

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111219\
 Data File : VN059190.D
 Acq On : 12 Nov 2019 15:07
 Operator : JC/SP
 Sample : K5799-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 13 05:40:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N110619W.M
 Quant Title : SW846 8260
 QLast Update : Thu Nov 07 04:00:41 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	414896	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	640590	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	554422	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	196274	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	276603	54.23	ug/l	0.00
Spiked Amount			Recovery	=	108.46%	
35) Dibromofluoromethane	7.57	113	210291	54.98	ug/l	0.00
Spiked Amount			Recovery	=	109.96%	
50) Toluene-d8	10.08	98	809033	53.70	ug/l	0.00
Spiked Amount			Recovery	=	107.40%	
62) 4-Bromofluorobenzene	12.40	95	254080	46.77	ug/l	0.00
Spiked Amount			Recovery	=	93.54%	

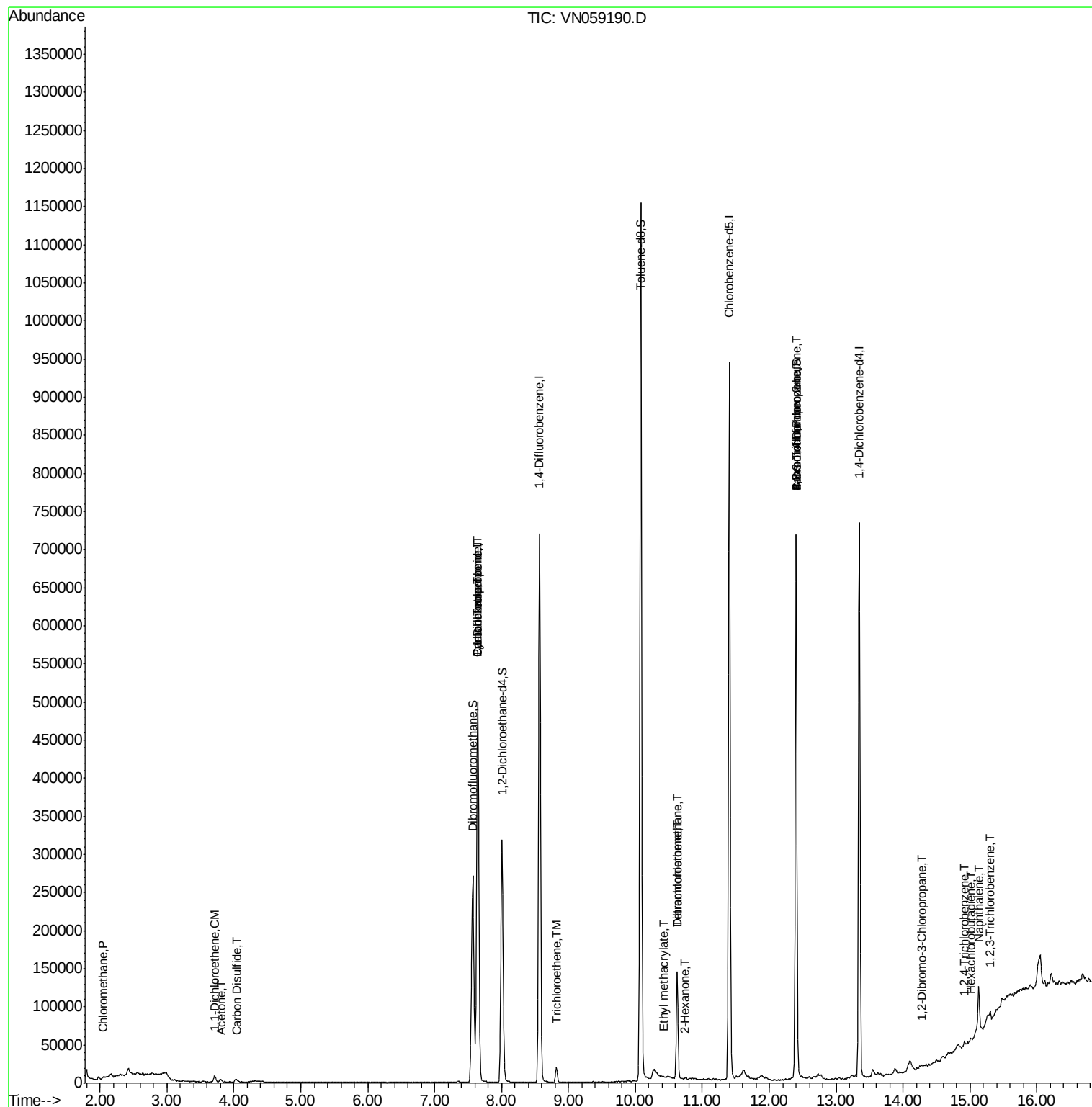
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1197	0.211	ug/l	90
12) 1,1-Dichloroethene	3.72	96	4150	1.072	ug/l	89
16) Acetone	3.79	43	4479	1.689	ug/l	89
17) Carbon Disulfide	4.03	76	4050	0.337	ug/l #	91
31) Cyclohexane	7.64	56	8149	1.026	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	32297	5.394	ug/l #	49
38) Carbon Tetrachloride	7.64	117	39641	6.652	ug/l #	17
44) Trichloroethene	8.81	130	7061	1.593	ug/l	95
56) Ethyl methacrylate	10.43	69	33	1.878	ug/l #	1
59) 2-Hexanone	10.75	43	1409	0.306	ug/l	67
60) Dibromochloromethane	10.63	129	30965	6.696	ug/l #	11
64) Tetrachloroethene	10.63	164	33868	8.984	ug/l	98
71) Bromoform	12.40	173	1544	0.490	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	127323	28.493	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	127323	75.259	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.28	75	387	0.425	ug/l #	7
93) 1,2,4-Trichlorobenzene	14.92	180	2451	3.674	ug/l	81
94) Hexachlorobutadiene	15.02	225	504	0.242	ug/l	90
95) Naphthalene	15.13	128	48632	7.535	ug/l	98
96) 1,2,3-Trichlorobenzene	15.29	180	3197	0.944	ug/l	95

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN059190.D

Acq: 12 Nov 2019 15:07

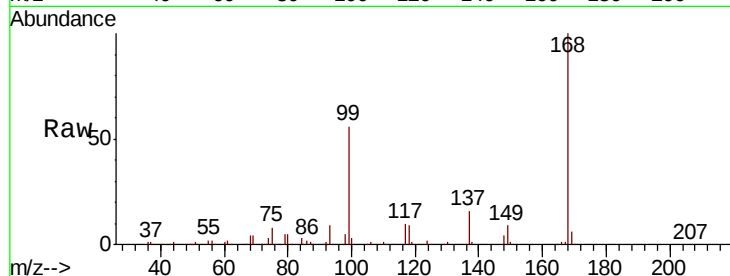
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 414896

Ion Ratio Lower Upper

168 100

99 55.8 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

200000

150000

100000

50000

0

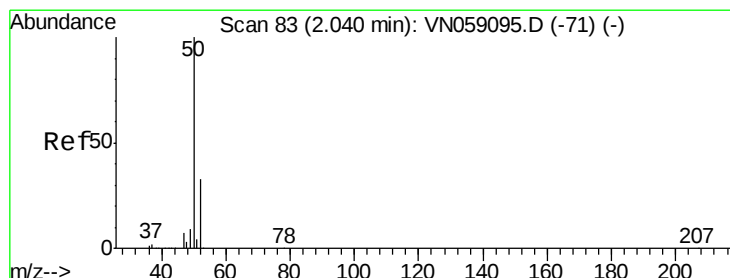
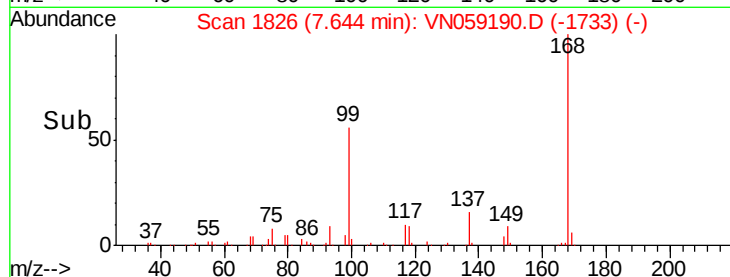
7.64

7.60

7.70

7.80

Time-->



#3

Chloromethane

Concen: 0.211 ug/l

RT: 2.04 min Scan# 83

Delta R.T. -0.00 min

Lab File: VN059190.D

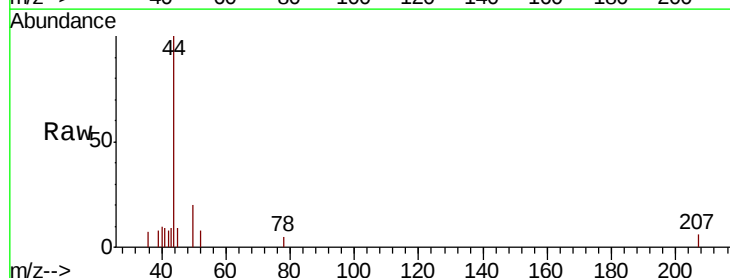
Acq: 12 Nov 2019 15:07

Tgt Ion: 50 Resp: 1197

Ion Ratio Lower Upper

50 100

52 38.3 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

800

600

400

200

0

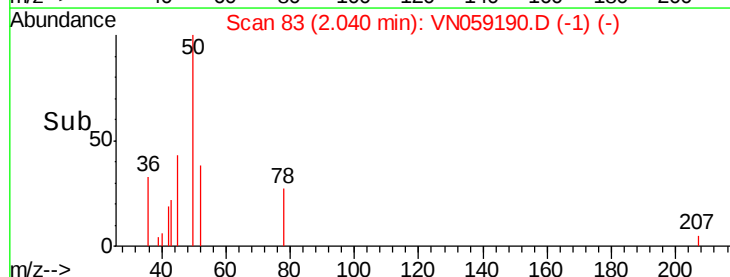
2.04

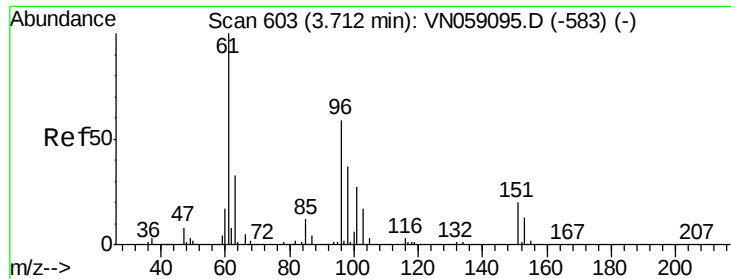
2.00

2.05

2.10

Time-->





#12

1,1-Dichloroethene

Concen: 1.072 ug/l

RT: 3.72 min Scan# 604

Delta R.T. 0.00 min

Lab File: VN059190.D

Acq: 12 Nov 2019 15:07

Instrument :

