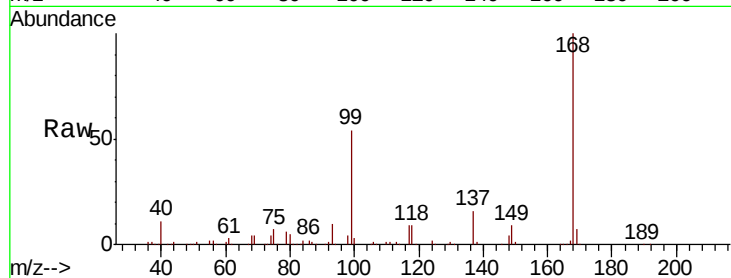
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 525990

Ion Ratio Lower Upper

168 100

99 53.7 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

250000

200000

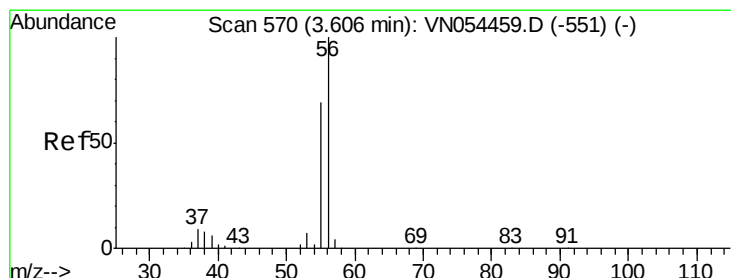
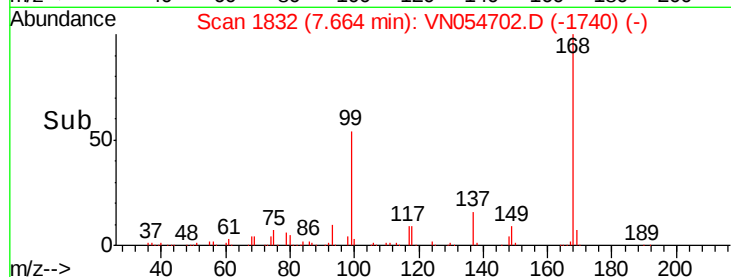
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 1.239 ug/l

RT: 3.62 min Scan# 573

Delta R.T. 0.01 min

Lab File: VN054702.D

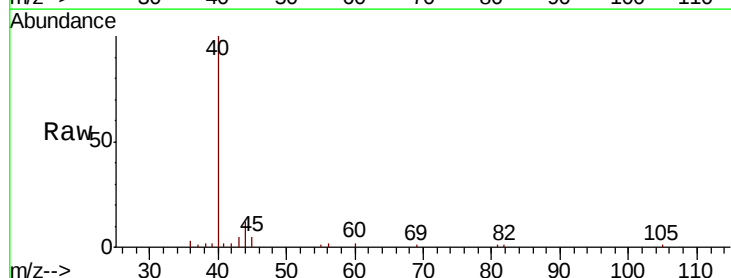
Acq: 26 Mar 2019 17:48

Tgt Ion: 56 Resp: 677

Ion Ratio Lower Upper

56 100

55 55.5 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

3.62

400

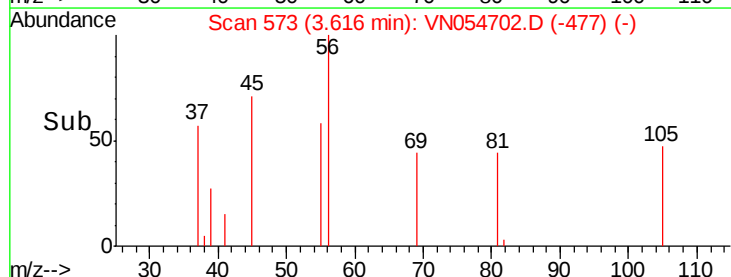
300

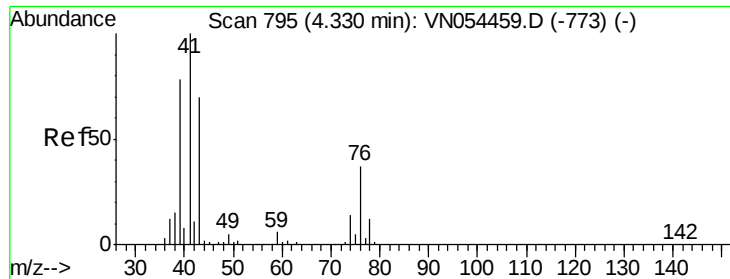
200

100

0

Time-->

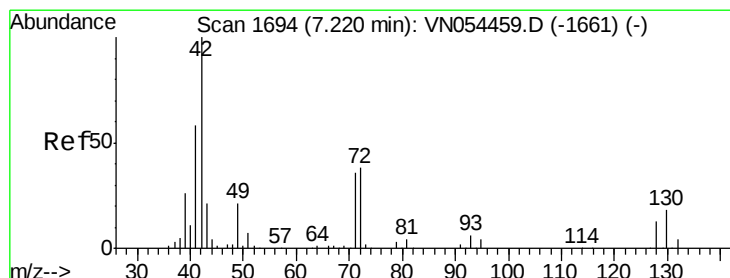
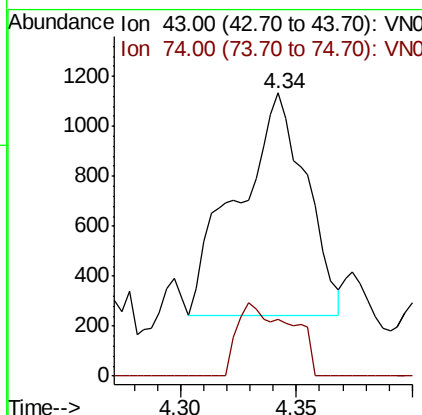
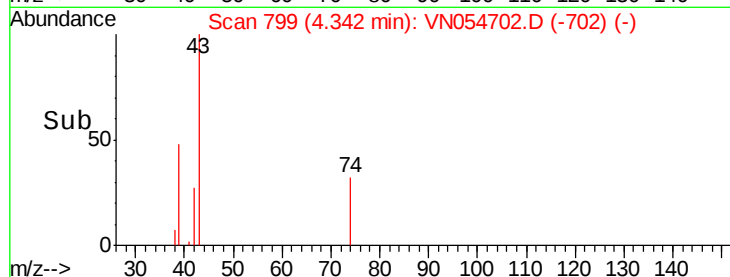
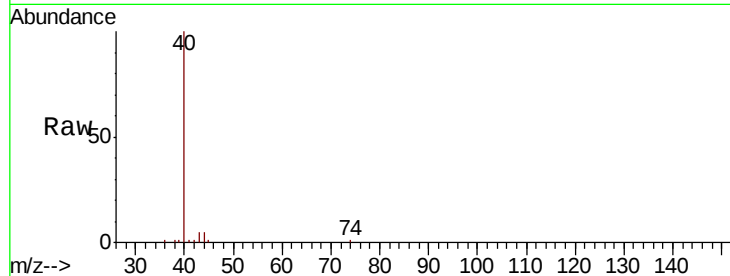




#18
Methyl Acetate
Concen: 0.418 ug/l
RT: 4.34 min Scan# 799
Delta R.T. 0.01 min
Lab File: VN054702.D
Acq: 26 Mar 2019 17:48

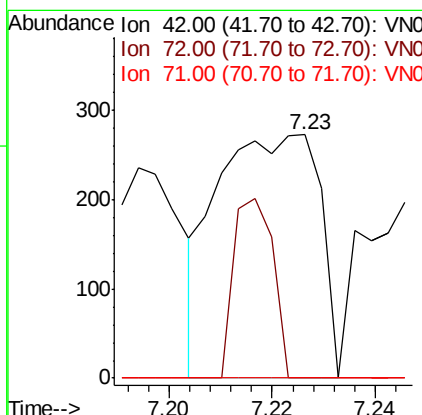
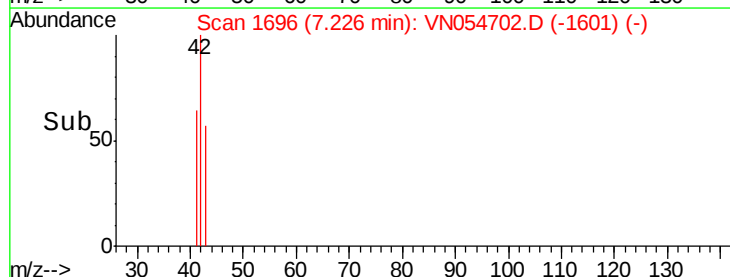
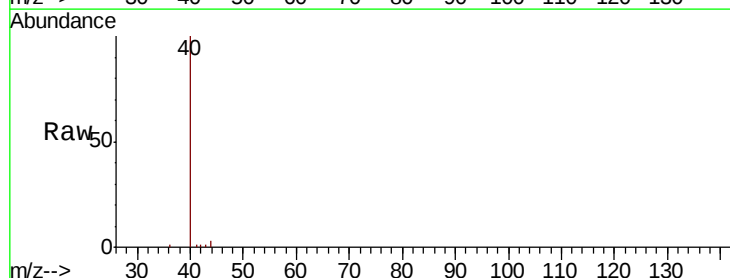
Instrument :
MSVOA_N
ClientSampled :

