

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN103119\
 Data File : VN059026.D
 Acq On : 31 Oct 2019 9:49
 Operator : JC/SP
 Sample : VN1031WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 01:07:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 19 00:16:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	436962	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	684777	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	604811	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	218990	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	302631	47.22	ug/l	0.00
Spiked Amount			Recovery	=	94.44%	
35) Dibromofluoromethane	7.57	113	225101	50.00	ug/l	0.00
Spiked Amount			Recovery	=	100.00%	
50) Toluene-d8	10.08	98	858105	49.10	ug/l	0.00
Spiked Amount			Recovery	=	98.20%	
62) 4-Bromofluorobenzene	12.40	95	272928	42.53	ug/l	0.00
Spiked Amount			Recovery	=	85.06%	

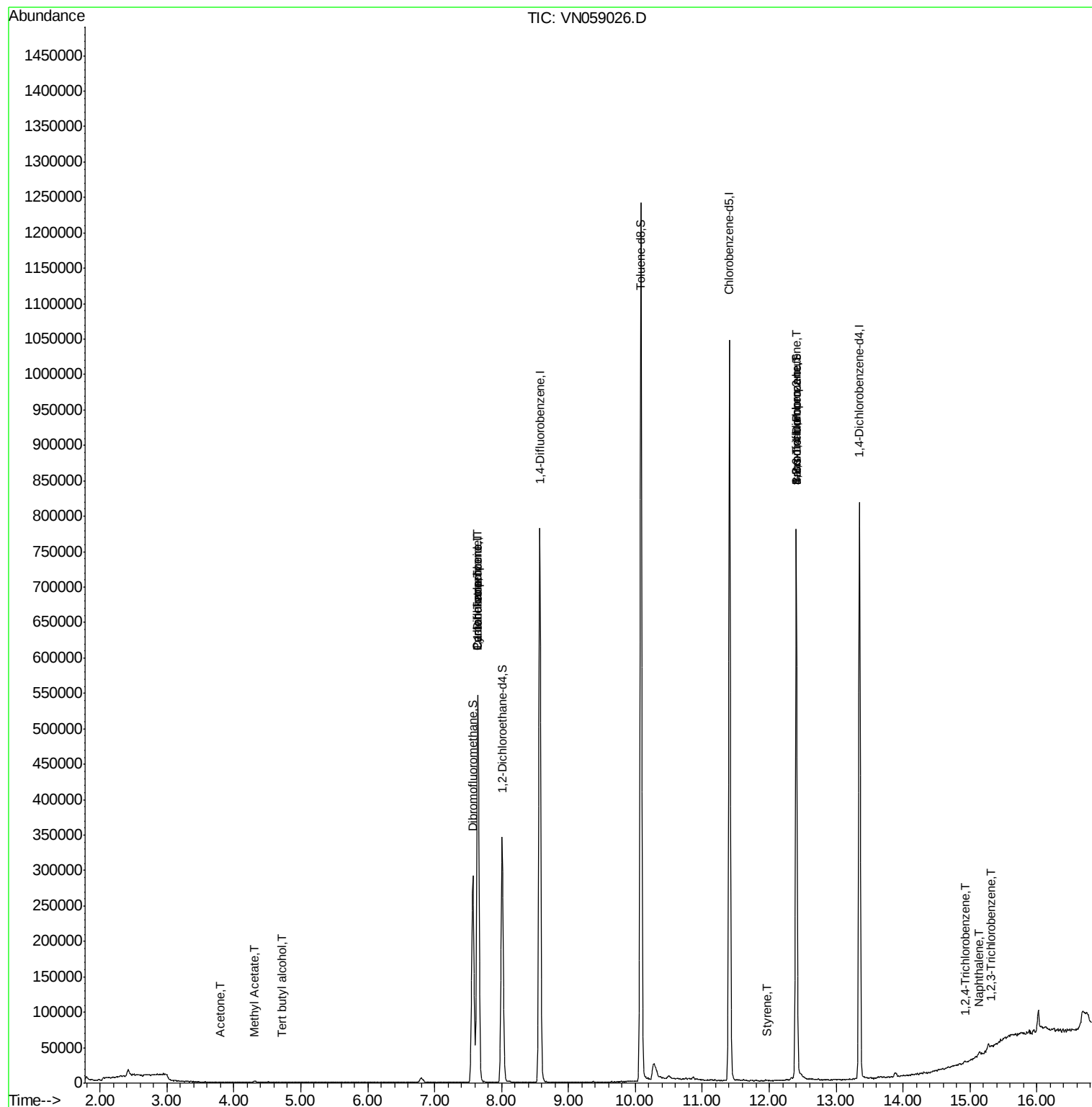
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	246	0.231	ug/l #	72
16) Acetone	3.80	43	729	0.230	ug/l #	46
18) Methyl Acetate	4.30	43	1887	0.262	ug/l	92
31) Cyclohexane	7.64	56	9174	0.996	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	35240	5.027	ug/l #	50
38) Carbon Tetrachloride	7.65	117	42981	5.951	ug/l #	17
70) Styrene	11.97	104	299	1.734	ug/l #	24
71) Bromoform	12.41	173	1477	0.410	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	141945	27.968	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	141945	72.858	ug/l #	10
93) 1,2,4-Trichlorobenzene	14.92	180	748	2.683	ug/l	94
95) Naphthalene	15.14	128	2866	2.444	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.30	180	923	2.601	ug/l	76

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

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

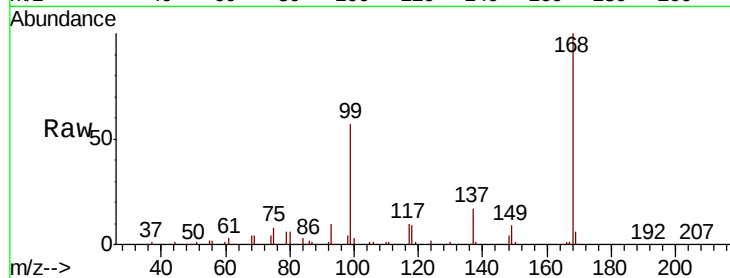
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 436962

Ion Ratio Lower Upper

168 100

99 56.9 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

200000

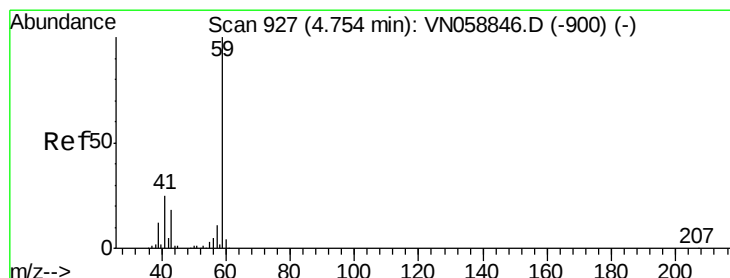
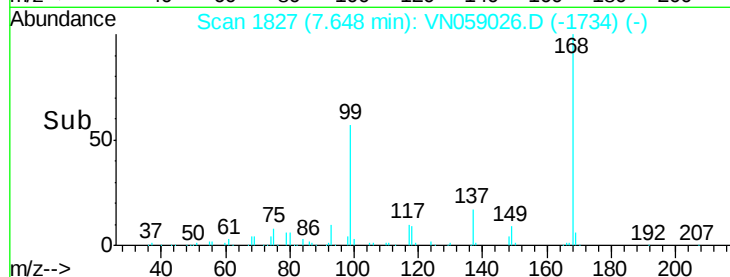
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#11