MSVOA_N

ClientSampled :

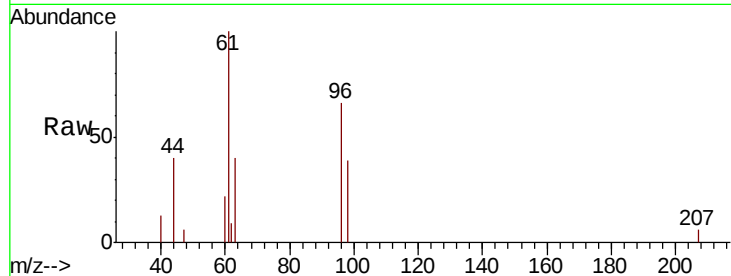
Tot Ion: 96 Resp: 4150

Ion Ratio Lower Upper

96 100

61 151.3 136.5 204.7

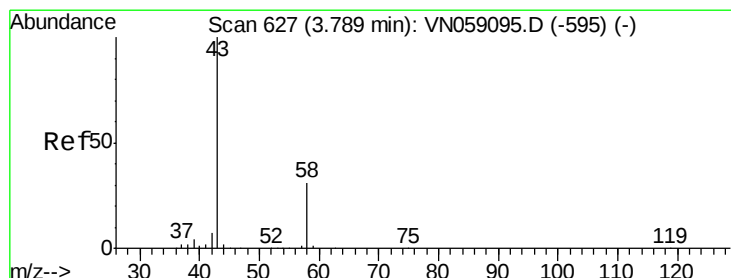
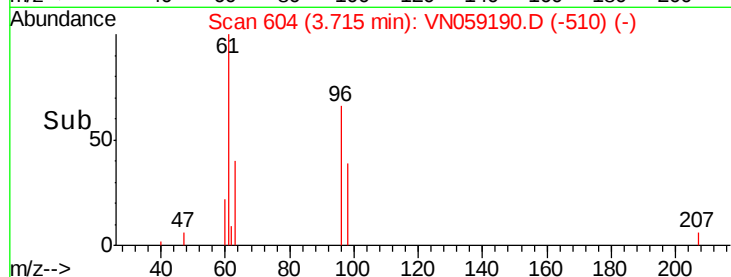
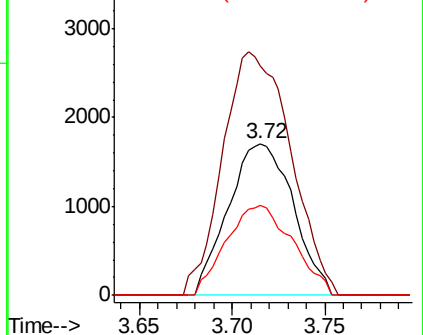
98 59.3 50.2 75.4



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#16

Acetone

Concen: 1.689 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN059190.D

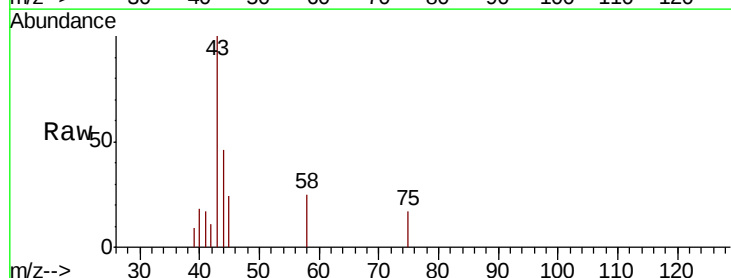
Acq: 12 Nov 2019 15:07

Tgt Ion: 43 Resp: 4479

Ion Ratio Lower Upper

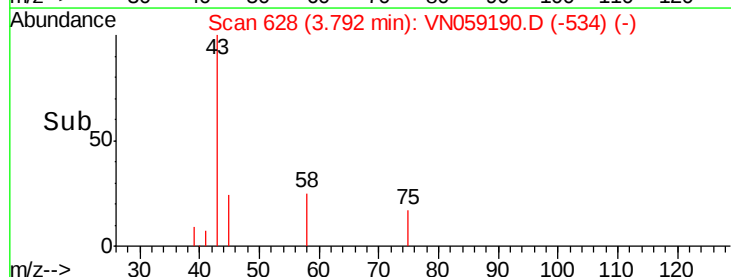
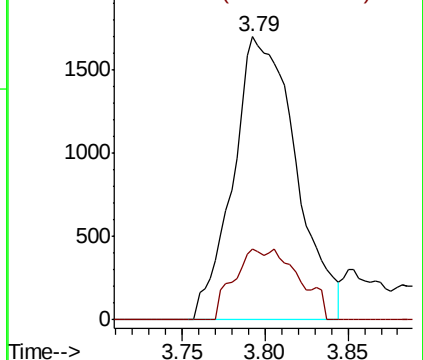
43 100

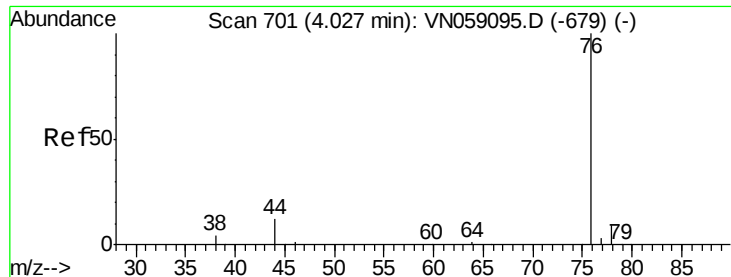
58 25.2 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: 0.337 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059190.D

Acq: 12 Nov 2019 15:07

Instrument :

MSVOA_N

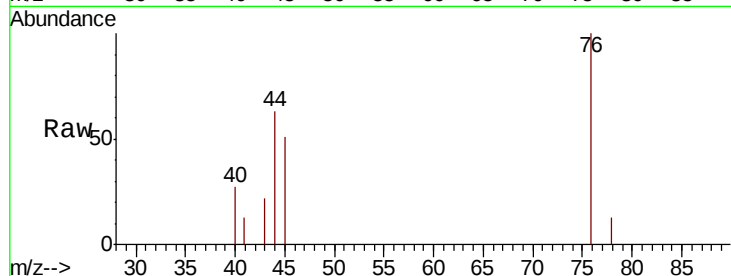
ClientSampleId :

Tot Ion: 76 Resp: 4050

Ion Ratio Lower Upper

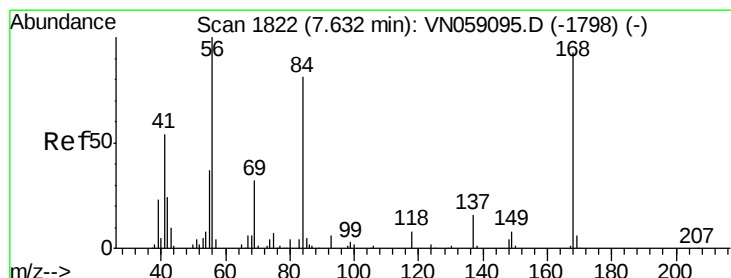
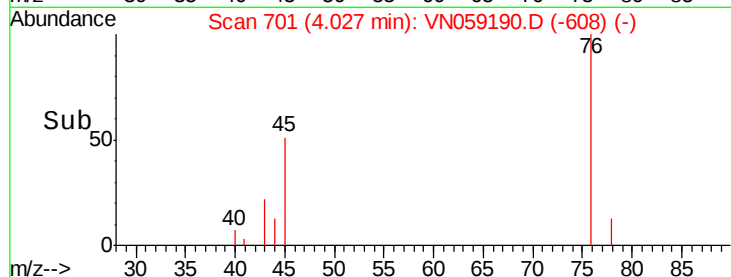
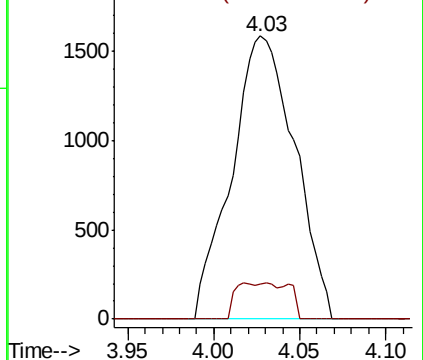
76 100

78 12.6 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#31

Cyclohexane

Concen: 1.026 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN059190.D

Acq: 12 Nov 2019 15:07

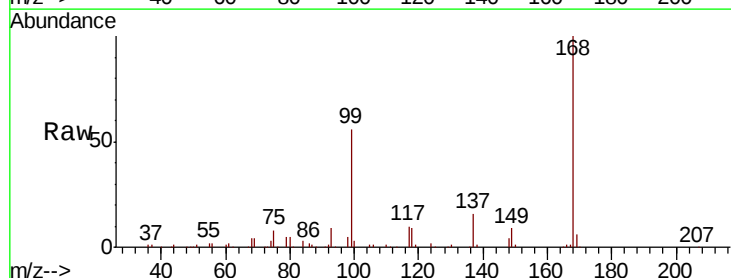
Tgt Ion: 56 Resp: 8149

Ion Ratio Lower Upper

56 100

69 171.5 25.8 38.8#

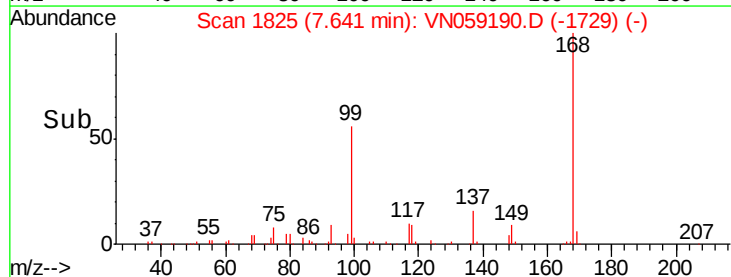
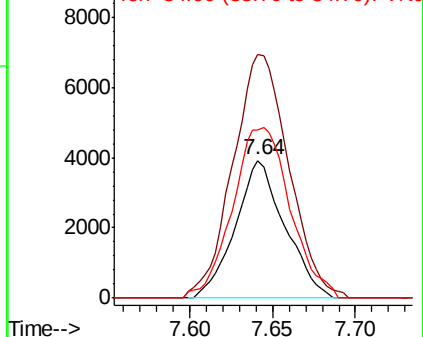
84 122.0 65.0 97.4#

