

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111219\
 Data File : VN059191.D
 Acq On : 12 Nov 2019 15:29
 Operator : JC/SP
 Sample : K5799-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-307-SRI4

Quant Time: Nov 13 05:40:41 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	434210	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	670348	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	573010	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	208456	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	278508	52.18	ug/l	0.00
Spiked Amount			Recovery	=	104.36%	
35) Dibromofluoromethane	7.57	113	211333	52.80	ug/l	0.00
Spiked Amount			Recovery	=	105.60%	
50) Toluene-d8	10.08	98	820085	52.02	ug/l	0.00
Spiked Amount			Recovery	=	104.04%	
62) 4-Bromofluorobenzene	12.40	95	256303	45.09	ug/l	0.00
Spiked Amount			Recovery	=	90.18%	

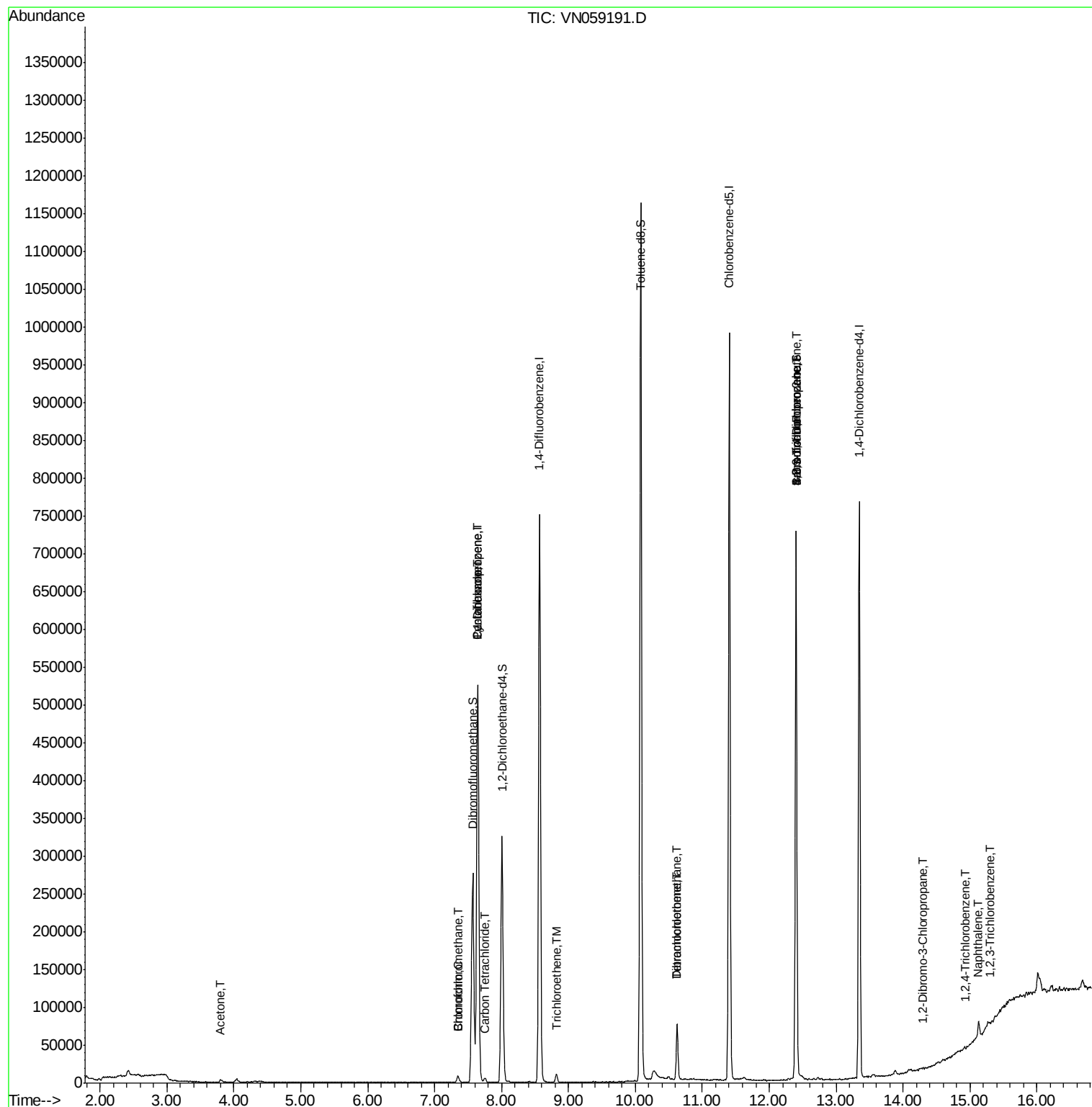
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.81	43	4671	1.683	ug/l	96
28) Bromochloromethane	7.36	49	632	0.239	ug/l #	17
30) Chloroform	7.35	83	8497	1.009	ug/l	98
31) Cyclohexane	7.64	56	8800	1.059	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	32558	5.196	ug/l #	50
38) Carbon Tetrachloride	7.75	117	4136	0.663	ug/l #	87
44) Trichloroethene	8.82	130	4136	0.892	ug/l	97
60) Dibromochloromethane	10.63	129	16497	3.409	ug/l #	11
64) Tetrachloroethene	10.63	164	17862	4.584	ug/l	96
71) Bromoform	12.40	173	1538	0.472	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	127870	26.944	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	127870	71.165	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.30	75	187	0.208	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.91	180	293	3.117	ug/l #	39
95) Naphthalene	15.13	128	14936	4.343	ug/l	96
96) 1,2,3-Trichlorobenzene	15.29	180	800	0.222	ug/l #	76