Tert butyl alcohol

Concen: 0.231 ug/l

RT: 4.71 min Scan# 914

Delta R.T. -0.04 min

Lab File: VN059026.D

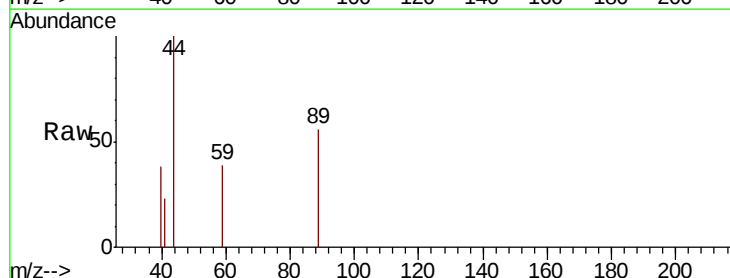
Acq: 31 Oct 2019 9:49

Tgt Ion: 59 Resp: 246

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.71

300

250

200

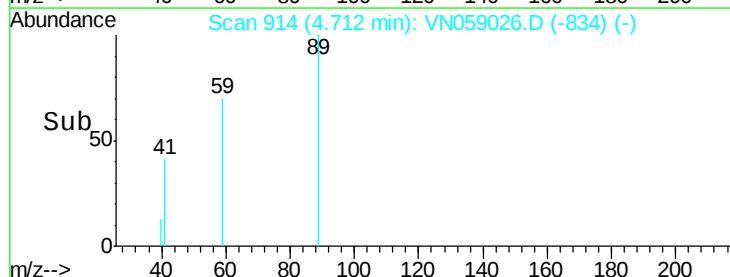
150

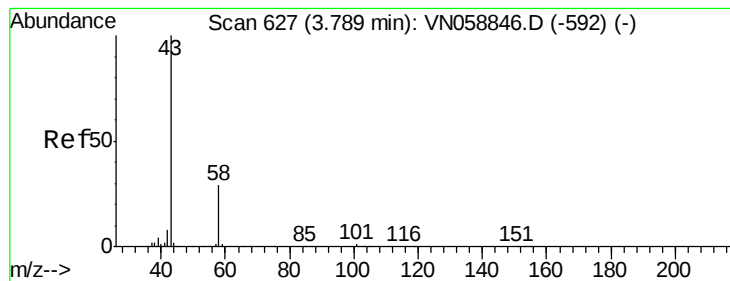
100

50

0

Time--> 4.69 4.70 4.71 4.72 4.73





#16

Acetone

Concen: 0.230 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

Instrument :

MSVOA_N

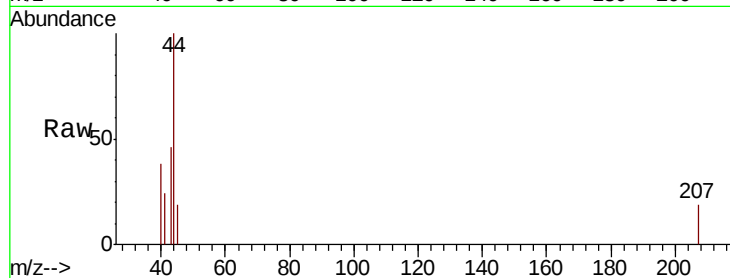
ClientSampleId :

Tot Ion: 43 Resp: 729

Ion Ratio Lower Upper

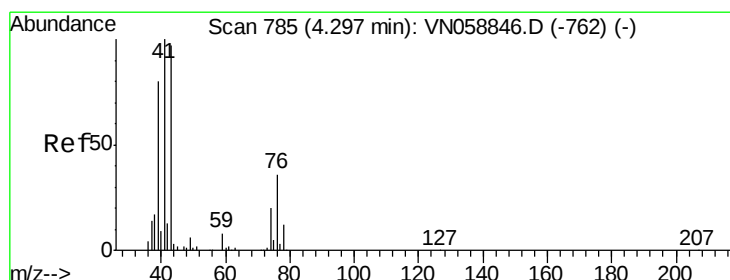
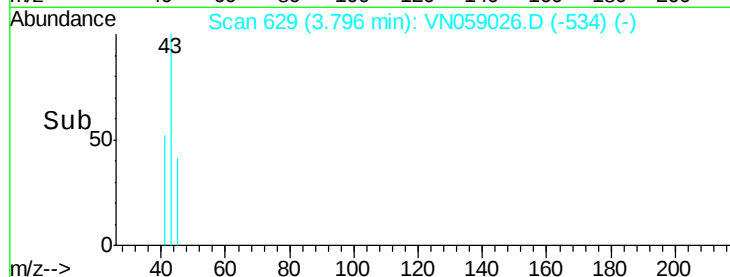
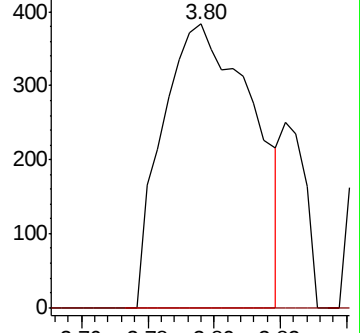
43 100

58 0.0 23.1 34.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 0.262 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.01 min

Lab File: VN059026.D

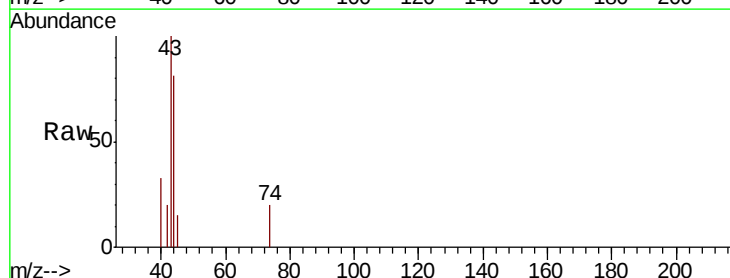
Acq: 31 Oct 2019 9:49

Tgt Ion: 43 Resp: 1887

Ion Ratio Lower Upper

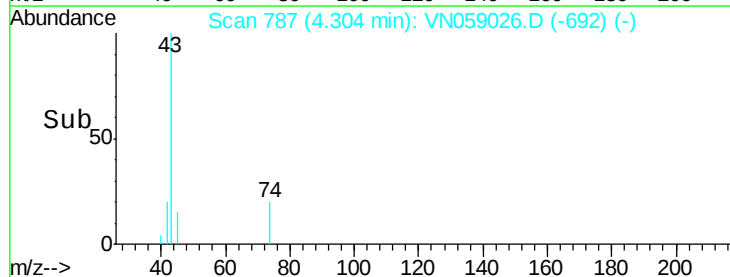
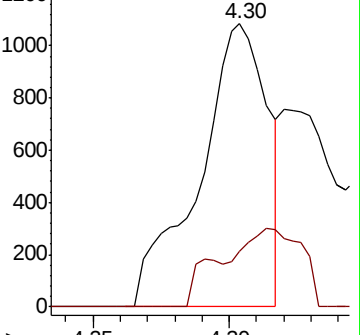
43 100

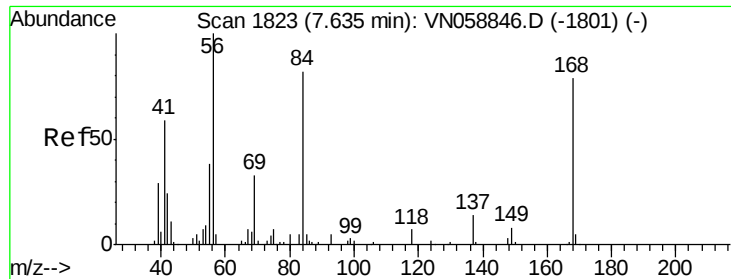
74 25.2 17.1 25.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#31