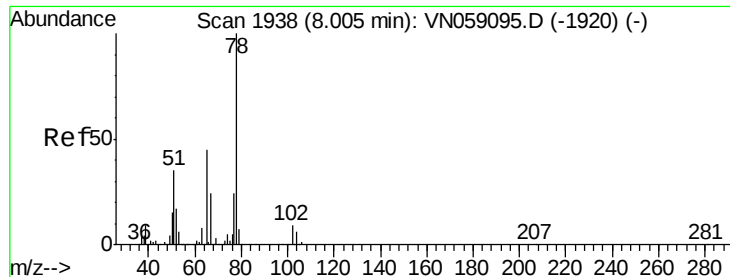


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

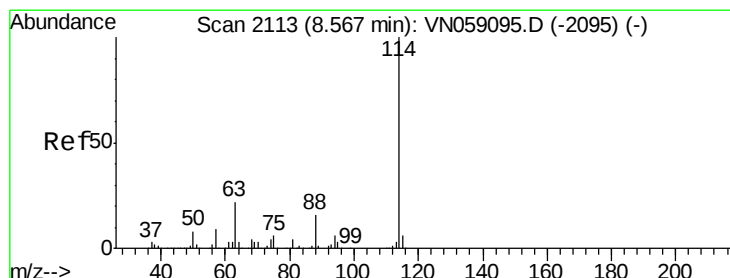
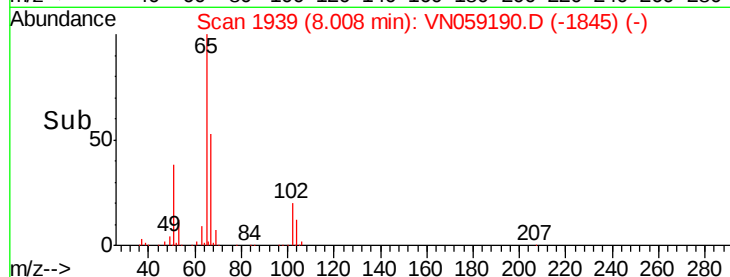
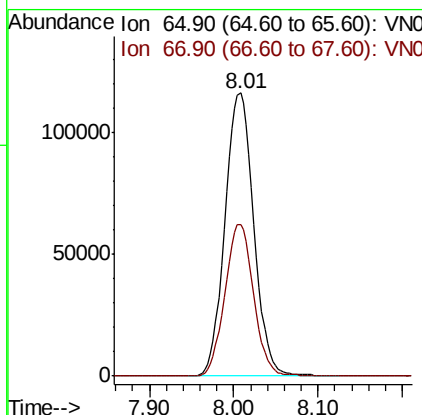
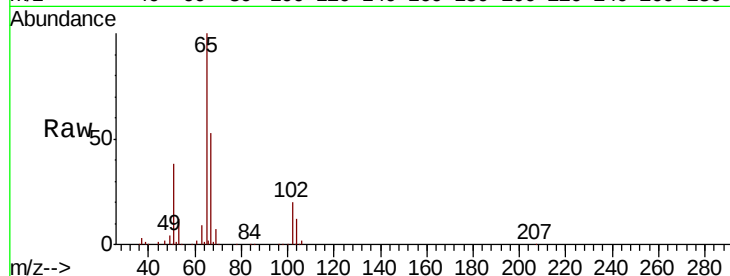




#33
 1,2-Dichloroethane-d4
 Concen: 54.234 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. 0.00 min
 Lab File: VN059190.D
 Acq: 12 Nov 2019 15:07

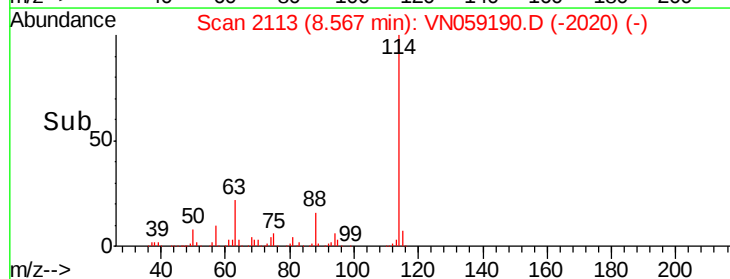
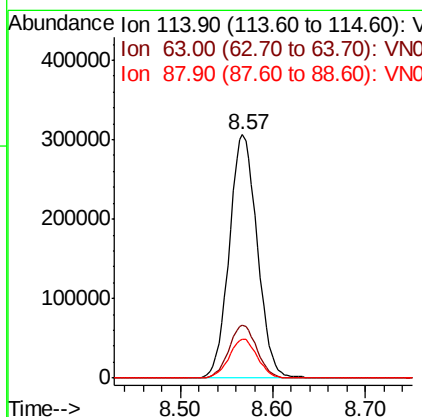
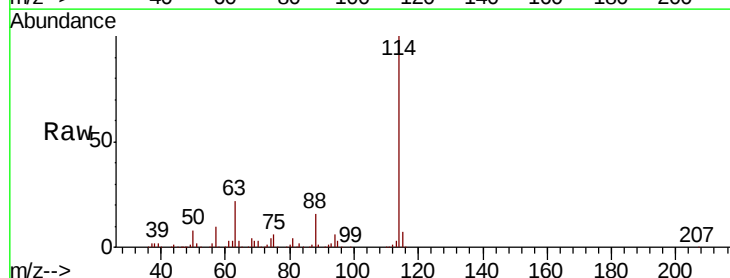
Instrument :
 MSVOA_N
 ClientSampled :

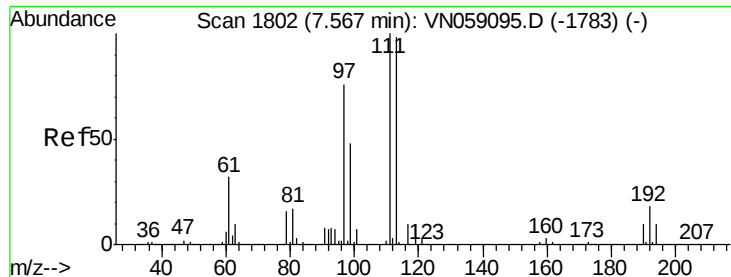
Tot Ion: 65 Resp: 276603
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059190.D
 Acq: 12 Nov 2019 15:07

Tgt Ion: 114 Resp: 640590
 Ion Ratio Lower Upper
 114 100
 63 21.9 0.0 43.4
 88 16.2 0.0 32.2

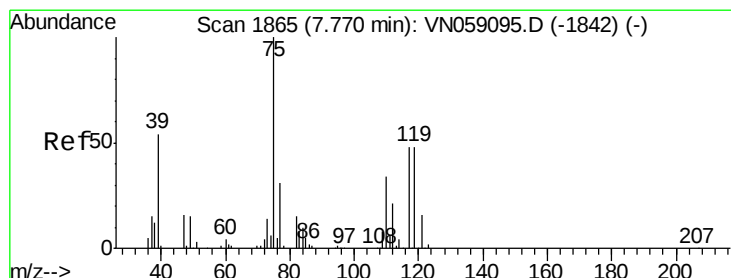
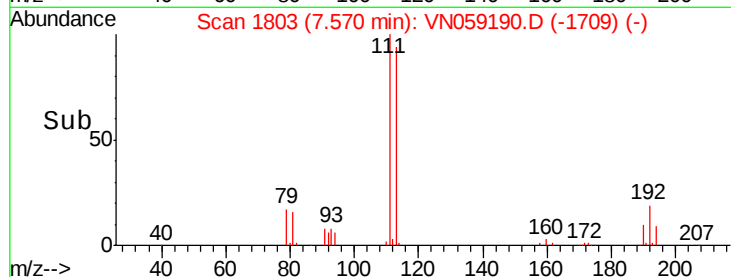
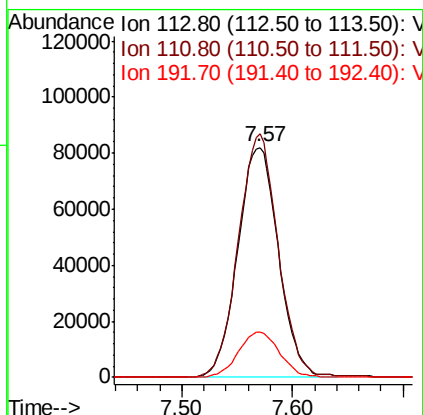
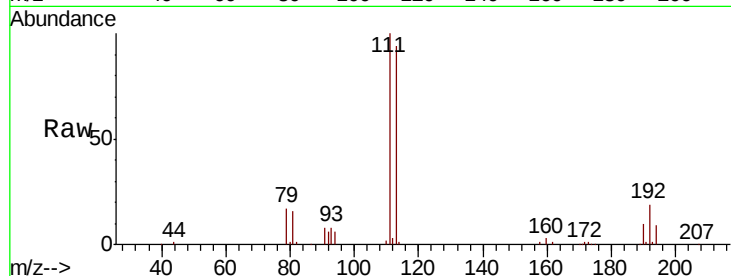




#35
 Dibromofluoromethane
 Concen: 54.979 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059190.D
 Acq: 12 Nov 2019 15:07