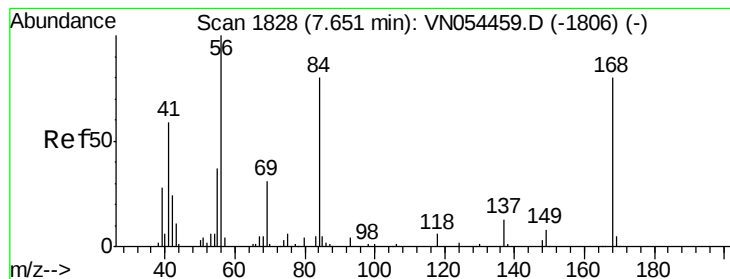
Tot Ion: 43 Resp: 1833
Ion Ratio Lower Upper
43 100
74 25.8 20.8 31.2



#29
Tetrahydrofuran
Concen: 0.229 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.01 min
Lab File: VN054702.D
Acq: 26 Mar 2019 17:48

Tgt Ion: 42 Resp: 375
Ion Ratio Lower Upper
42 100
72 28.3 37.8 56.6#
71 0.0 36.2 54.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

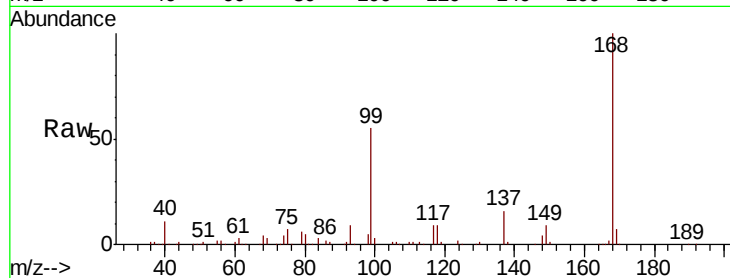
Lab File: VN054702.D

Acq: 26 Mar 2019 17:48

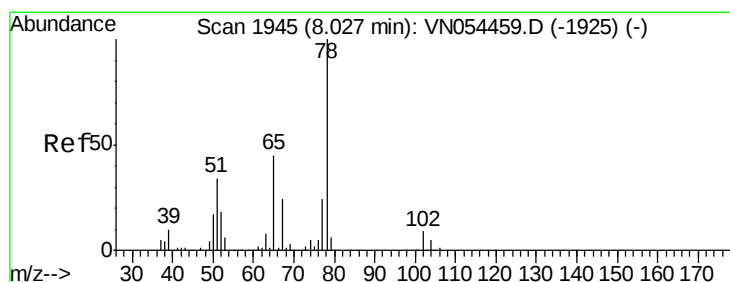
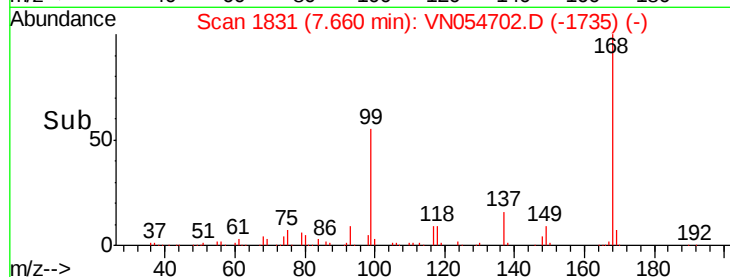
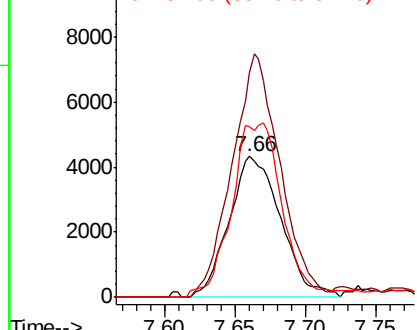
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11133

Ion	Ratio	Lower	Upper
56	100		
69	159.3	27.8	41.6#
84	116.8	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: 51.496 ug/l

RT: 8.03 min Scan# 1945

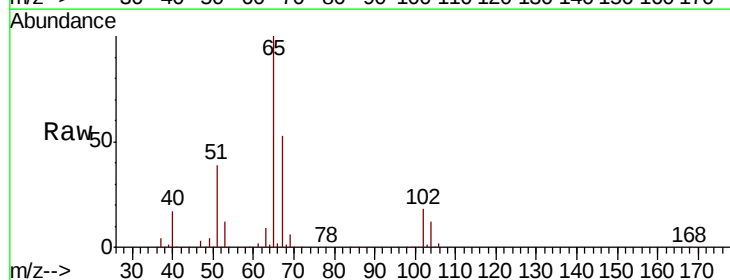
Delta R.T. -0.00 min

Lab File: VN054702.D

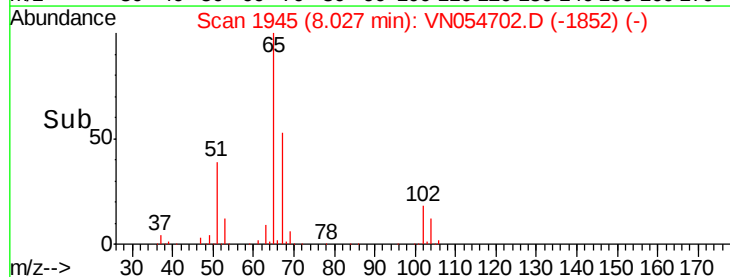
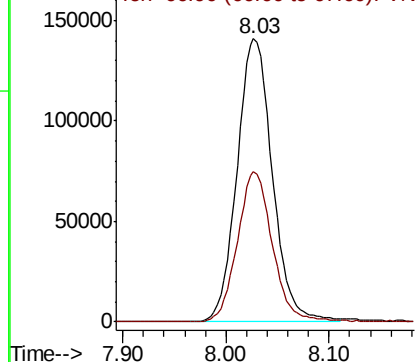
Acq: 26 Mar 2019 17:48

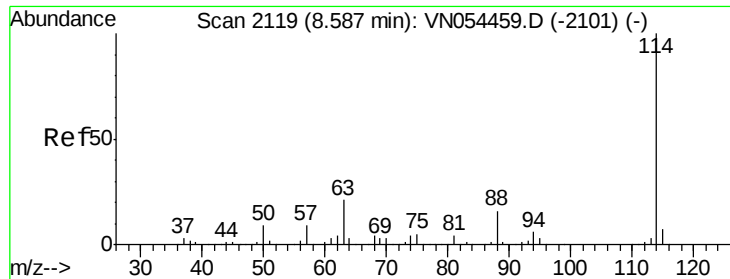
Tgt Ion: 65 Resp: 336911

Ion	Ratio	Lower	Upper
65	100		
67	52.6	0.0	104.6



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

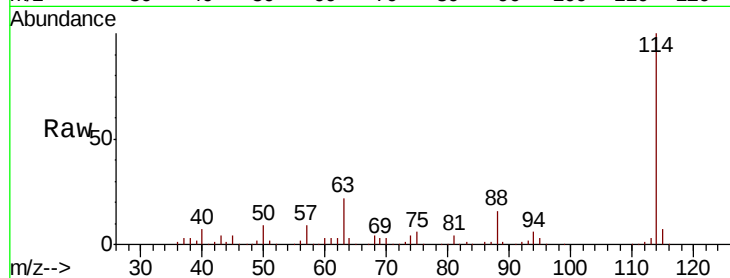




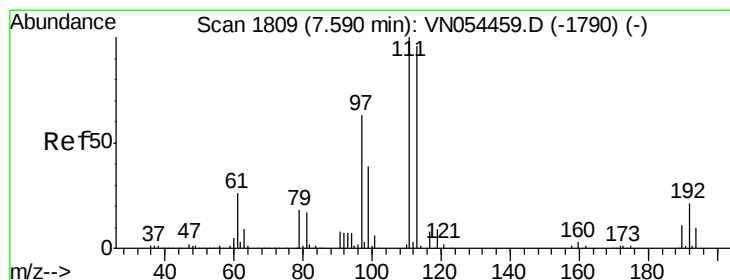
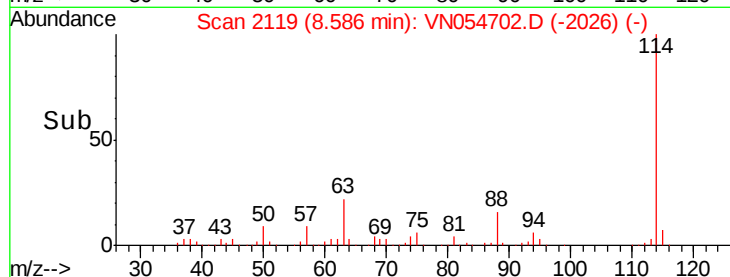
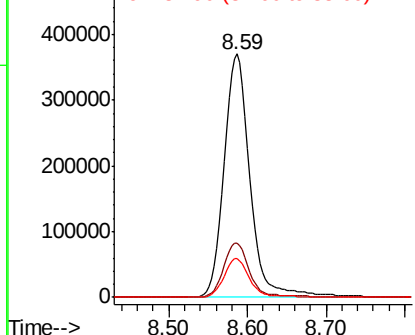
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054702.D
 Acq: 26 Mar 2019 17:48