Cyclohexane

Concen: 0.996 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

Instrument :

MSVOA_N

ClientSampled :

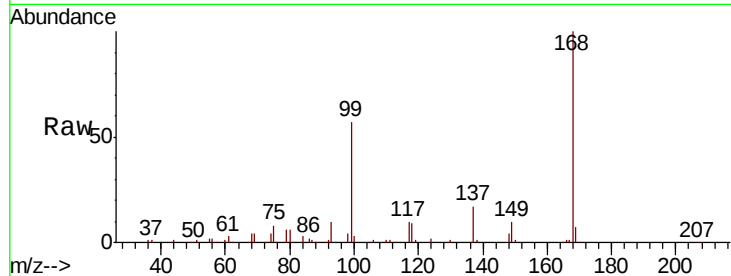
Tot Ion: 56 Resp: 9174

Ion Ratio Lower Upper

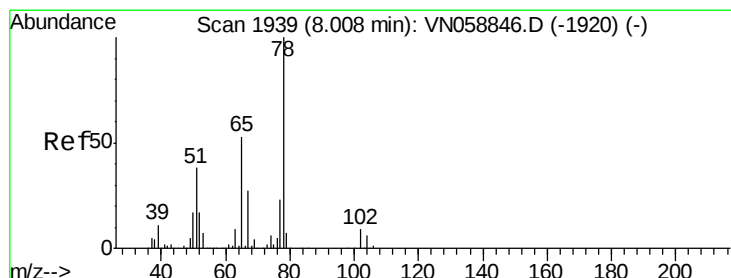
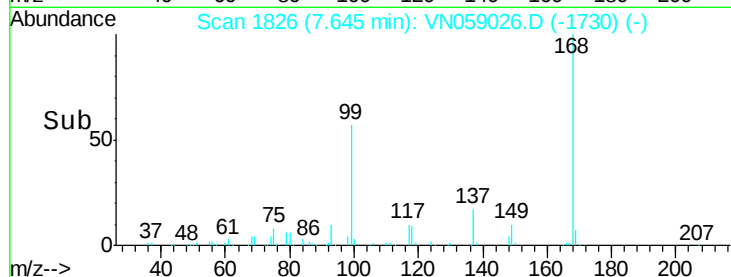
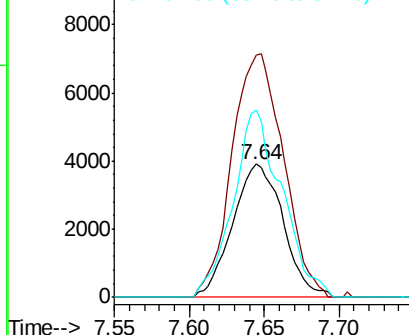
56 100

69 182.1 26.2 39.4#

84 141.1 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 47.222 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059026.D

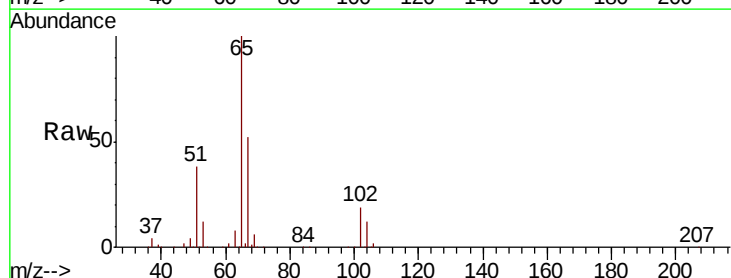
Acq: 31 Oct 2019 9:49

Tgt Ion: 65 Resp: 302631

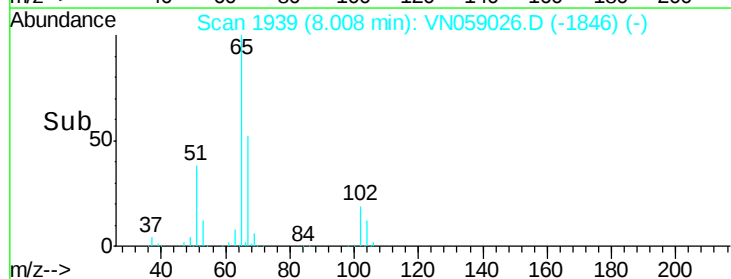
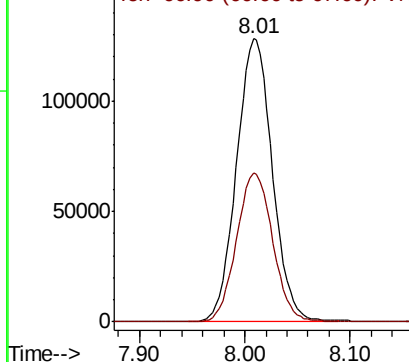
Ion Ratio Lower Upper

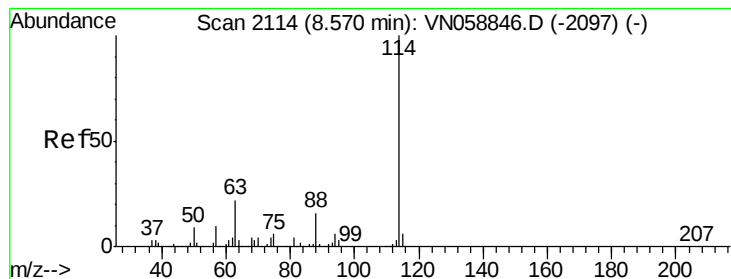
65 100

67 53.1 0.0 103.2



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

Instrument :

MSVOA_N

ClientSampleId :

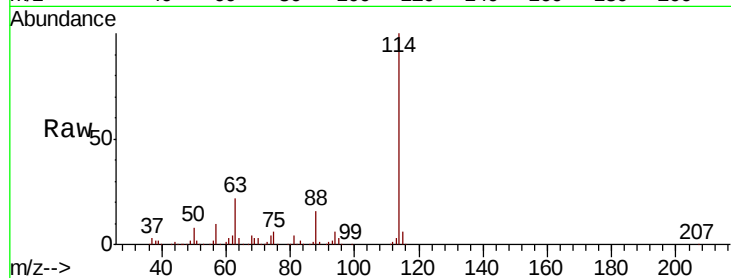
Tot Ion:114 Resp: 684777

Ion Ratio Lower Upper

114 100

63 22.2 0.0 44.4

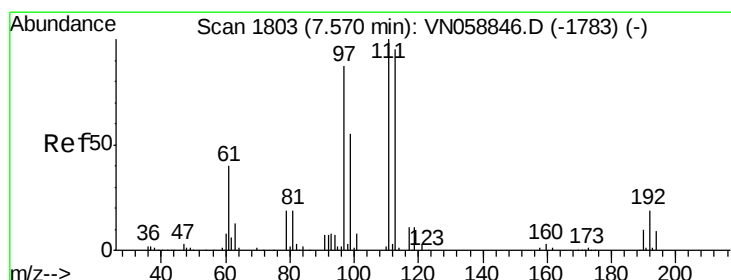
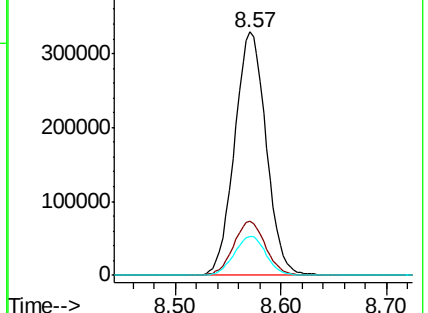
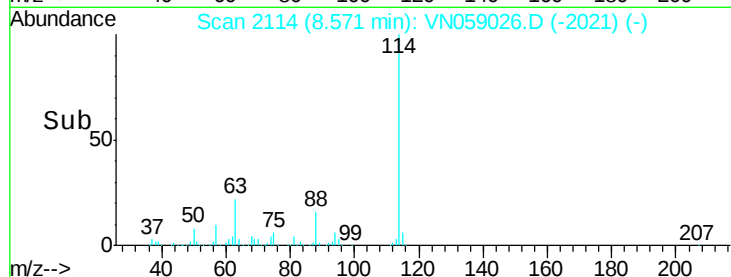
88 16.2 0.0 31.4