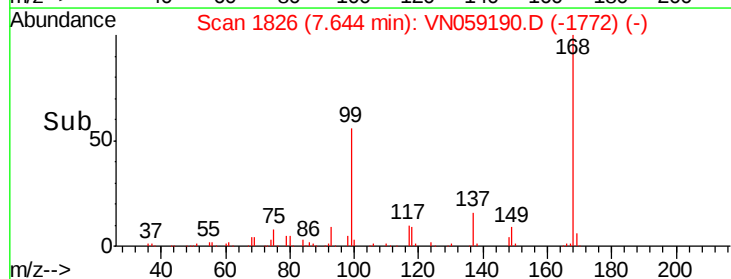
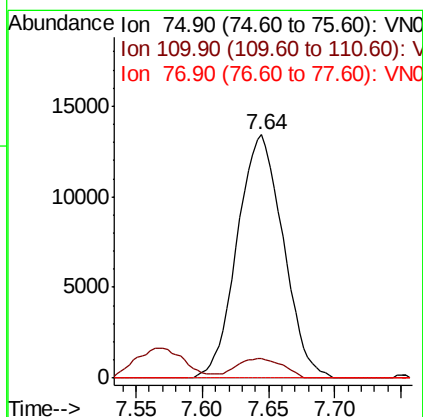
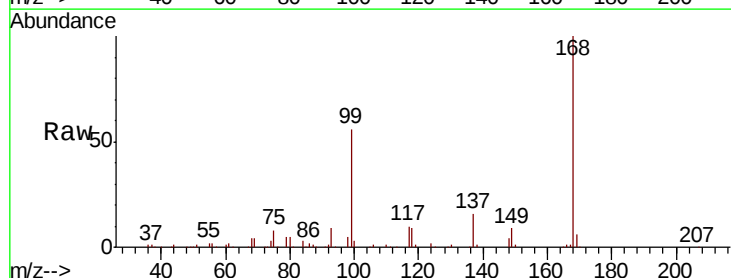
Instrument :
 MSVOA_N
 ClientSampled :

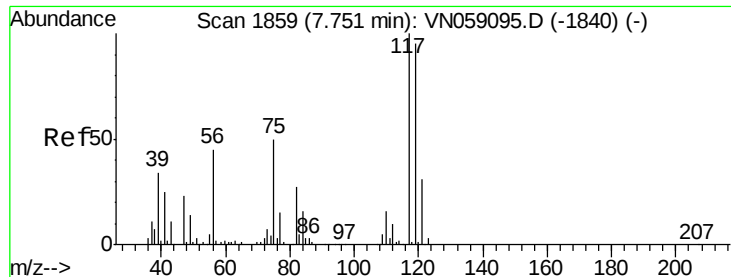
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.8	124.2
192	19.8	16.1	24.1



#36
 1,1-Dichloropropene
 Concen: 5.394 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN059190.D
 Acq: 12 Nov 2019 15:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.2	17.1	51.2#
77	0.0	24.8	37.2#

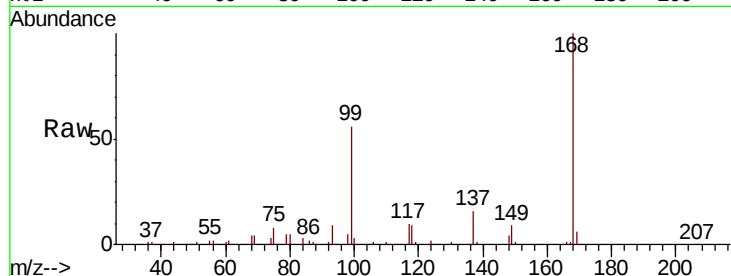




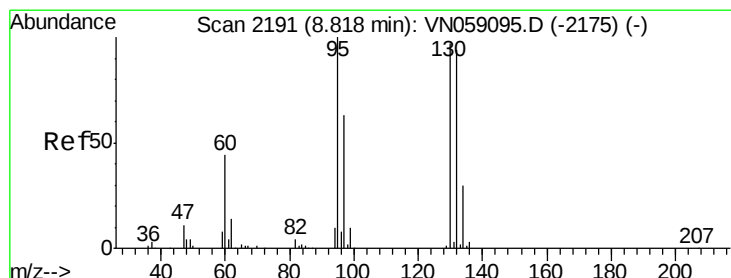
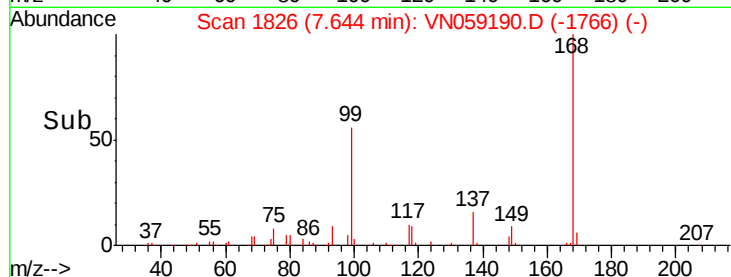
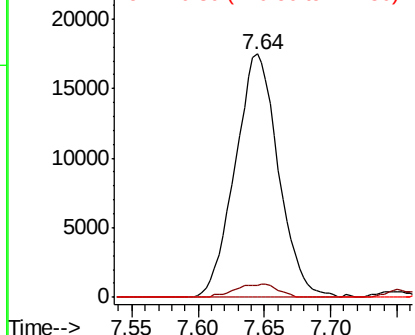
#38
Carbon Tetrachloride
Concen: 6.652 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN059190.D
Acq: 12 Nov 2019 15:07

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 39641
Ion Ratio Lower Upper
117 100
119 5.0 75.6 113.4#
121 0.0 24.6 36.8#

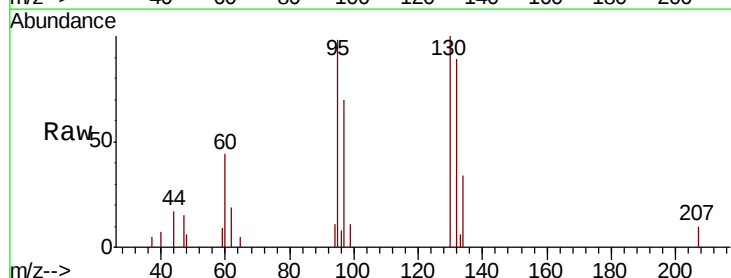


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

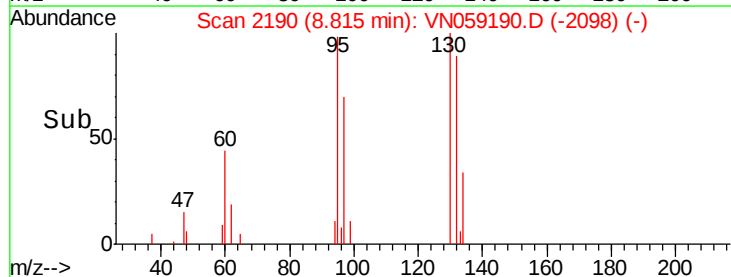
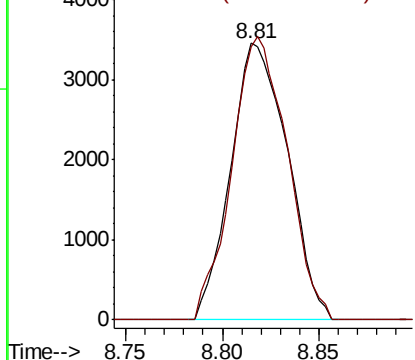


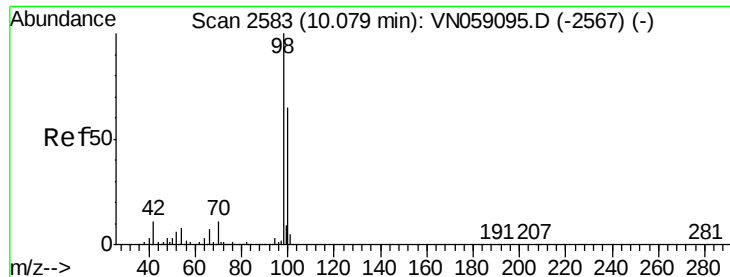
#44
Trichloroethene
Concen: 1.593 ug/l
RT: 8.81 min Scan# 2190
Delta R.T. -0.00 min
Lab File: VN059190.D
Acq: 12 Nov 2019 15:07

Tgt Ion:130 Resp: 7061
Ion Ratio Lower Upper
130 100
95 98.4 0.0 206.4



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V





#50

Toluene-d8

Concen: 53.699 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059190.D

Acq: 12 Nov 2019 15:07

Instrument :

MSVOA_N

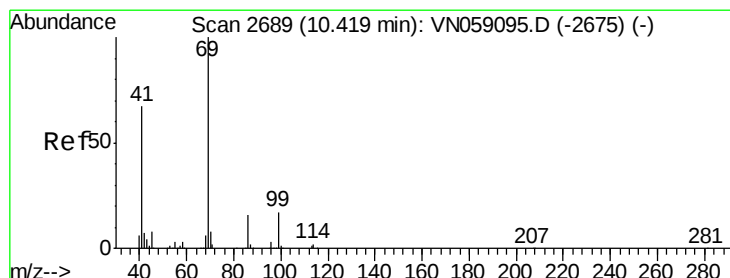
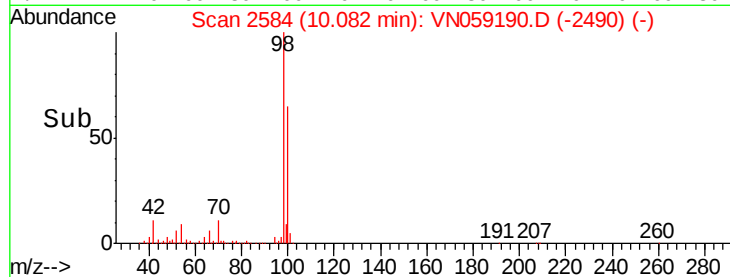
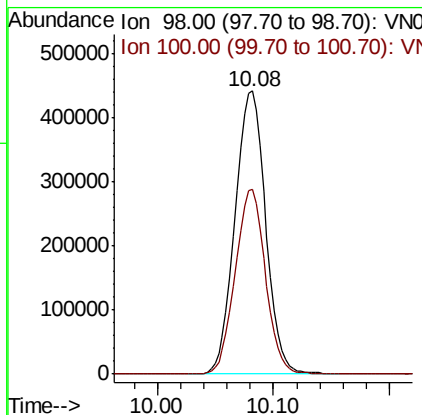
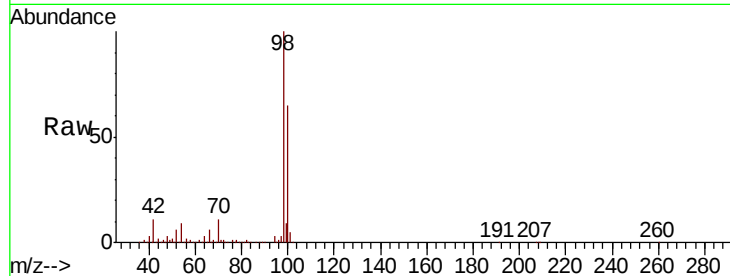
ClientSampleId :