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 838849
 Ion Ratio Lower Upper
 114 100
 63 22.2 0.0 35.2
 88 15.7 0.0 30.2

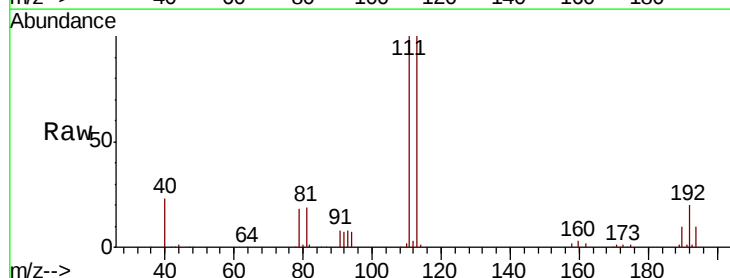


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

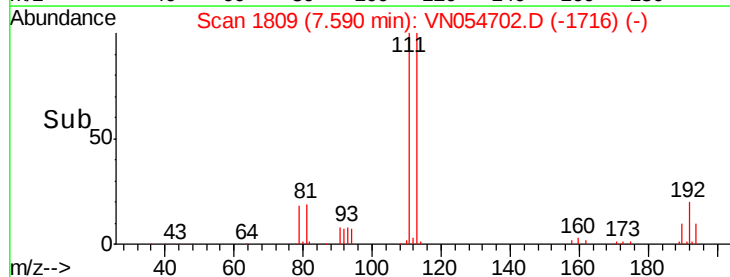
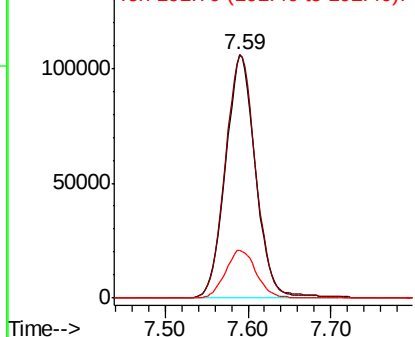


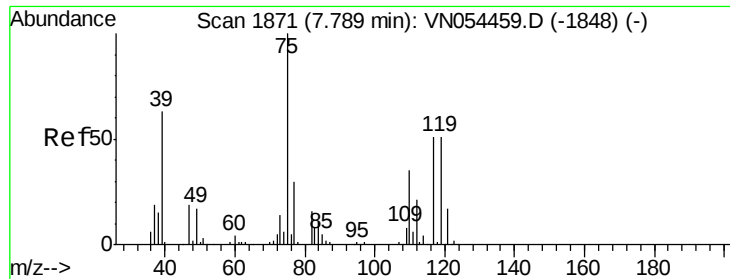
#35
 Dibromofluoromethane
 Concen: 49.210 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN054702.D
 Acq: 26 Mar 2019 17:48

Tgt Ion:113 Resp: 265943
 Ion Ratio Lower Upper
 113 100
 111 102.2 82.2 123.4
 192 20.3 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

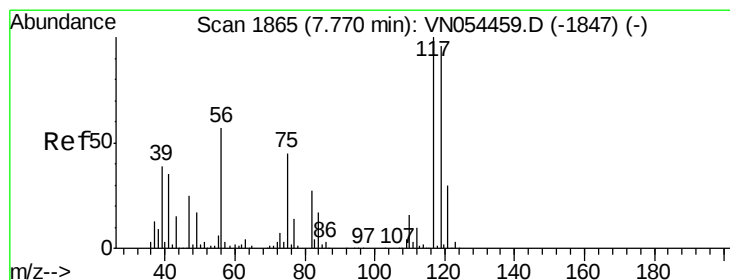
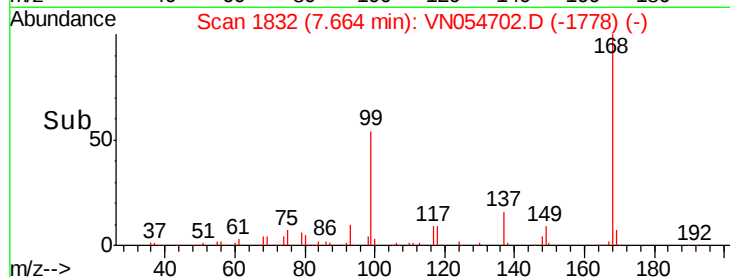
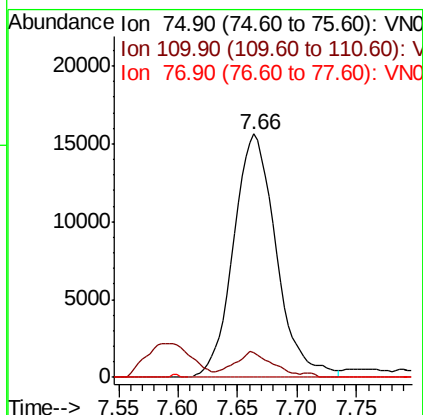
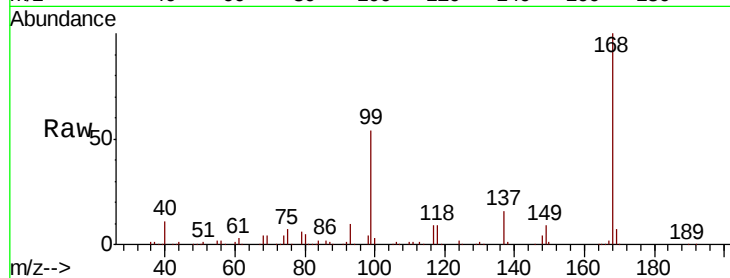




#36
 1,1-Dichloropropene
 Concen: 4.957 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN054702.D
 Acq: 26 Mar 2019 17:48

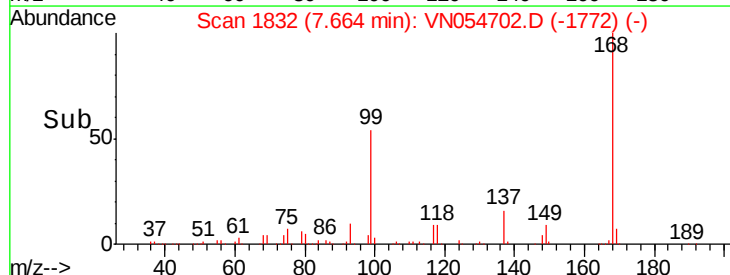
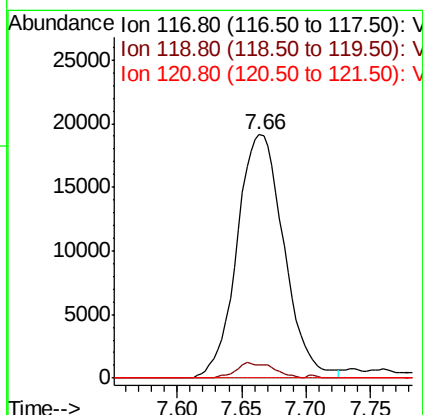
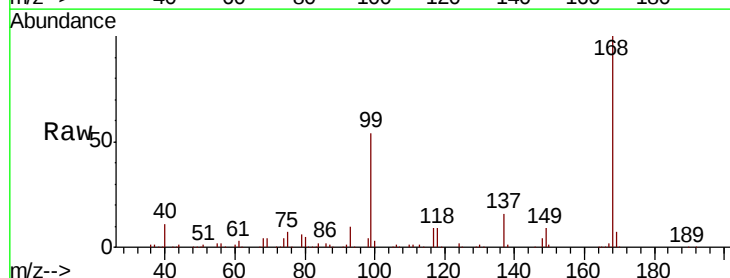
Instrument :
 MSVOA_N
 ClientSampleId :