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: 49.998 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

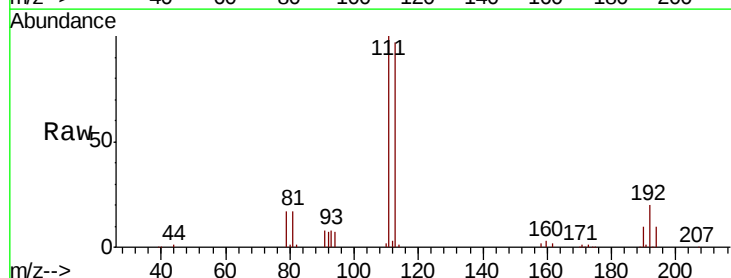
Tgt Ion:113 Resp: 225101

Ion Ratio Lower Upper

113 100

111 101.4 82.0 123.0

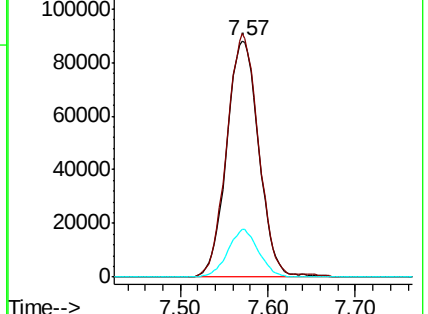
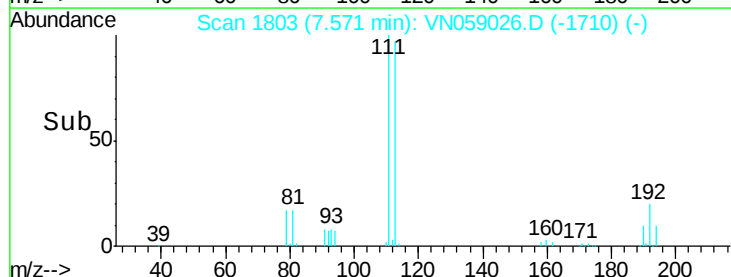
192 19.4 15.0 22.6

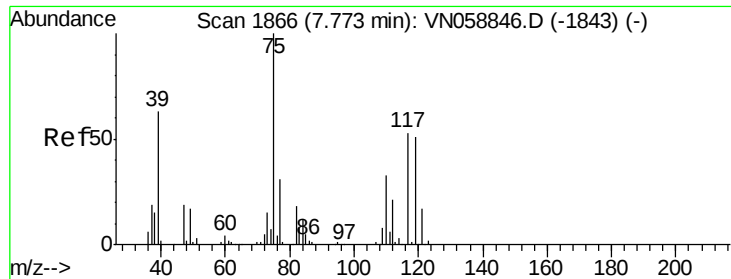


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

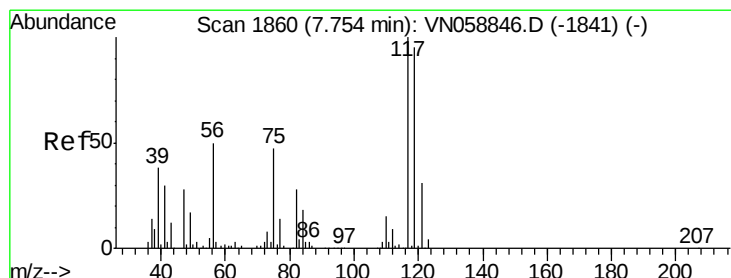
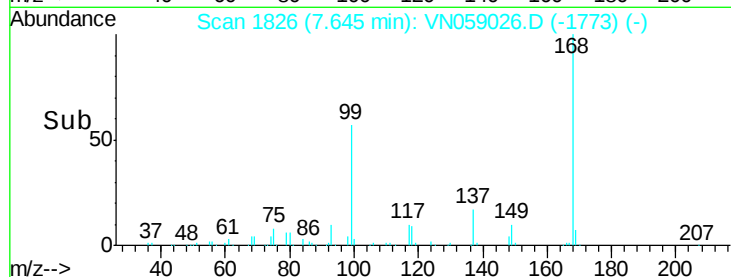
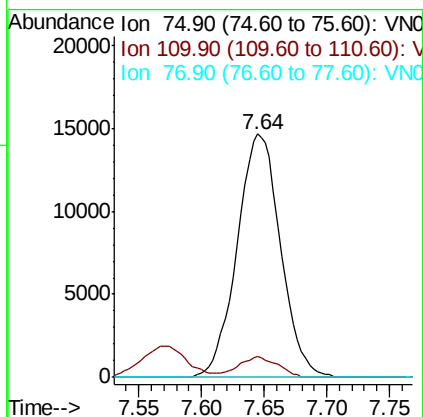
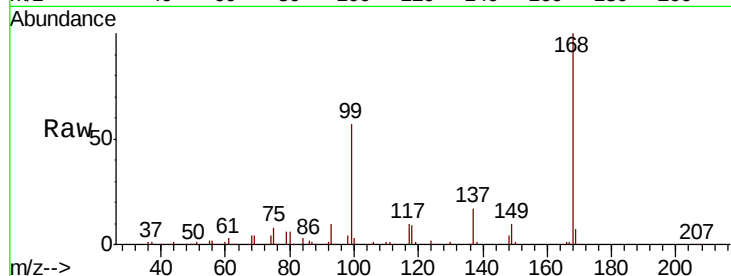




#36
 1,1-Dichloropropene
 Concen: 5.027 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059026.D
 Acq: 31 Oct 2019 9:49

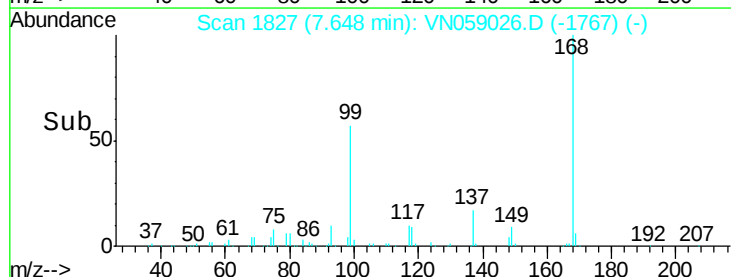
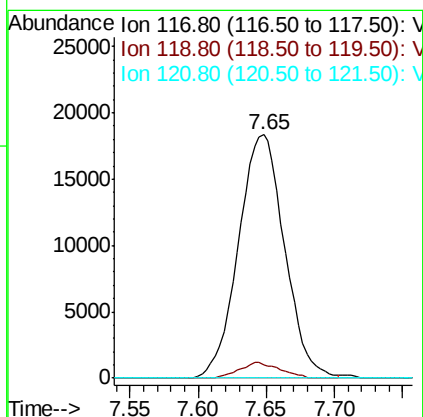
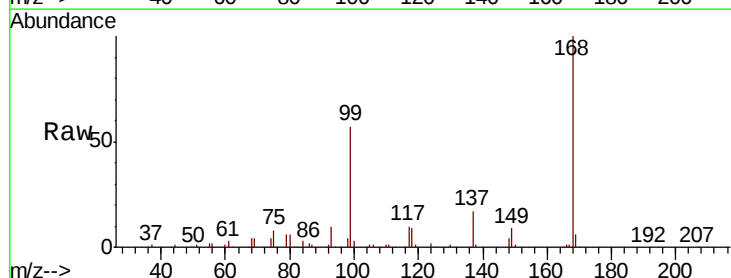
Instrument :
 MSVOA_N
 ClientSampled :