Tot Ion: 98 Resp: 809033

Ion Ratio Lower Upper

98 100

100 64.5 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.878 ug/l

RT: 10.43 min Scan# 2693

Delta R.T. 0.01 min

Lab File: VN059190.D

Acq: 12 Nov 2019 15:07

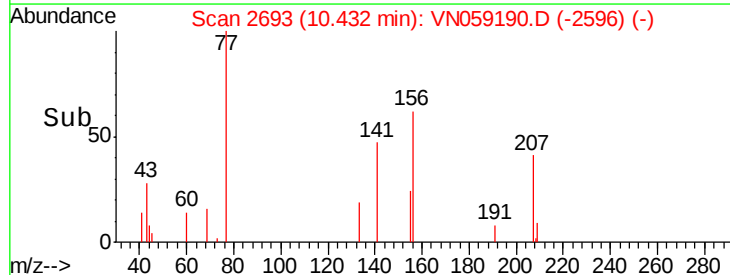
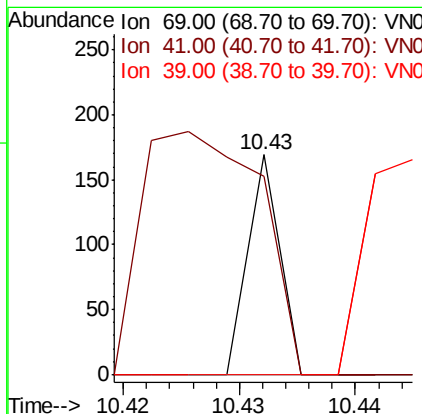
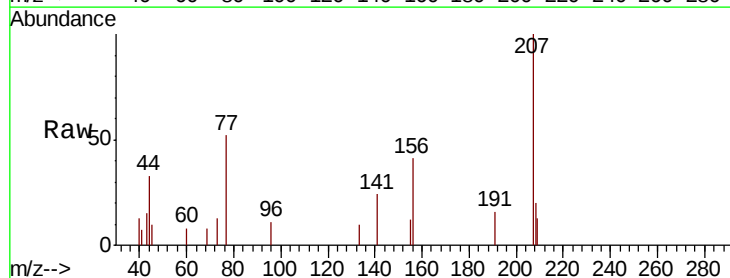
Tgt Ion: 69 Resp: 33

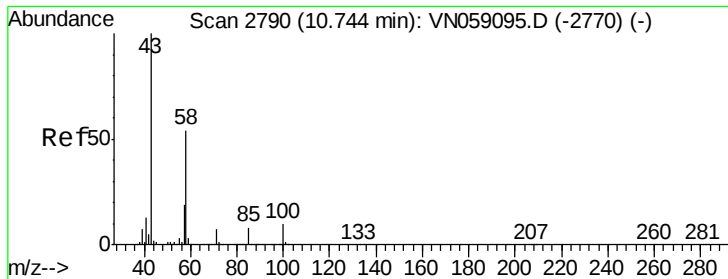
Ion Ratio Lower Upper

69 100

41 400.0 53.6 80.4#

39 0.0 26.2 39.4#

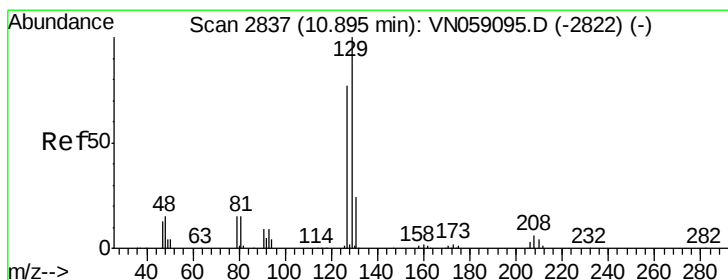
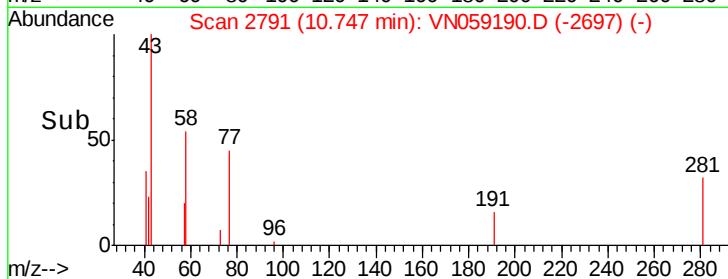
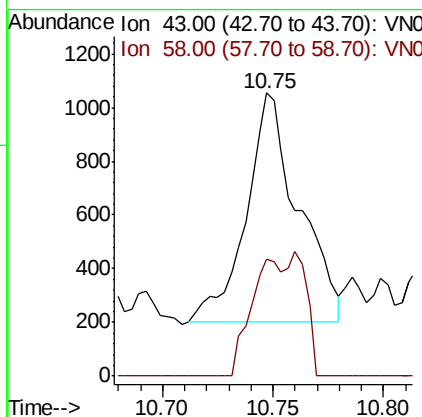
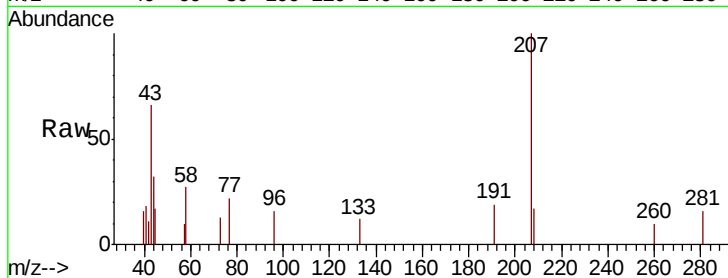




#59
2-Hexanone
Concen: 0.306 ug/l
RT: 10.75 min Scan# 2791
Delta R.T. 0.00 min
Lab File: VN059190.D
Acq: 12 Nov 2019 15:07

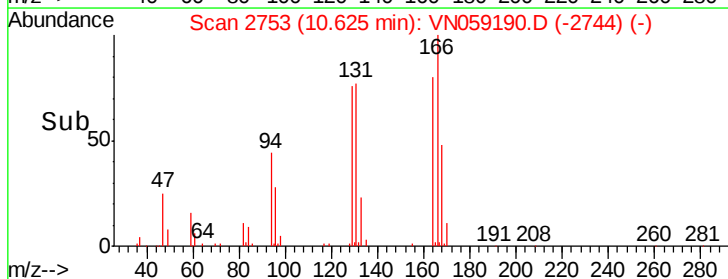
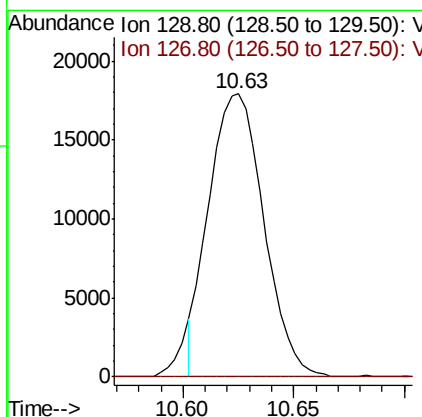
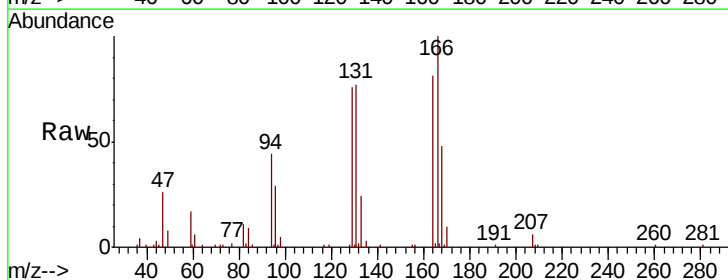
Instrument :
MSVOA_N
ClientSampled :

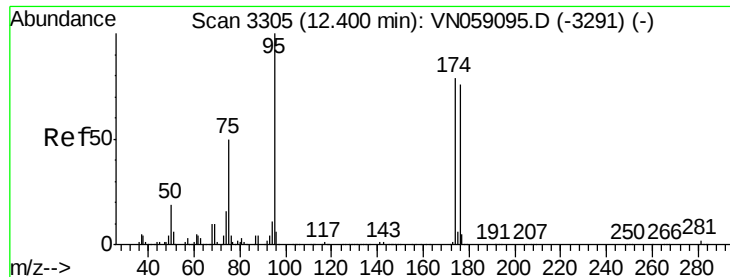
Tot Ion: 43 Resp: 1409
Ion Ratio Lower Upper
43 100
58 30.7 27.3 81.8



#60
Dibromochloromethane
Concen: 6.696 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.27 min
Lab File: VN059190.D
Acq: 12 Nov 2019 15:07