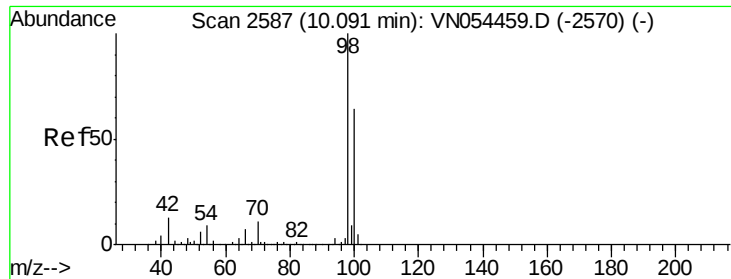
Tot Ion	Ratio	Lower	Upper
75	100		
110	9.4	19.1	57.5#
77	0.0	25.0	37.4#



#38
 Carbon Tetrachloride
 Concen: 6.355 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN054702.D
 Acq: 26 Mar 2019 17:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.4	76.3	114.5#
121	0.0	24.6	36.8#

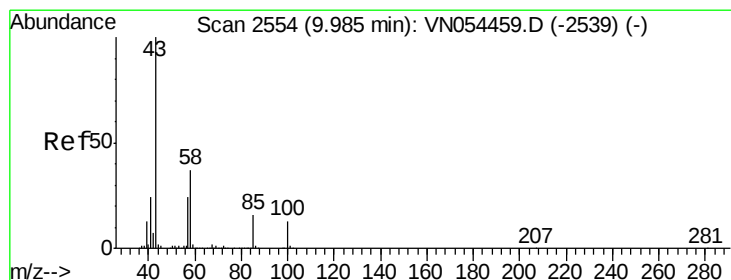
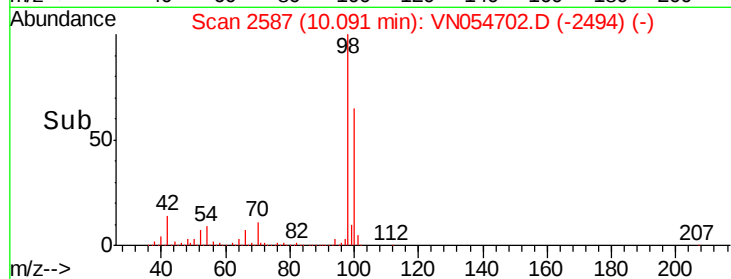
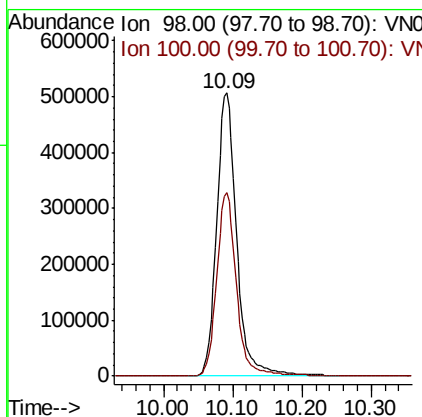
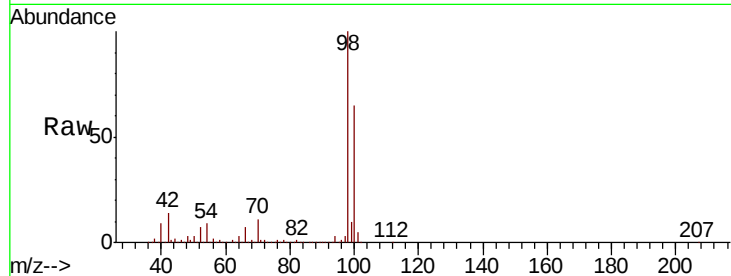




#50
Toluene-d8
Concen: 49.933 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN054702.D
Acq: 26 Mar 2019 17:48

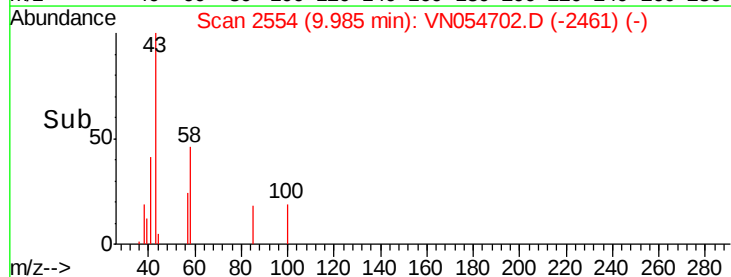
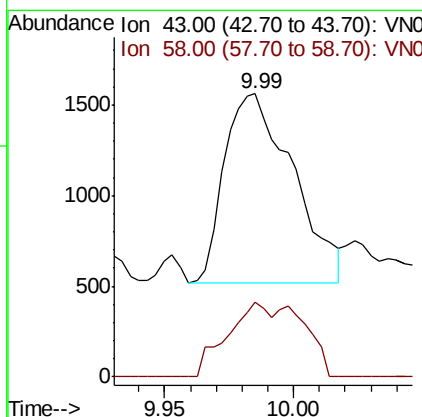
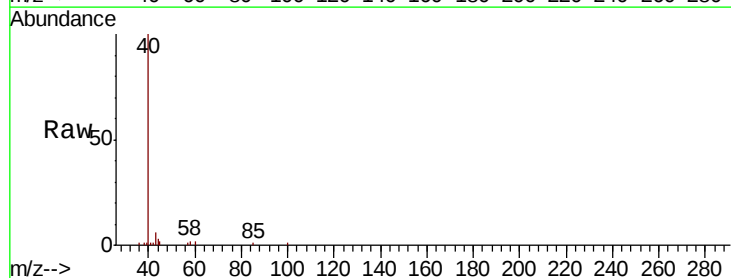
Instrument :
MSVOA_N
ClientSampleId :

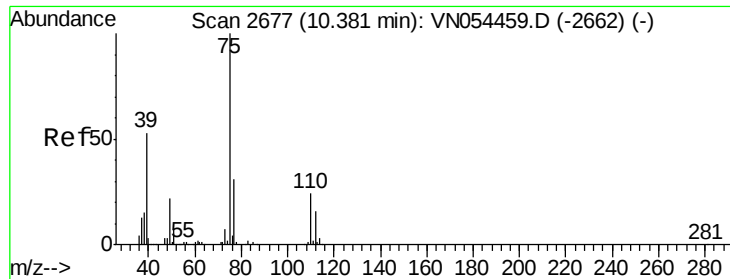
Tot Ion: 98 Resp: 1014473
Ion Ratio Lower Upper
98 100
100 64.4 51.2 76.8



#51
4-Methyl-2-Pentanone
Concen: 0.370 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN054702.D
Acq: 26 Mar 2019 17:48

Tgt Ion: 43 Resp: 1930
Ion Ratio Lower Upper
43 100
58 25.3 31.8 47.6#





#53

t-1,3-Dichloropropene

Concen: 2.254 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.29 min

Lab File: VN054702.D

Acq: 26 Mar 2019 17:48

Instrument :

MSVOA_N

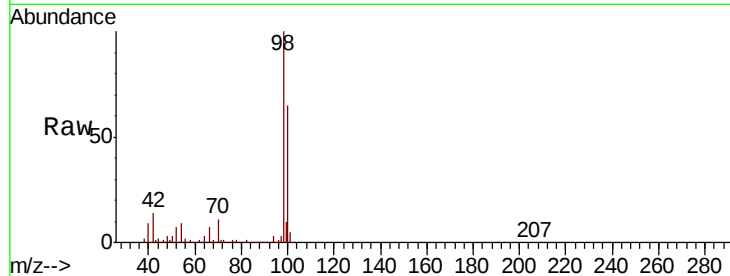
ClientSampleId :

Tot Ion: 75 Resp: 178

Ion Ratio Lower Upper

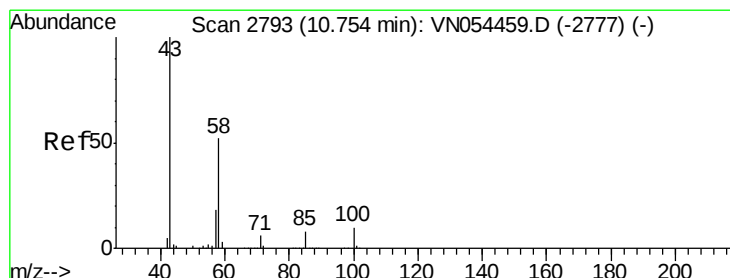
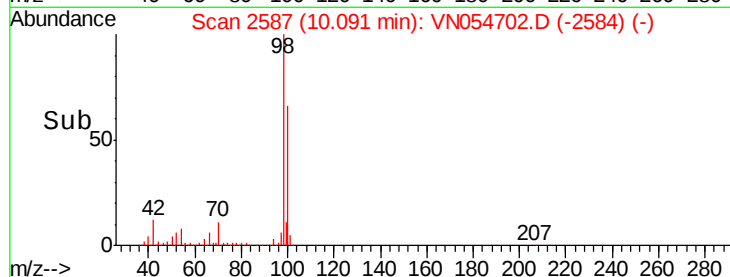
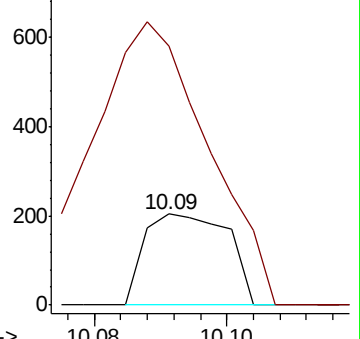
75 100