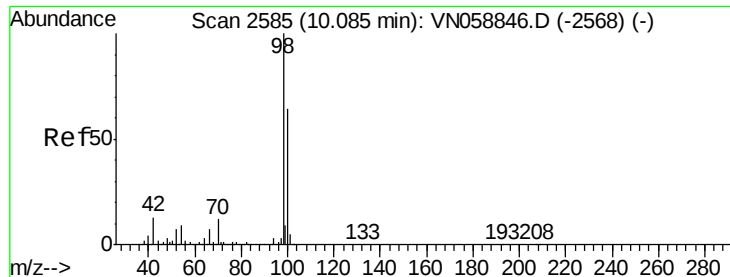
Tot Ion: 75 Resp: 35240
 Ion Ratio Lower Upper
 75 100
 110 7.8 16.3 48.9#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 5.951 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN059026.D
 Acq: 31 Oct 2019 9:49

Tgt Ion: 117 Resp: 42981
 Ion Ratio Lower Upper
 117 100
 119 5.6 75.7 113.5#
 121 0.0 25.0 37.6#





#50

Toluene-d8

Concen: 49.099 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

Instrument :

MSVOA_N

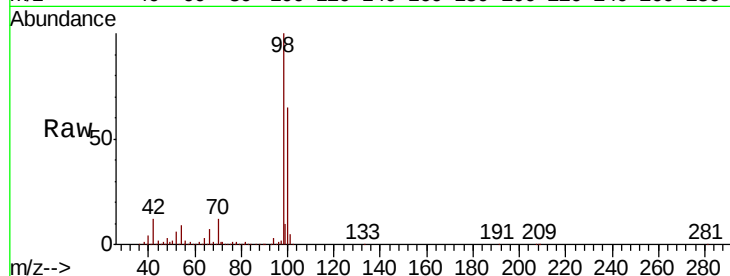
ClientSampled :

Tot Ion: 98 Resp: 858105

Ion Ratio Lower Upper

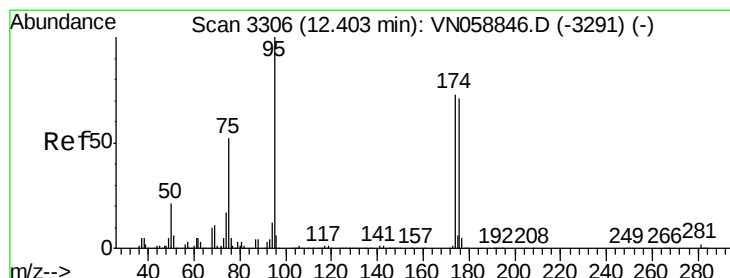
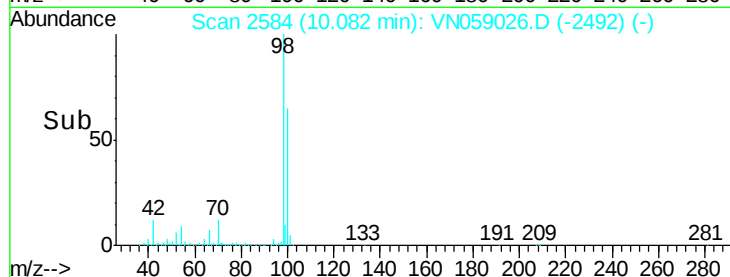
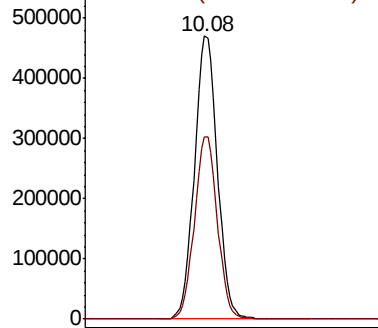
98 100

100 64.5 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#62

4-Bromofluorobenzene

Concen: 42.525 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

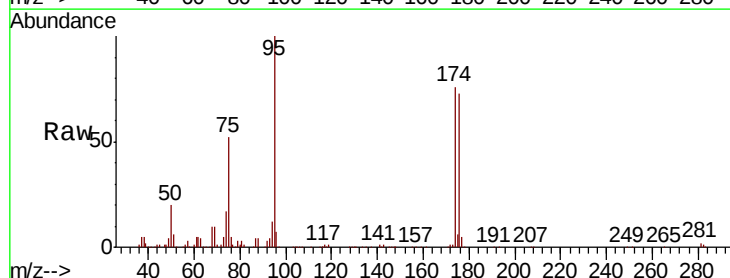
Tgt Ion: 95 Resp: 272928

Ion Ratio Lower Upper

95 100

174 76.6 0.0 147.6

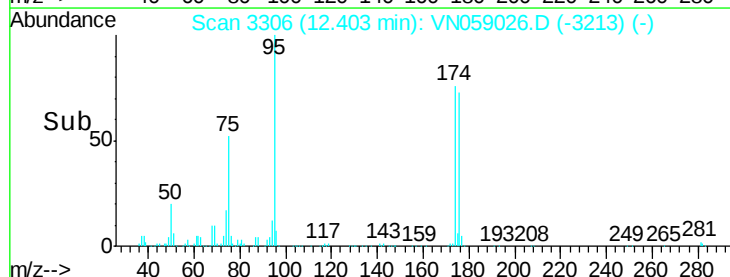
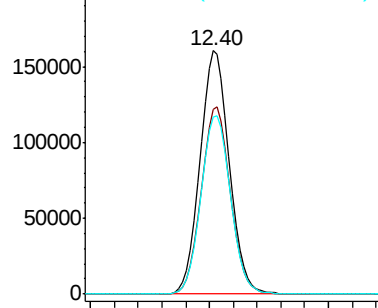
176 74.5 0.0 143.2

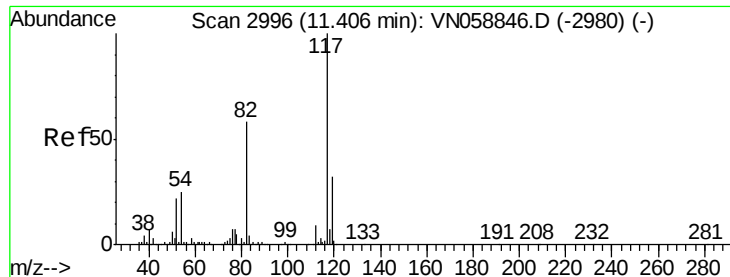


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

Instrument :

MSVOA_N

ClientSampled :