Tgt Ion: 129 Resp: 30965
Ion Ratio Lower Upper
129 100
127 0.0 38.6 115.8#

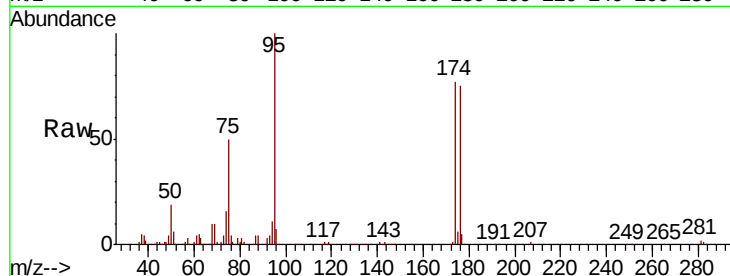




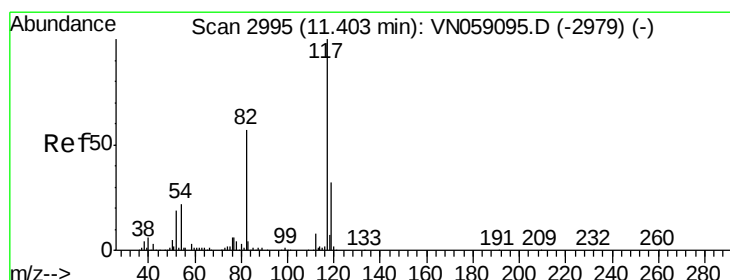
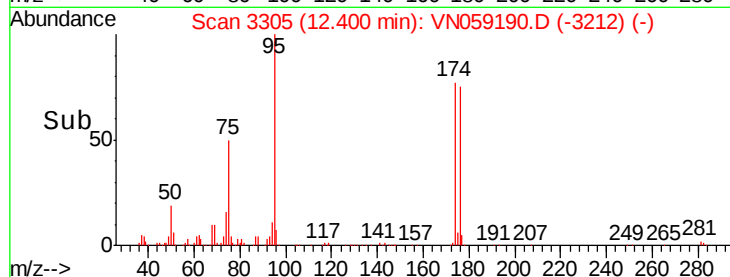
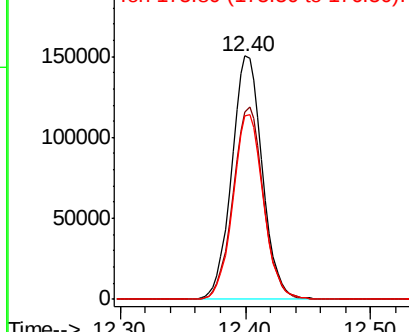
#62
4-Bromofluorobenzene
Concen: 46.772 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059190.D
Acq: 12 Nov 2019 15:07

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
95	100		
174	78.2	0.0	158.2
176	75.8	0.0	151.8

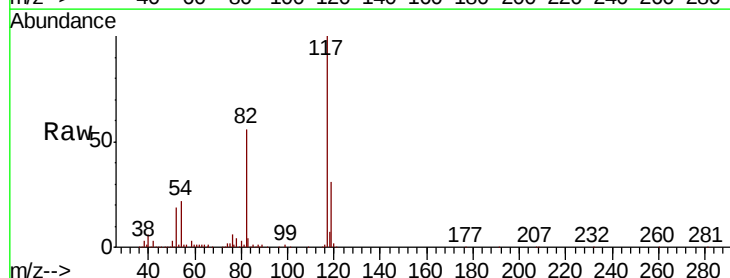


Abundance Ion 94.90 (94.60 to 95.60): VN059190.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN059190.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN059190.D (-3291) (-)

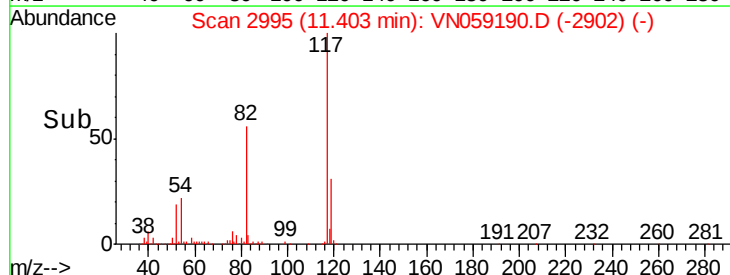
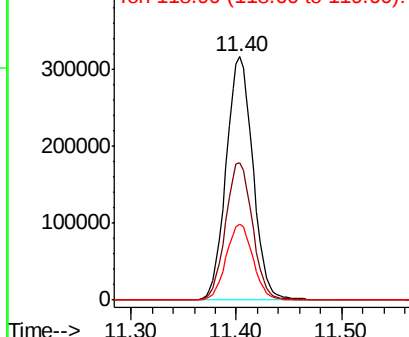


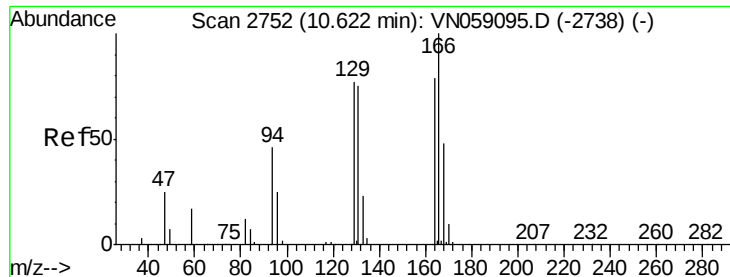
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. -0.00 min
Lab File: VN059190.D
Acq: 12 Nov 2019 15:07

Tgt Ion	Ratio	Lower	Upper
117	100		
82	56.5	45.8	68.8
119	31.1	25.8	38.6



Abundance Ion 116.90 (116.60 to 117.60): VN059190.D (-2979) (-)
Ion 82.00 (81.70 to 82.70): VN059190.D (-2979) (-)
Ion 118.90 (118.60 to 119.60): VN059190.D (-2979) (-)

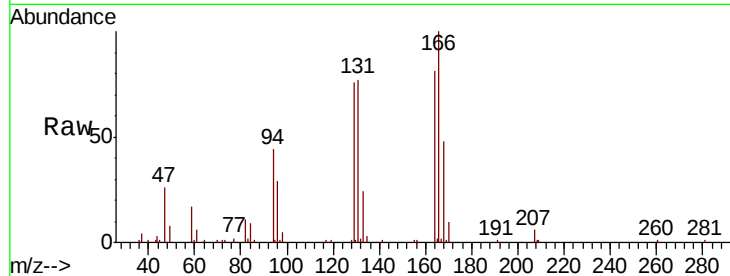




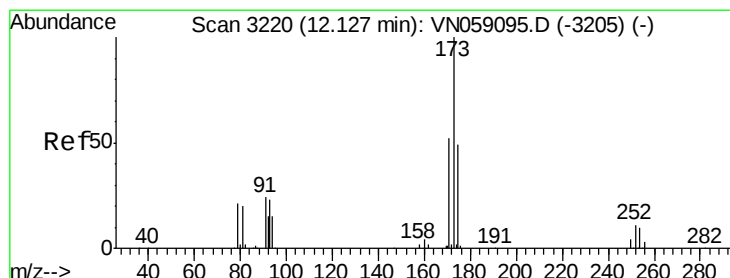
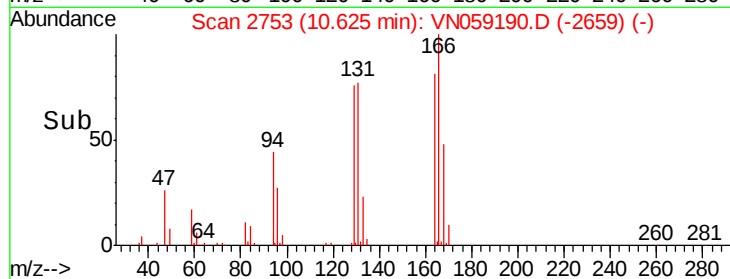
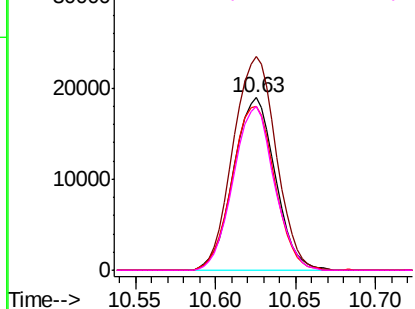
#64
Tetrachloroethene
Concen: 8.984 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. 0.00 min
Lab File: VN059190.D
Acq: 12 Nov 2019 15:07

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:164 Resp: 33868
Ion Ratio Lower Upper
164 100
166 124.0 101.5 152.3
129 94.8 78.3 117.5
131 95.0 75.9 113.9

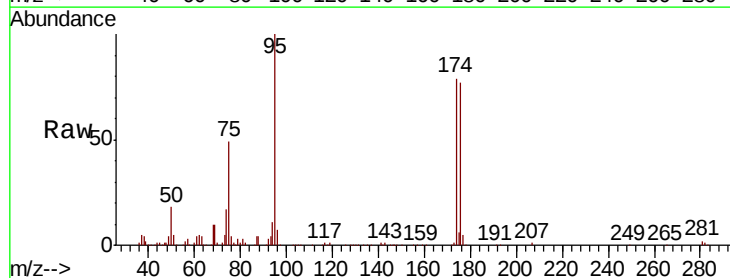


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

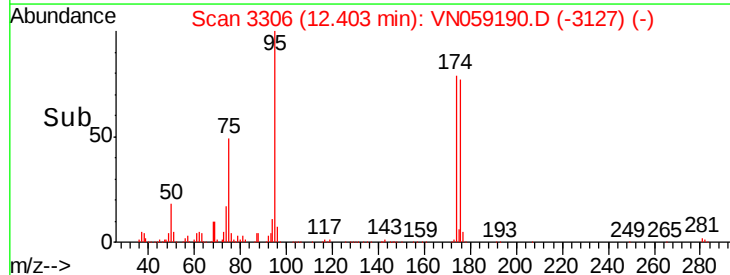
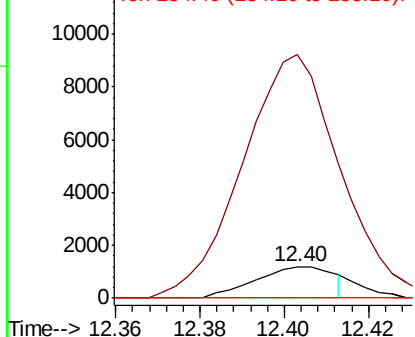


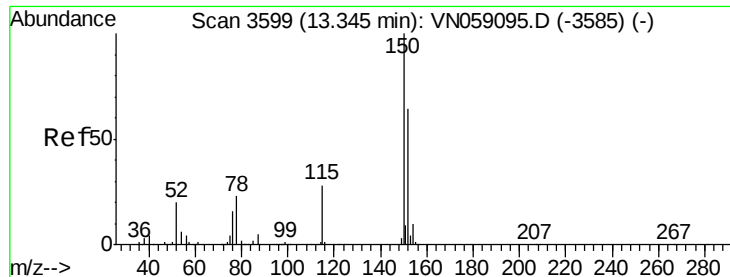
#71
Bromoform
Concen: 0.490 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN059190.D
Acq: 12 Nov 2019 15:07