77 284.3 25.8 38.8#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#59

2-Hexanone

Concen: 1.319 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.00 min

Lab File: VN054702.D

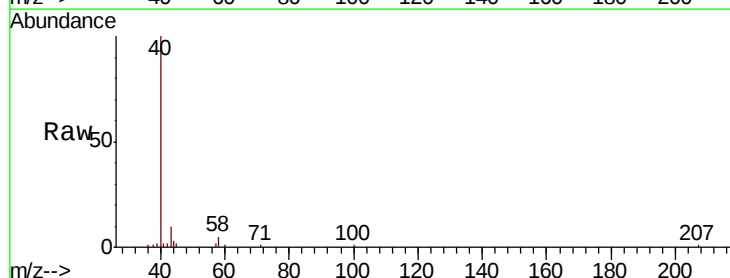
Acq: 26 Mar 2019 17:48

Tgt Ion: 43 Resp: 4499

Ion Ratio Lower Upper

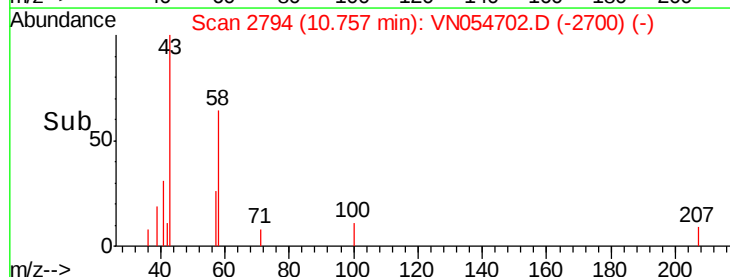
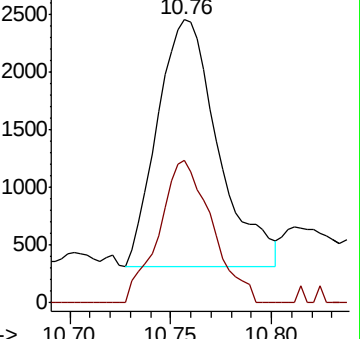
43 100

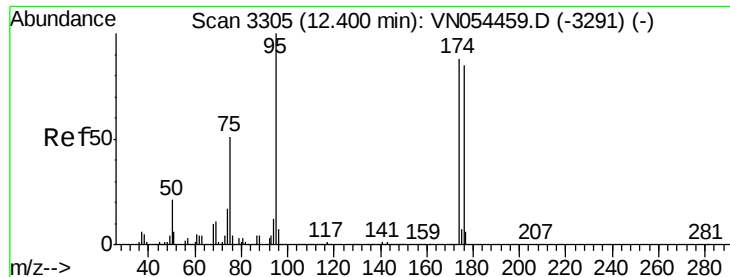
58 50.3 28.0 83.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 45.385 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN054702.D

Acq: 26 Mar 2019 17:48

Instrument :

MSVOA_N

ClientSampled :

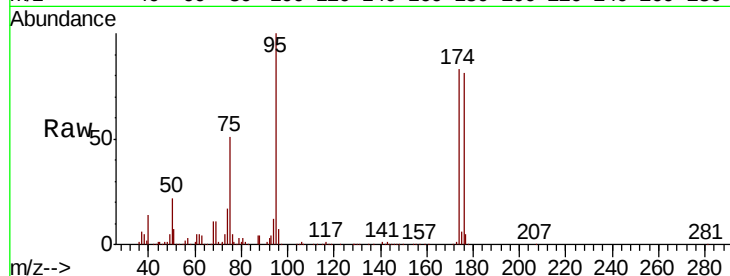
Tot Ion: 95 Resp: 313767

Ion Ratio Lower Upper

95 100

174 83.2 0.0 191.0

176 80.6 0.0 187.4

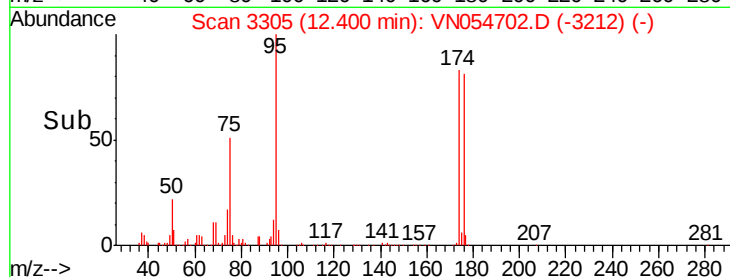


Abundance Ion 94.90 (94.60 to 95.60): VN054702.D (-3291) (-)

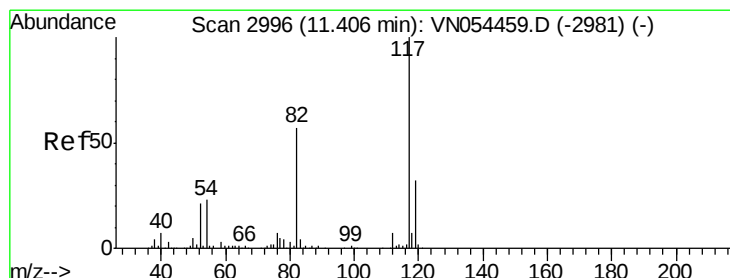
Ion 173.80 (173.50 to 174.50): VN054702.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN054702.D (-3291) (-)

12.40



Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN054702.D

Acq: 26 Mar 2019 17:48

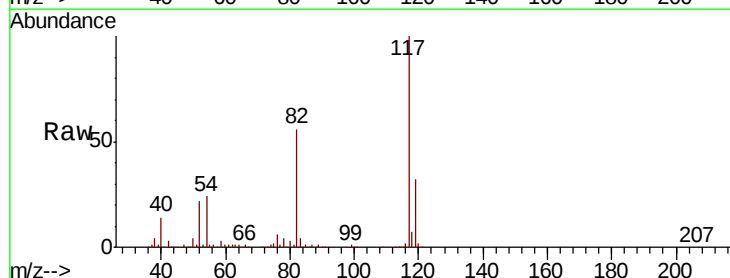
Tgt Ion: 117 Resp: 720522

Ion Ratio Lower Upper

117 100

82 55.9 40.0 60.0

119 31.8 25.8 38.6

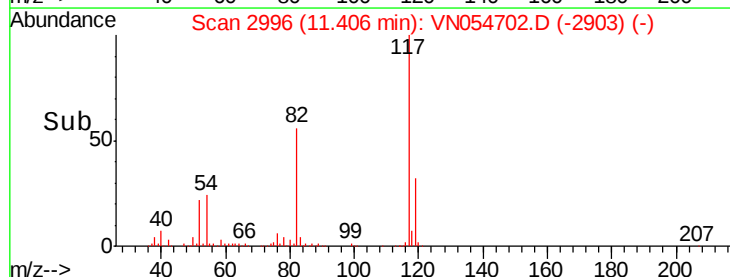


Abundance Ion 116.90 (116.60 to 117.60): VN054702.D (-2981) (-)

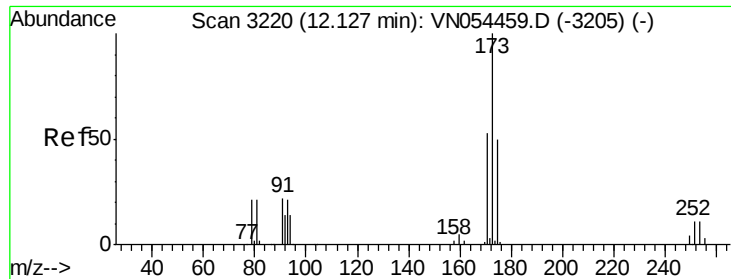
Ion 82.00 (81.70 to 82.70): VN054702.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN054702.D (-2981) (-)