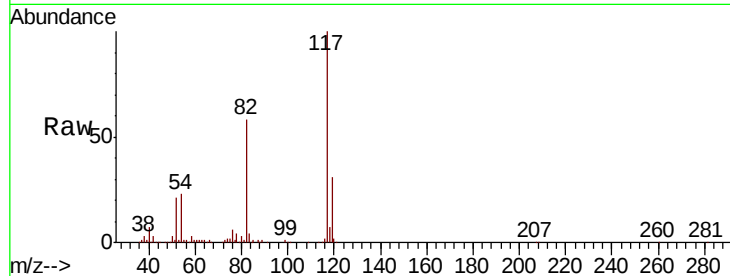
Tot Ion:117 Resp: 604811

Ion Ratio Lower Upper

117 100

82 57.6 46.6 69.8

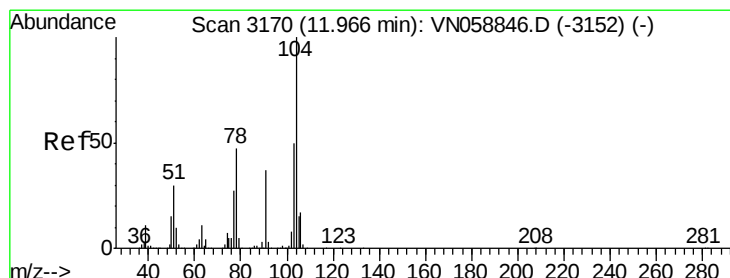
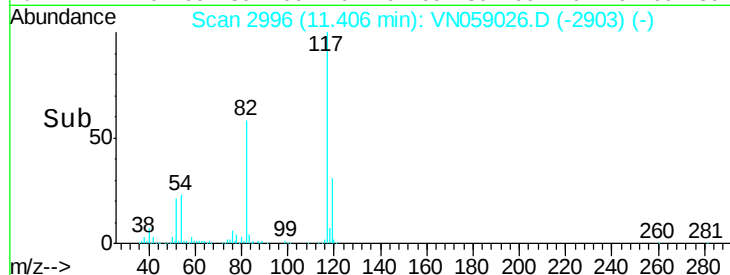
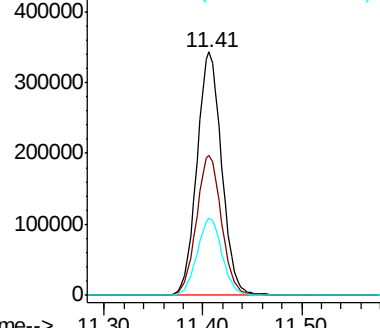
119 31.5 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): V



#70

Styrene

Concen: 1.734 ug/l

RT: 11.97 min Scan# 3172

Delta R.T. 0.01 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

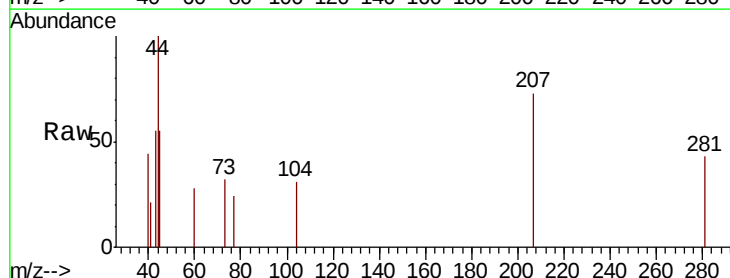
Tgt Ion:104 Resp: 299

Ion Ratio Lower Upper

104 100

78 0.0 42.8 64.2#

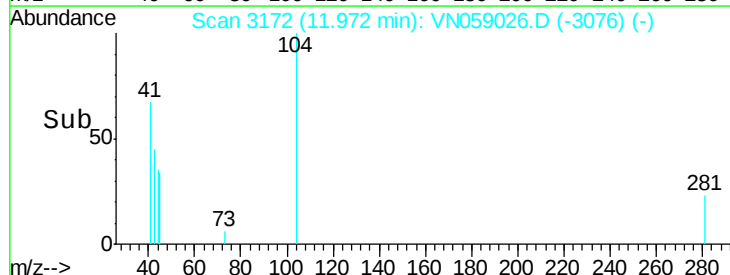
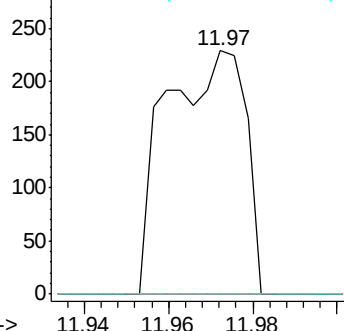
103 0.0 44.3 66.5#

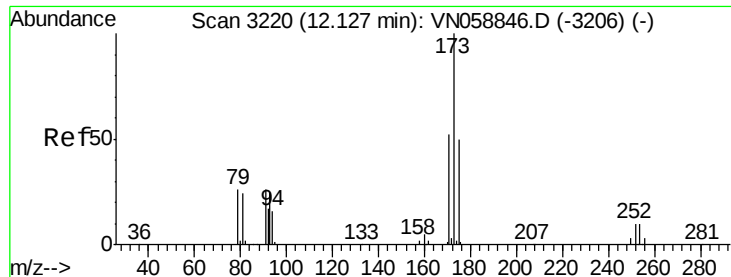


Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN0

Ion 103.00 (102.70 to 103.70): V





#71

Bromoform

Concen: 0.410 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

Instrument :

MSVOA_N

ClientSampled :

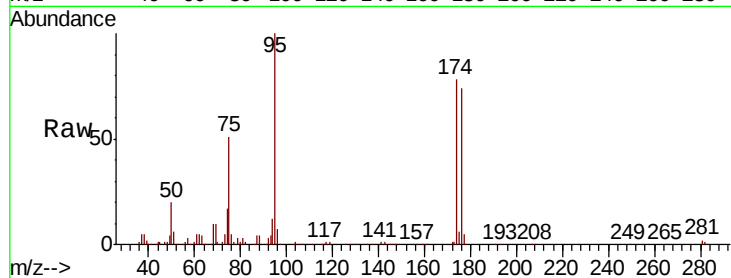
Tot Ion:173 Resp: 1477

Ion Ratio Lower Upper

173 100

175 792.3 24.7 74.1#

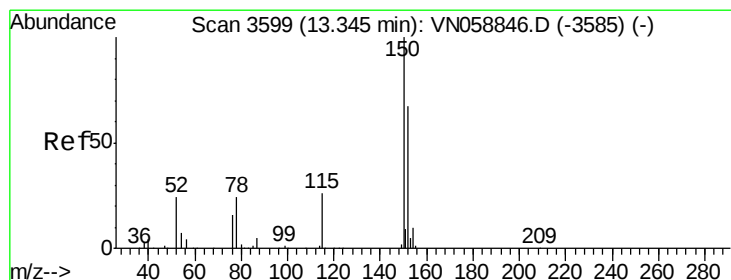
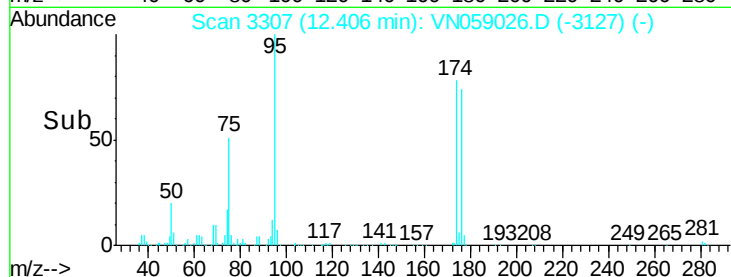
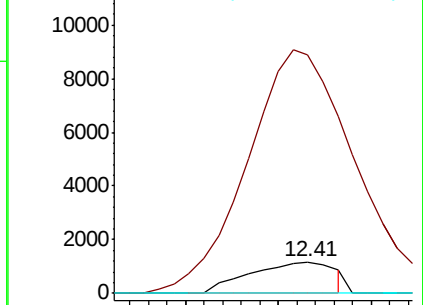
254 0.0 0.0 0.0