Tgt Ion:173 Resp: 1544
Ion Ratio Lower Upper
173 100
175 840.8 24.2 72.6#
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



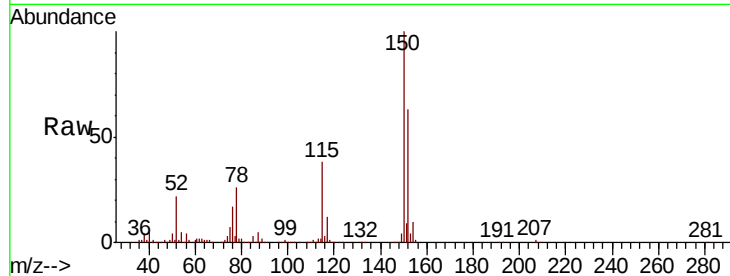


#72

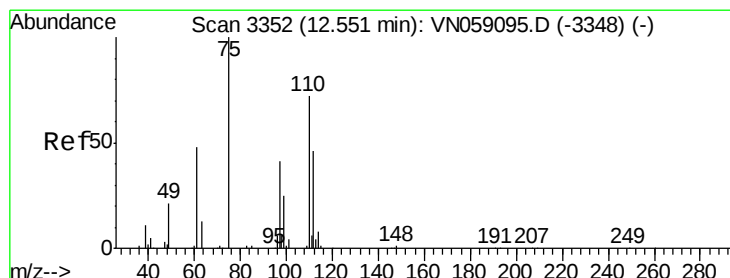
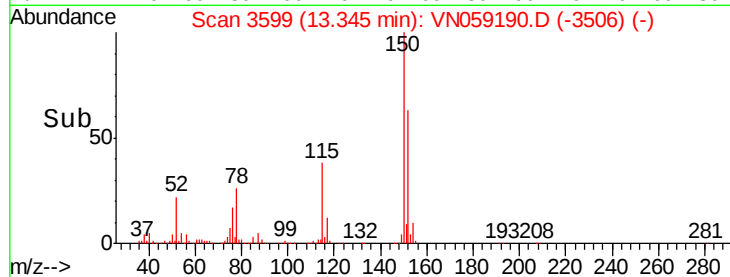
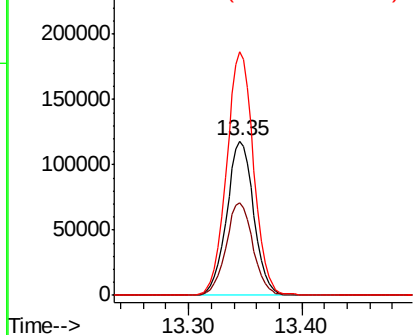
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. -0.00 min
Lab File: VN059190.D
Acq: 12 Nov 2019 15:07

Instrument :
MSVOA_N
ClientSampled :

Tot Ion	Ratio	Lower	Upper
152	100		
115	60.3	29.4	88.2
150	157.8	0.0	345.8



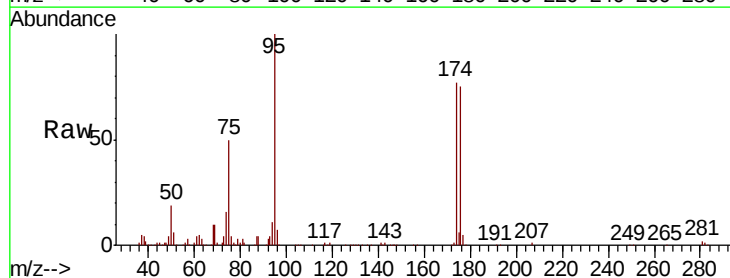
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



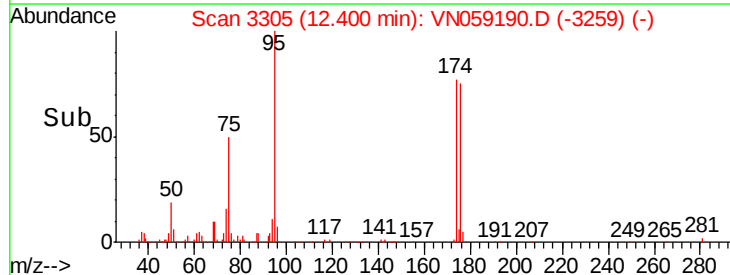
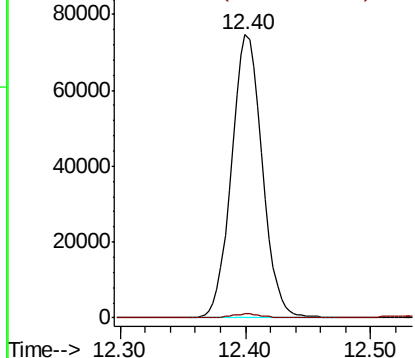
#76

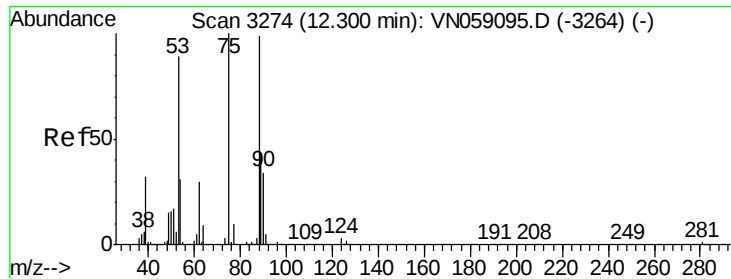
1,2,3-Trichloropropane
Concen: 28.493 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN059190.D
Acq: 12 Nov 2019 15:07

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.5	0.0	0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 75.259 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059190.D

Acq: 12 Nov 2019 15:07

Instrument :

MSVOA_N

ClientSampled :

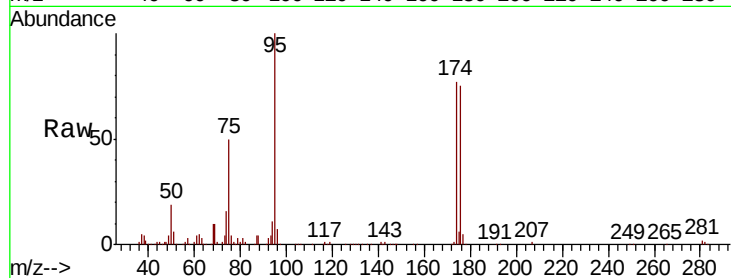
Tot Ion: 75 Resp: 127323

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

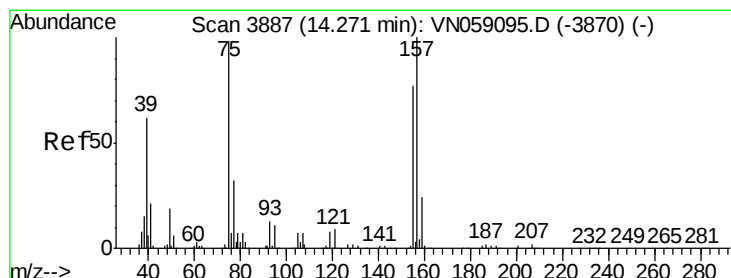
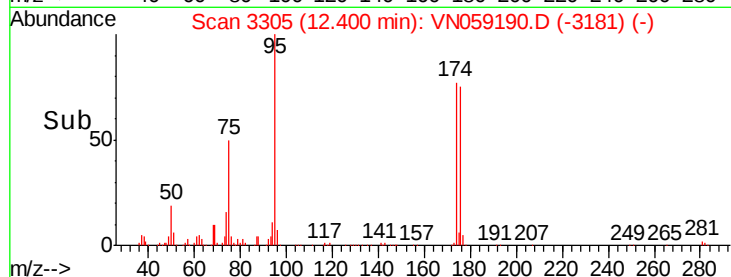
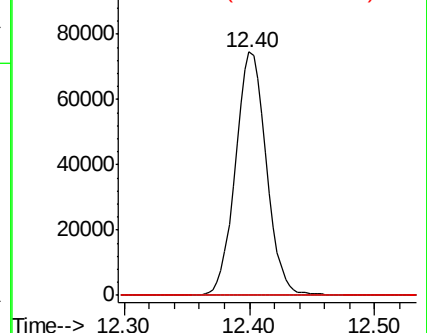
89 0.0 35.8 53.8#



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



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.425 ug/l

RT: 14.28 min Scan# 3889

Delta R.T. 0.01 min

Lab File: VN059190.D

Acq: 12 Nov 2019 15:07

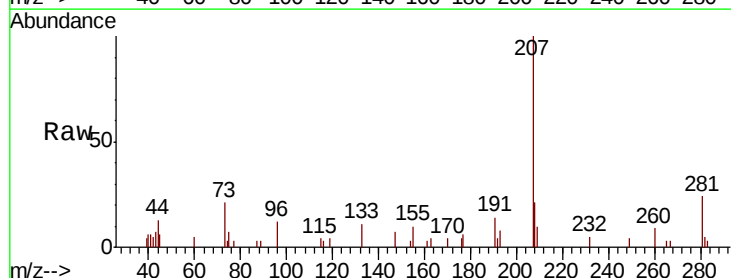
Tgt Ion: 75 Resp: 387

Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

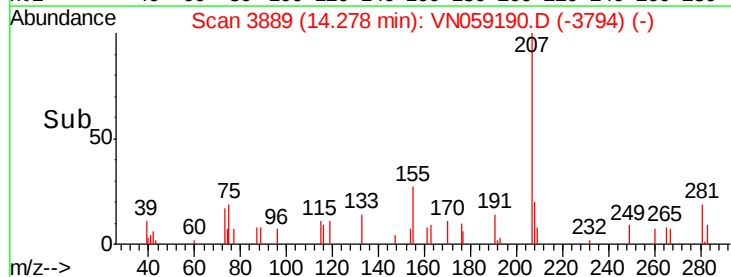
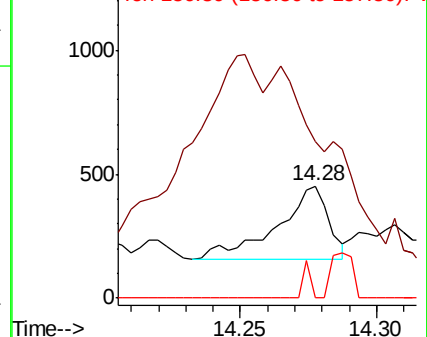
157 7.5 51.8 155.5#