11.41



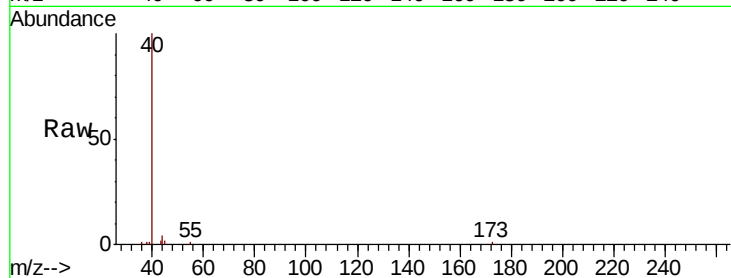
Time--> 11.30 11.40 11.50



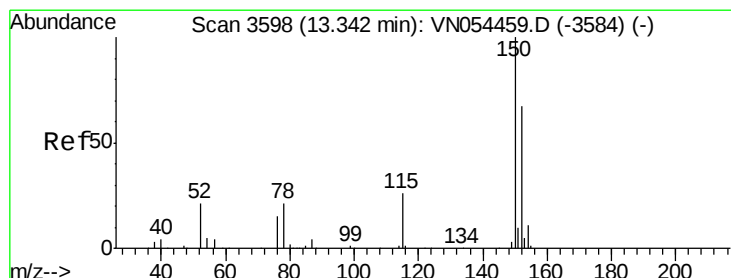
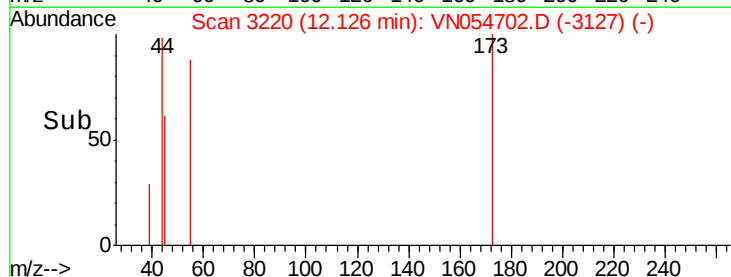
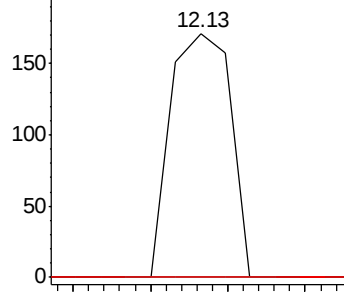
#71
Bromoform
Concen: 2.245 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054702.D
Acq: 26 Mar 2019 17:48

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 92
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#

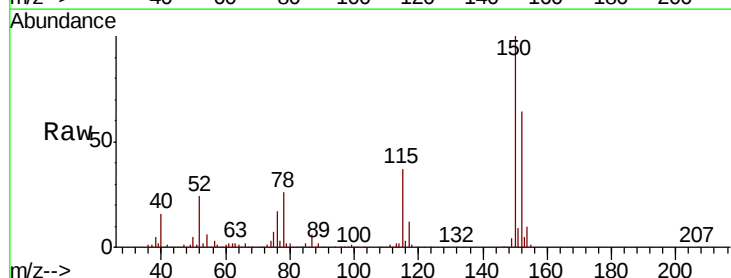


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

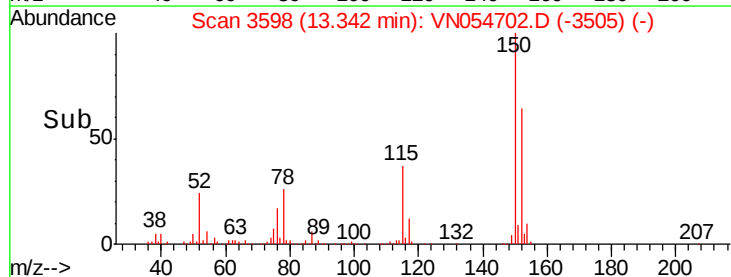
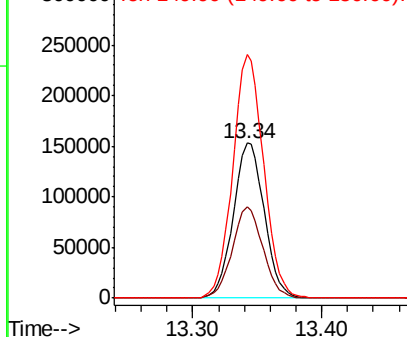


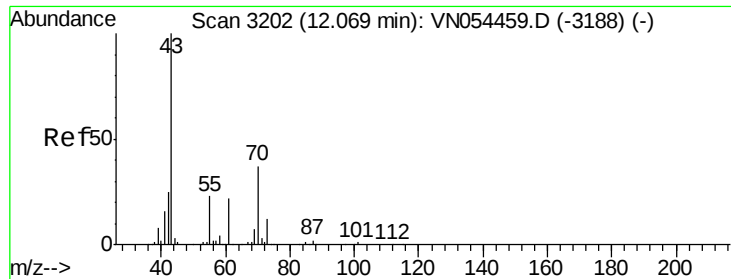
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN054702.D
Acq: 26 Mar 2019 17:48

Tgt Ion:152 Resp: 255168
Ion Ratio Lower Upper
152 100
115 58.4 27.2 81.6
150 156.1 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: 0.463 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN054702.D

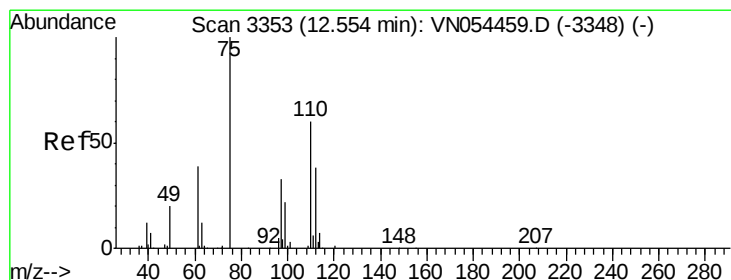
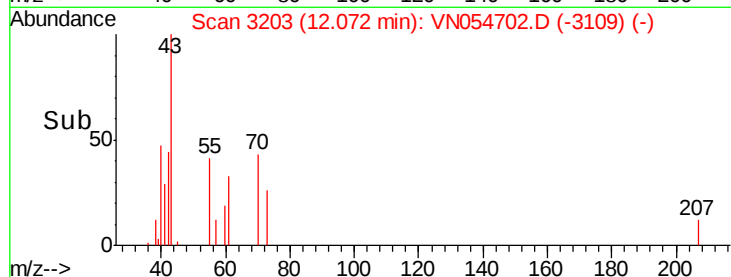
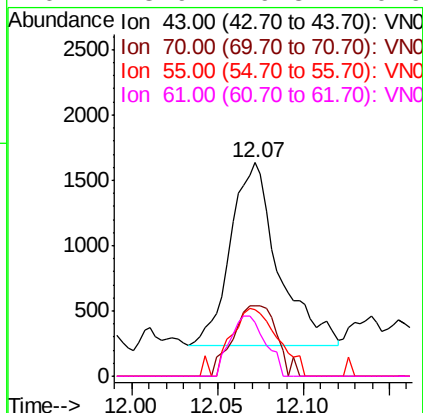
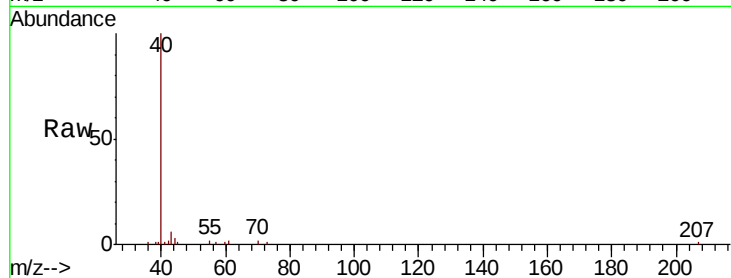
Acq: 26 Mar 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:	43	Resp:	2735
Ion	Ratio	Lower	Upper
43	100		
70	34.9	35.4	53.0#
55	34.9	19.8	29.6#
61	23.9	19.8	29.6