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: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

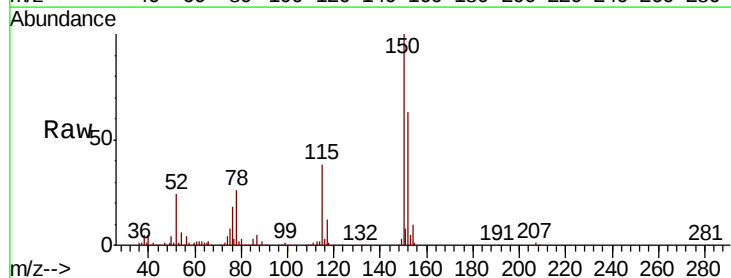
Tgt Ion:152 Resp: 218990

Ion Ratio Lower Upper

152 100

115 59.4 30.5 91.5

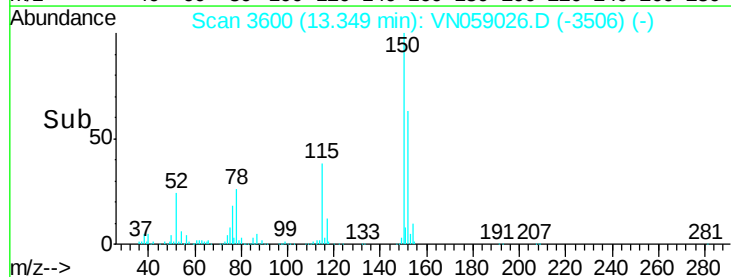
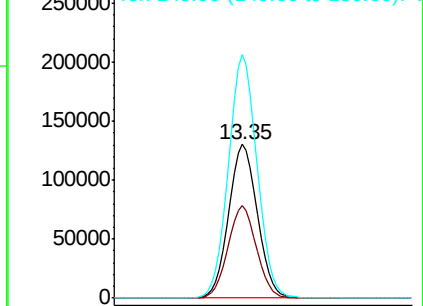
150 157.3 0.0 344.4

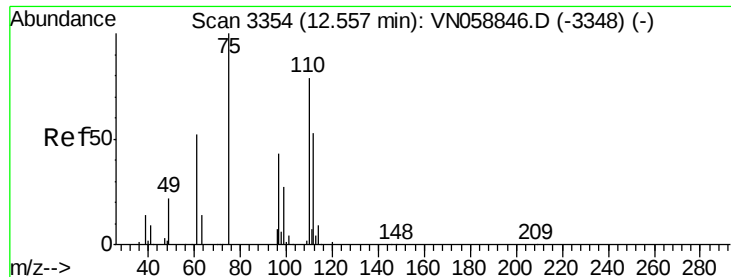


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 27.968 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

Instrument :

MSVOA_N

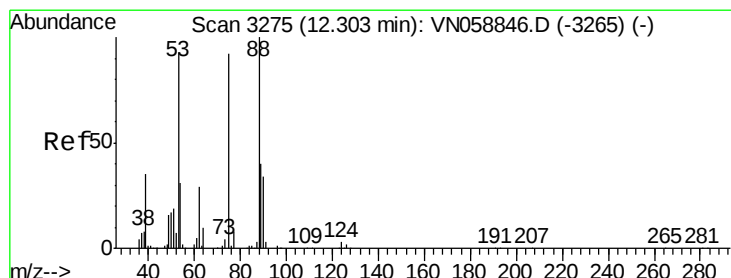
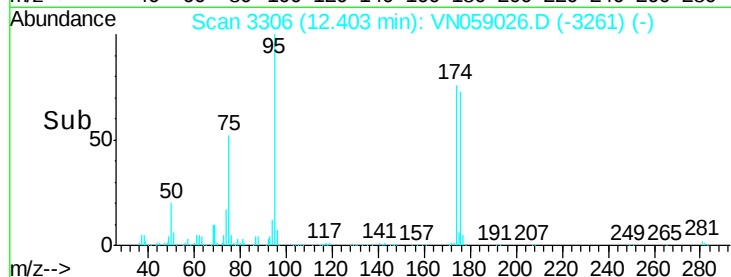
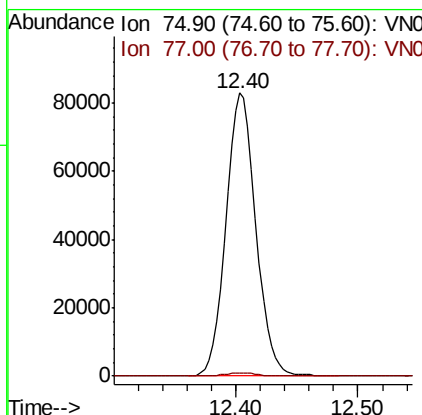
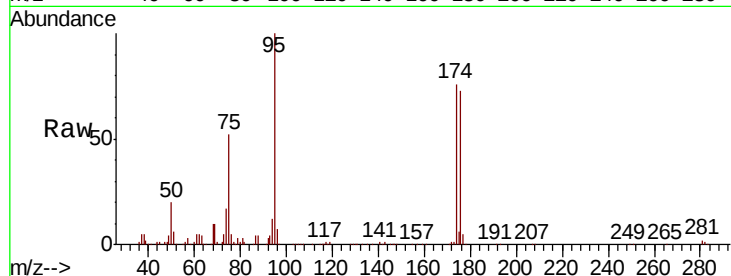
ClientSampled :

Tot Ion: 75 Resp: 141945

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 72.858 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

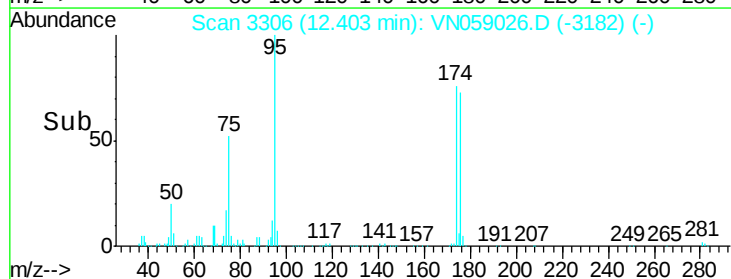
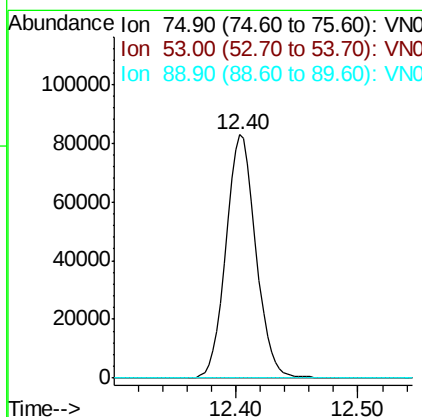
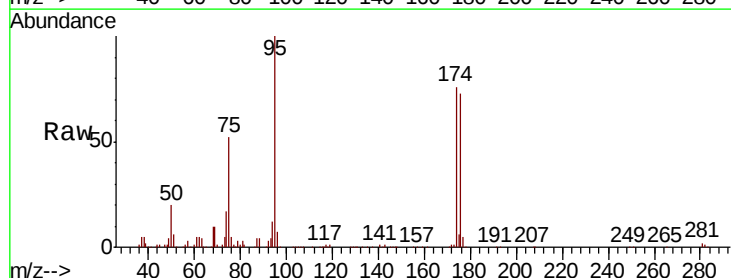
Tgt Ion: 75 Resp: 141945