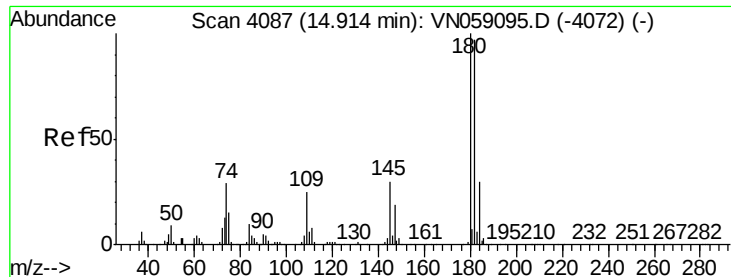


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

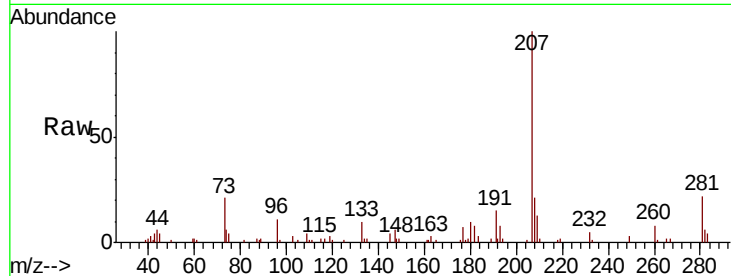




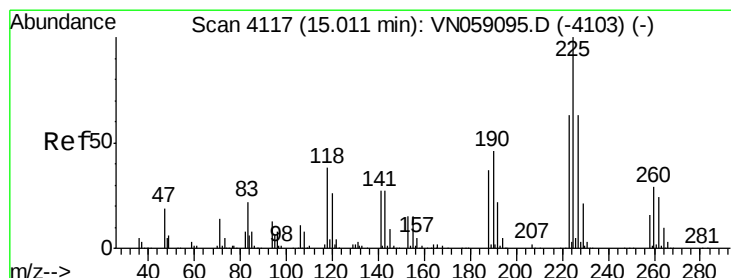
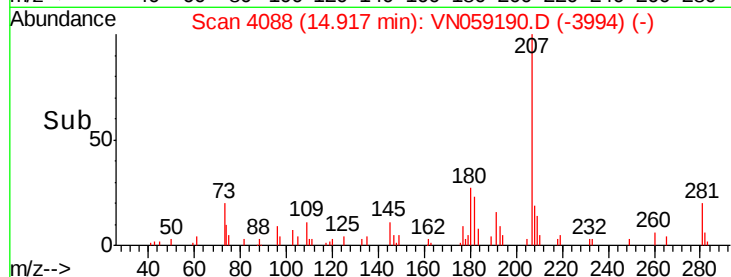
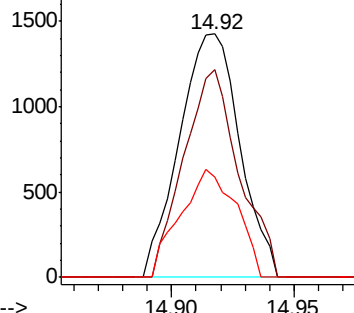
#93
 1,2,4-Trichlorobenzene
 Concen: 3.674 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN059190.D
 Acq: 12 Nov 2019 15:07

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 2451
 Ion Ratio Lower Upper
 180 100
 182 77.8 48.1 144.3
 145 41.0 15.1 45.3

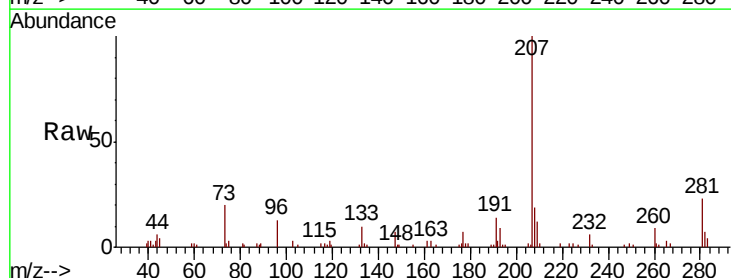


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

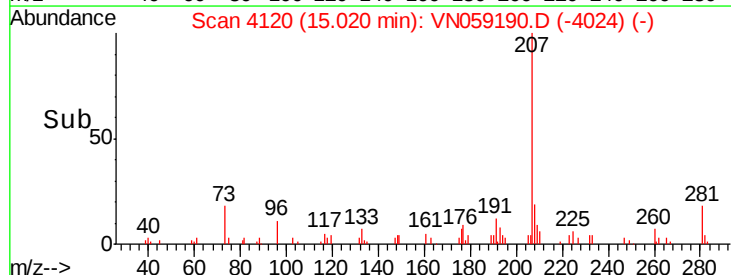
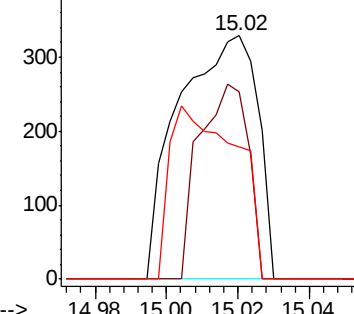


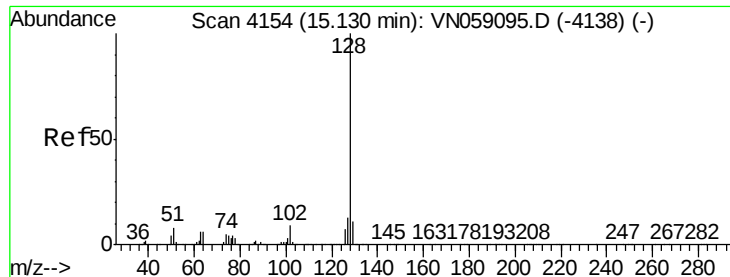
#94
 Hexachlorobutadiene
 Concen: 0.242 ug/l
 RT: 15.02 min Scan# 4120
 Delta R.T. 0.01 min
 Lab File: VN059190.D
 Acq: 12 Nov 2019 15:07

Tgt Ion:225 Resp: 504
 Ion Ratio Lower Upper
 225 100
 223 49.6 31.3 93.9
 227 59.9 31.5 94.5



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: 7.535 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059190.D

Acq: 12 Nov 2019 15:07

Instrument :

MSVOA_N

ClientSampleId :

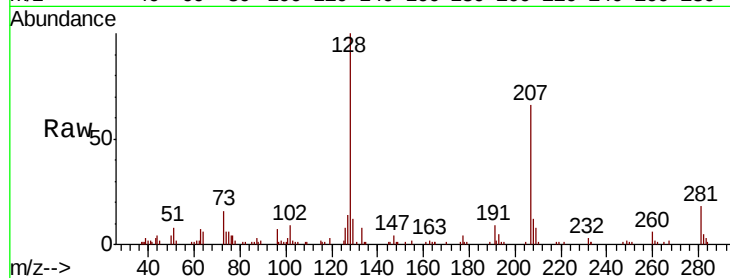
Tot Ion:128 Resp: 48632

Ion Ratio Lower Upper

128 100

127 12.8 10.2 15.2

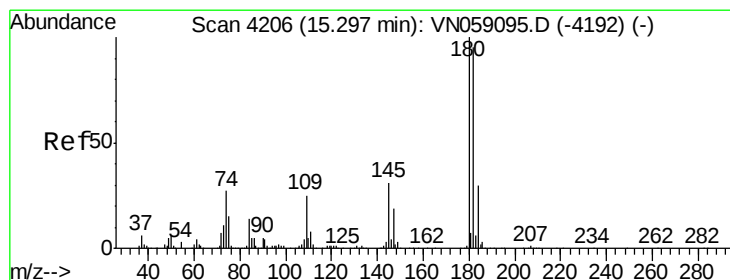
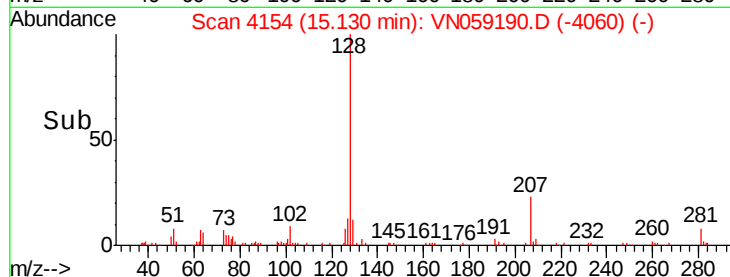
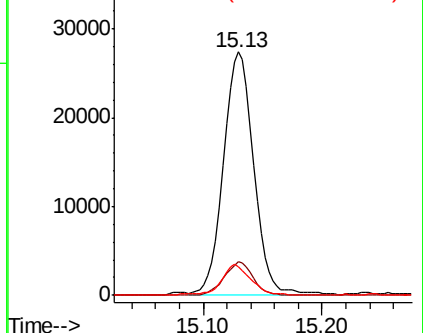
129 12.0 8.6 12.8



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: 0.944 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. -0.00 min

Lab File: VN059190.D

Acq: 12 Nov 2019 15:07

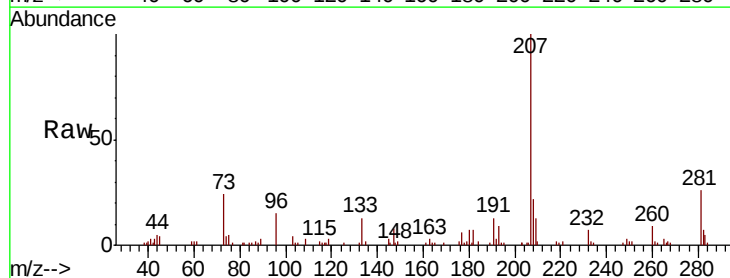
Tgt Ion:180 Resp: 3197

Ion Ratio Lower Upper

180 100

182 98.1 47.3 141.8

145 36.4 15.8 47.3



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