#76

1,2,3-Trichloropropane

Concen: 40.643 ug/l

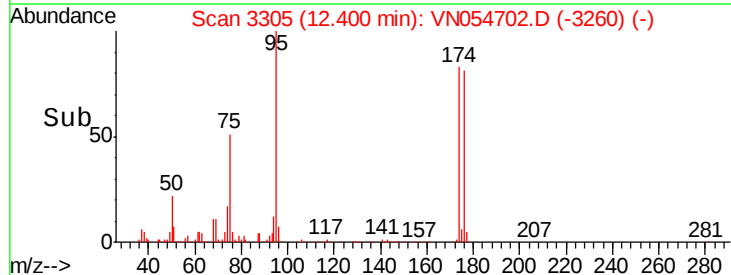
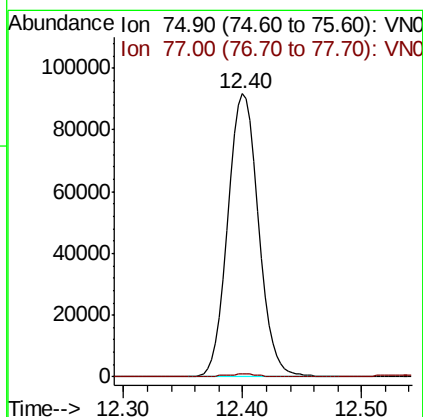
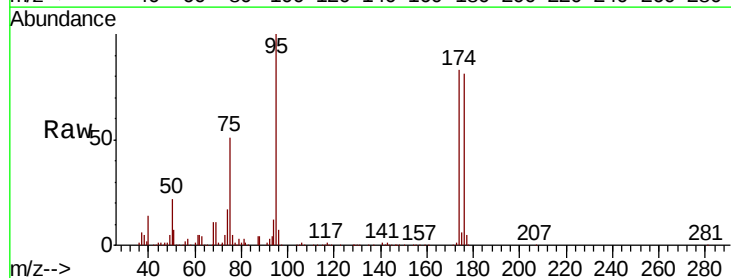
RT: 12.40 min Scan# 3305

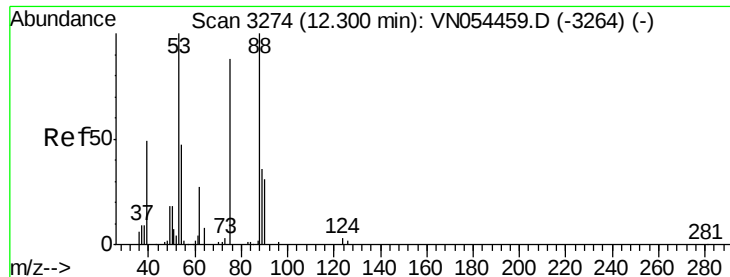
Delta R.T. -0.15 min

Lab File: VN054702.D

Acq: 26 Mar 2019 17:48

Tgt Ion:	75	Resp:	164569
Ion	Ratio	Lower	Upper
75	100		
77	1.0	0.0	0.0#

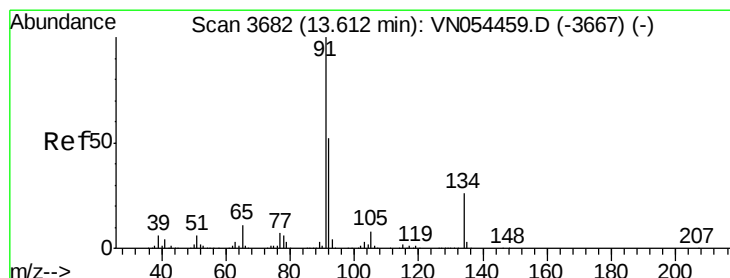
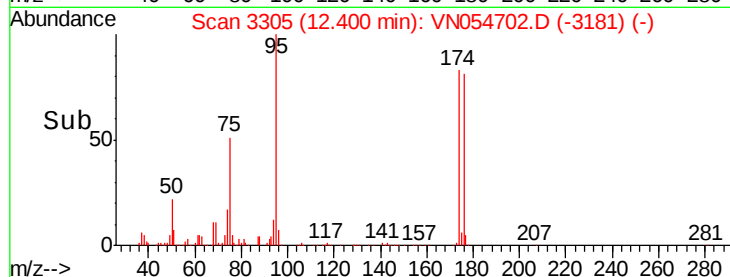
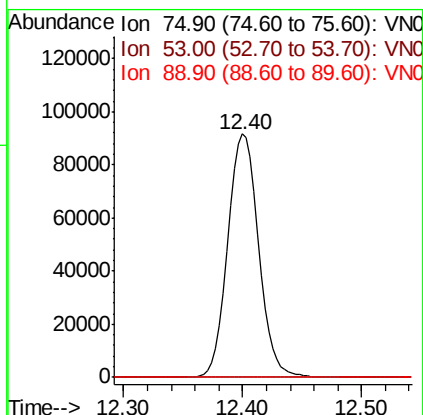
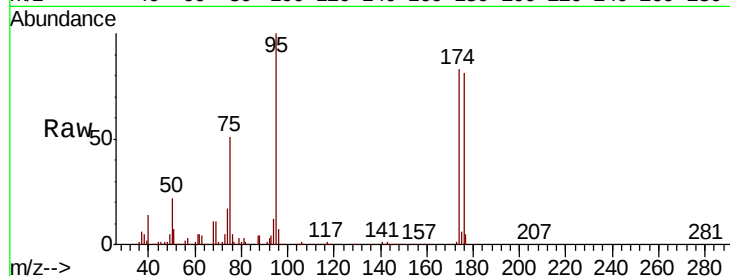




#81
trans-1,4-Dichloro-2-butene
Concen: 134.395 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN054702.D
Acq: 26 Mar 2019 17:48

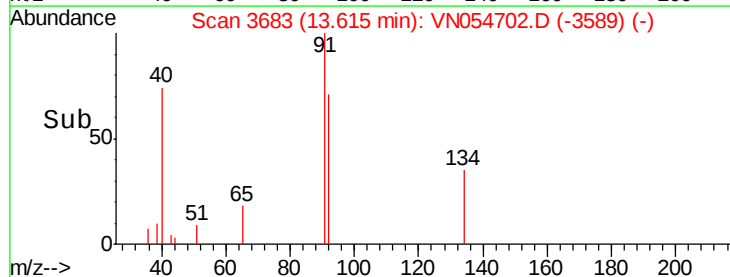
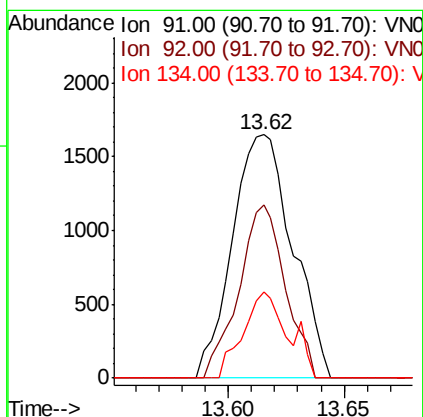
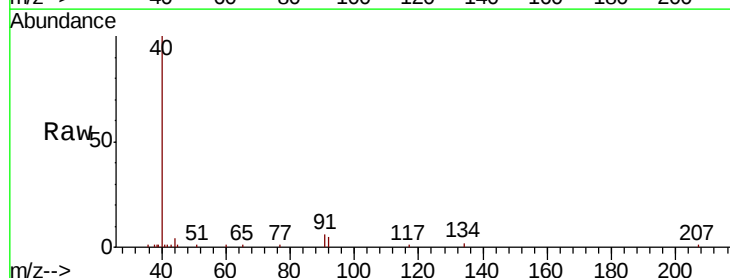
Instrument :
MSVOA_N
ClientSampleId :

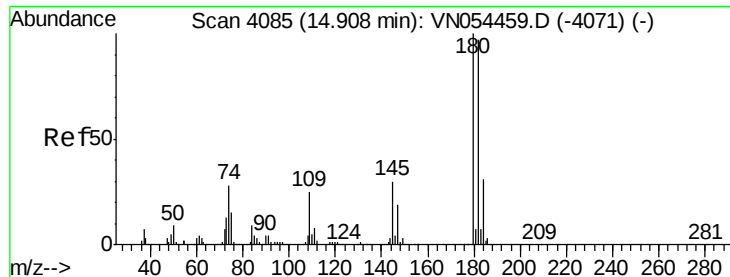
Tot Ion: 75 Resp: 164569
Ion Ratio Lower Upper
75 100
53 0.1 76.2 114.2#
89 0.0 39.2 58.8#



#89
n-Butylbenzene
Concen: 0.233 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054702.D
Acq: 26 Mar 2019 17:48

Tgt Ion: 91 Resp: 2979
Ion Ratio Lower Upper
91 100
92 55.0 26.2 78.6
134 26.6 14.3 42.9