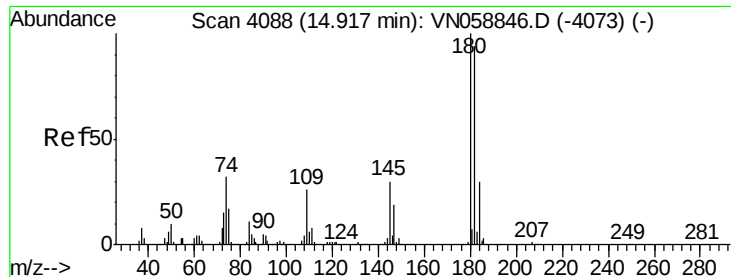
Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

89 0.0 35.4 53.0#

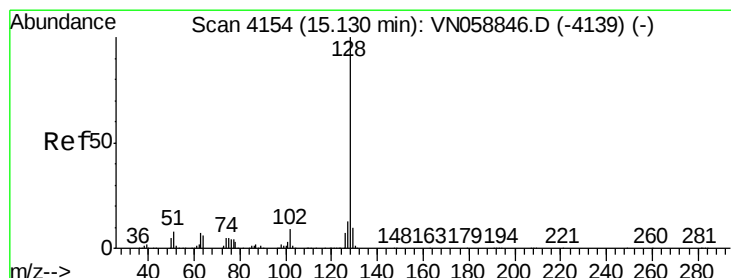
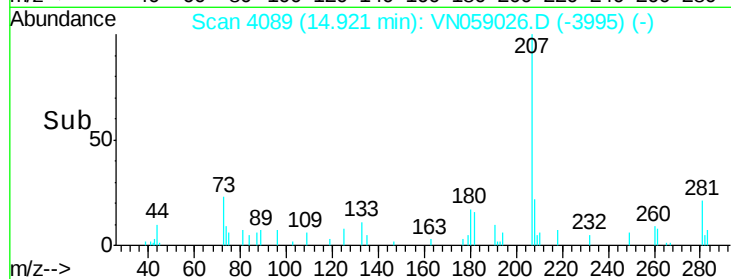
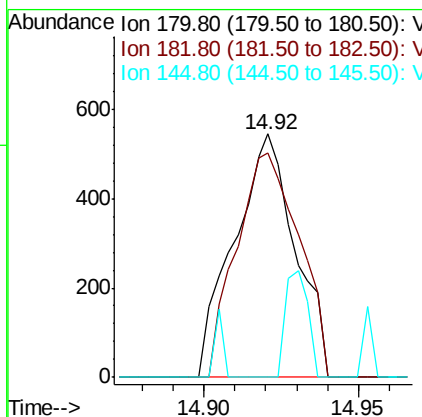
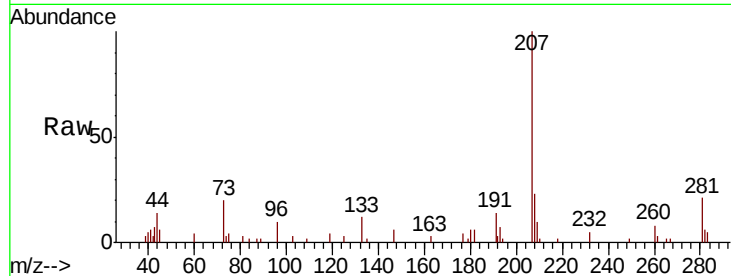




#93
 1,2,4-Trichlorobenzene
 Concen: 2.683 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN059026.D
 Acq: 31 Oct 2019 9:49

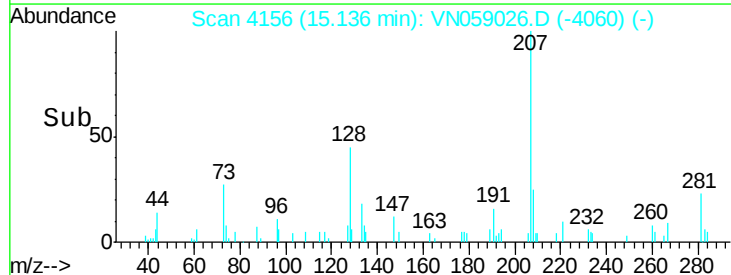
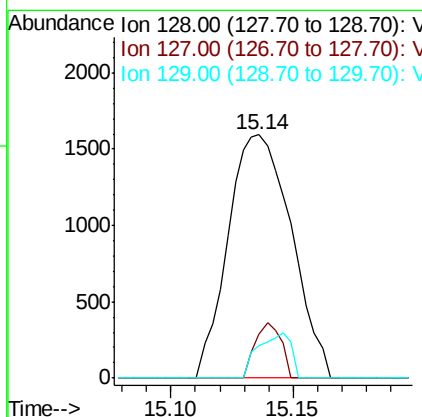
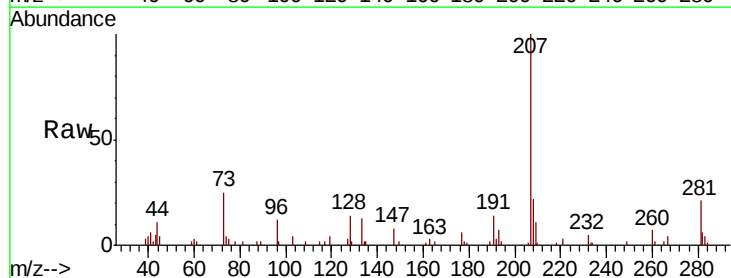
Instrument :
 MSVOA_N
 ClientSampleId :

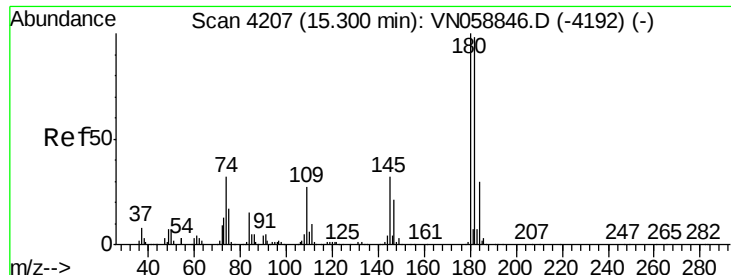
Tot Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.3	142.0
145	16.2	15.3	45.8



#95
 Naphthalene
 Concen: 2.444 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.01 min
 Lab File: VN059026.D
 Acq: 31 Oct 2019 9:49

Tgt Ion	Ratio	Lower	Upper
128	100		
127	9.2	10.2	15.2#
129	9.5	8.4	12.6





#96

1,2,3-Trichlorobenzene

Concen: 2.601 ug/l

RT: 15.30 min Scan# 4208

Delta R.T. 0.00 min

Lab File: VN059026.D

Acq: 31 Oct 2019 9:49

Instrument :

MSVOA_N

ClientSampleId :

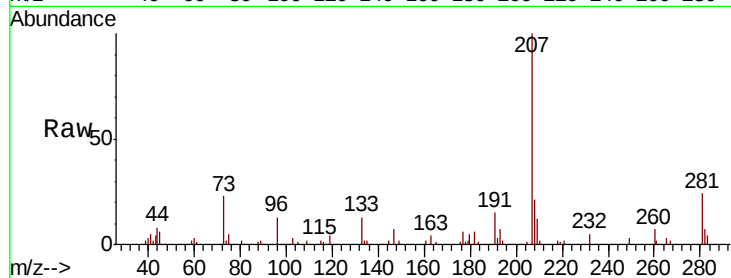
Tot Ion:180 Resp: 923

Ion Ratio Lower Upper

180 100

182 118.5 47.9 143.7

145 45.7 15.9 47.7



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