#93

1,2,4-Trichlorobenzene

Concen: 0.621 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN054702.D

Acq: 26 Mar 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

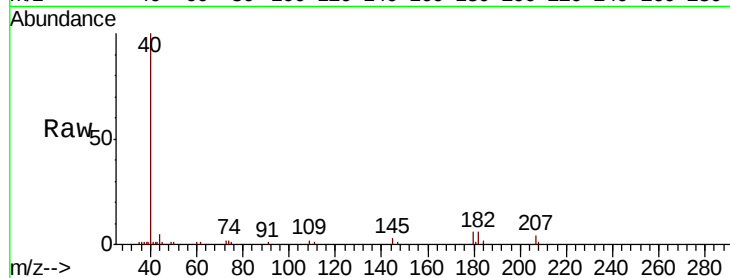
Tot Ion:180 Resp: 2532

Ion Ratio Lower Upper

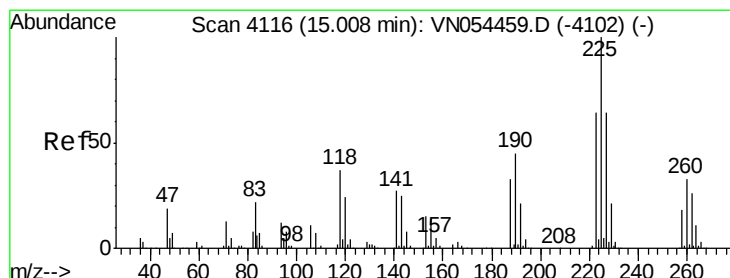
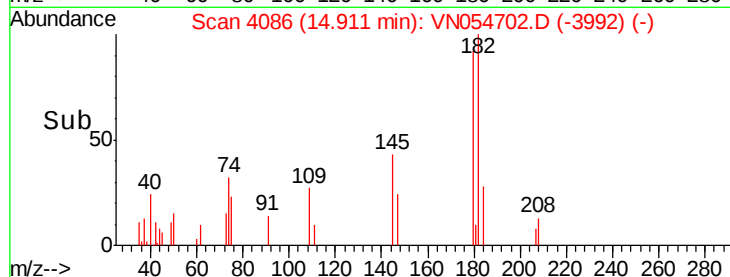
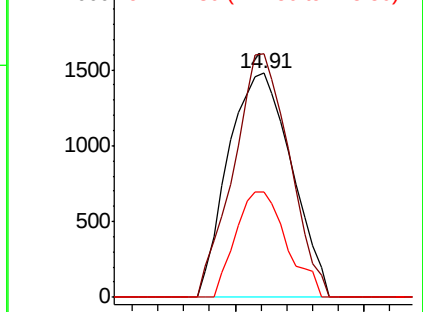
180 100

182 95.5 48.0 144.2

145 37.6 14.2 42.8



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. 0.00 min

Lab File: VN054702.D

Acq: 26 Mar 2019 17:48

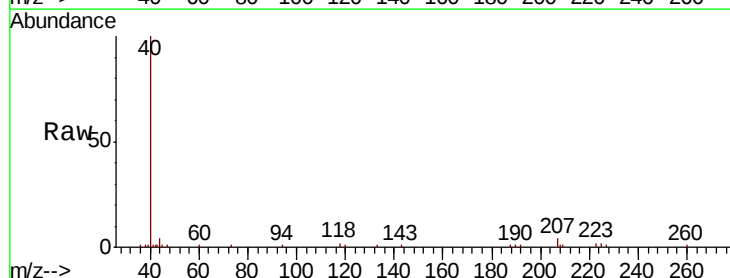
Tgt Ion:225 Resp: 799

Ion Ratio Lower Upper

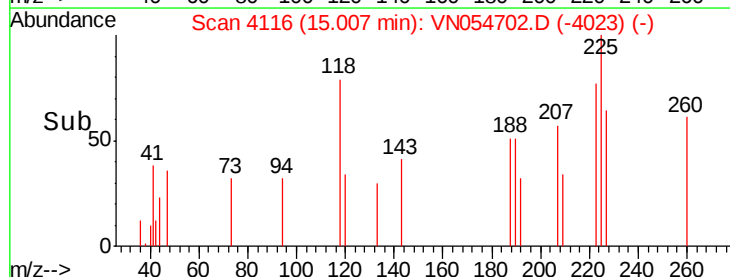
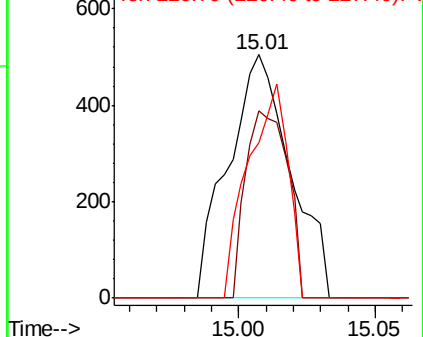
225 100

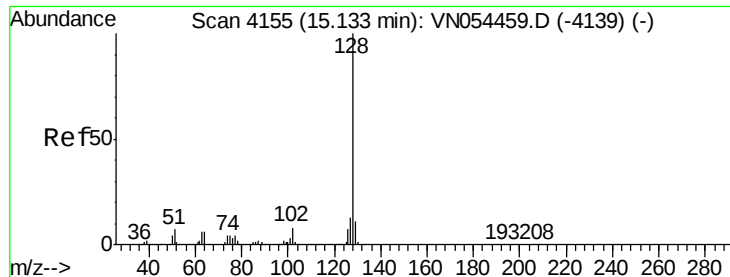
223 51.8 31.1 93.5

227 56.6 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: 1.080 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054702.D

Acq: 26 Mar 2019 17:48

Instrument :

MSVOA_N

ClientSampleId :

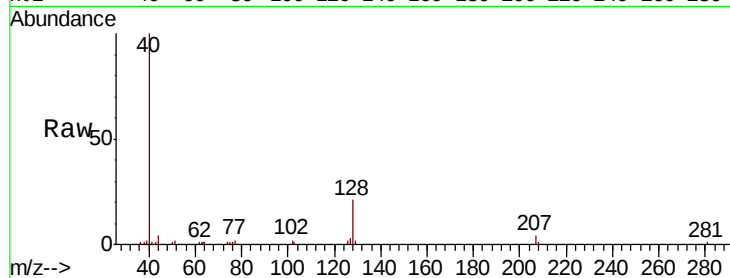
Tot Ion:128 Resp: 9831

Ion Ratio Lower Upper

128 100

127 14.6 10.1 15.1

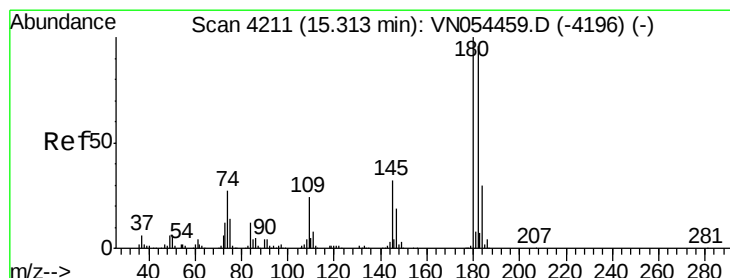
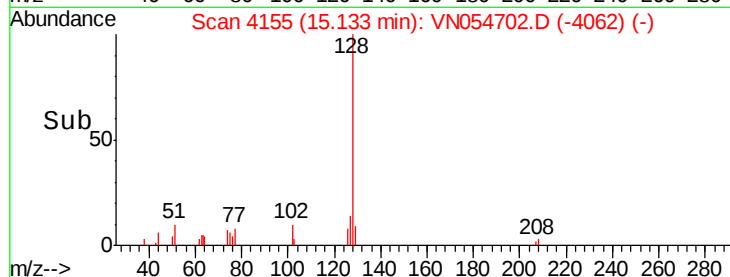
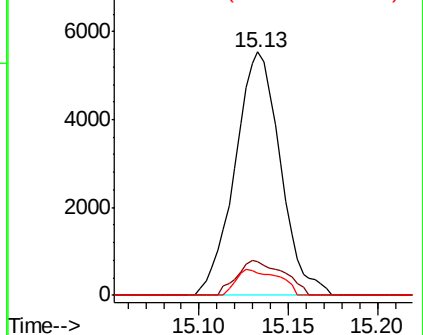
129 9.8 8.7 13.1



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: 0.864 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN054702.D

Acq: 26 Mar 2019 17:48

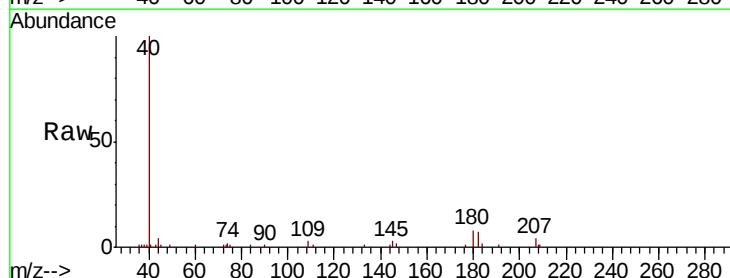
Tgt Ion:180 Resp: 3509

Ion Ratio Lower Upper

180 100

182 101.9 47.5 142.6

145 29.3 14.8 44.3



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