(#) = 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: VN059191.D

Acq: 12 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

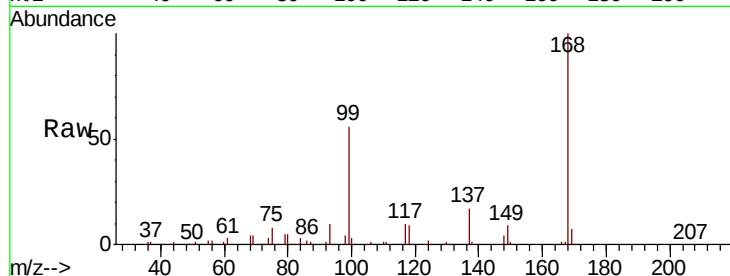
MW-307-SRI4

Tot Ion:168 Resp: 434210

Ion Ratio Lower Upper

168 100

99 56.3 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.64

200000

150000

100000

50000

0

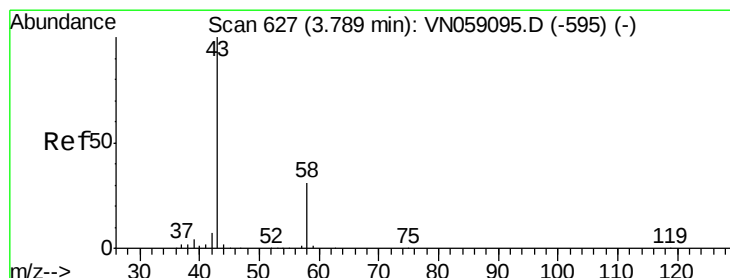
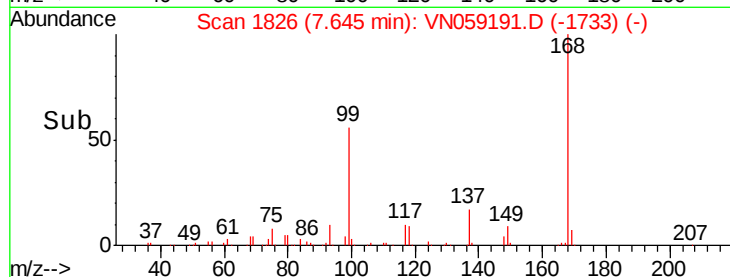
7.50

7.60

7.70

7.80

Time-->



#16

Acetone

Concen: 1.683 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.02 min

Lab File: VN059191.D

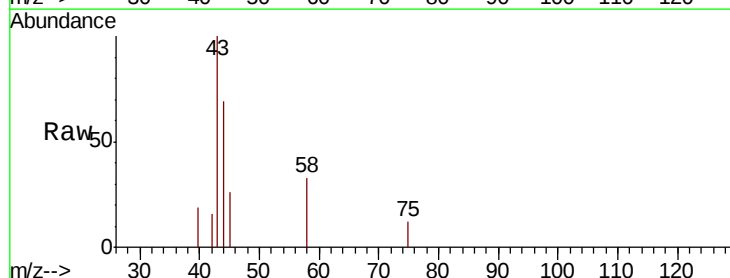
Acq: 12 Nov 2019 15:29

Tgt Ion: 43 Resp: 4671

Ion Ratio Lower Upper

43 100

58 33.5 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.81

1500

1000

500

0

3.70

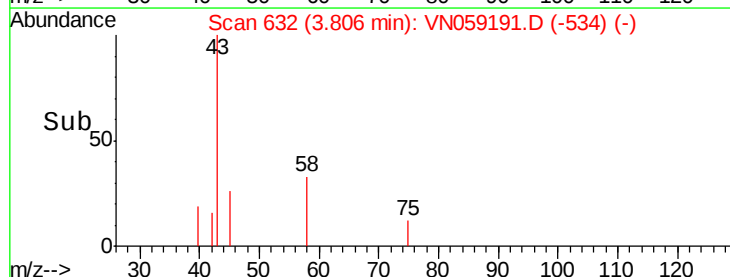
3.75

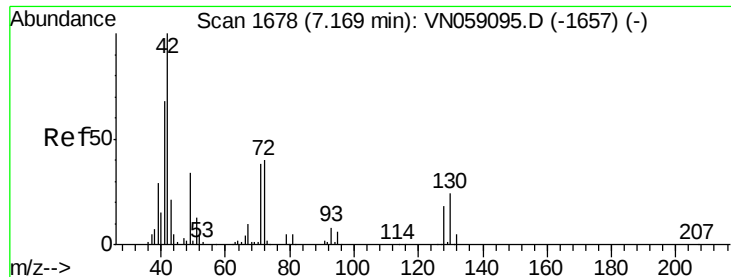
3.80

3.85

3.90

Time-->





#28

Bromochloromethane

Concen: 0.239 ug/l

RT: 7.36 min Scan# 1736

Delta R.T. 0.19 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

MW-307-SRI4

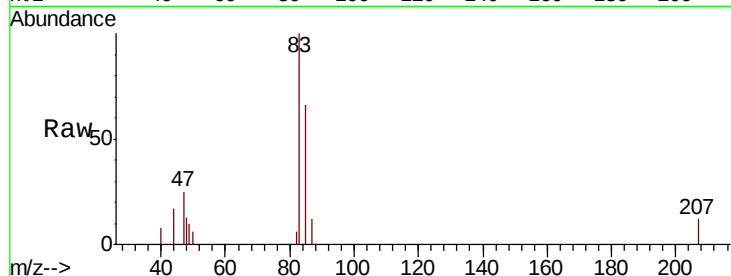
Tot Ion: 49 Resp: 632

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

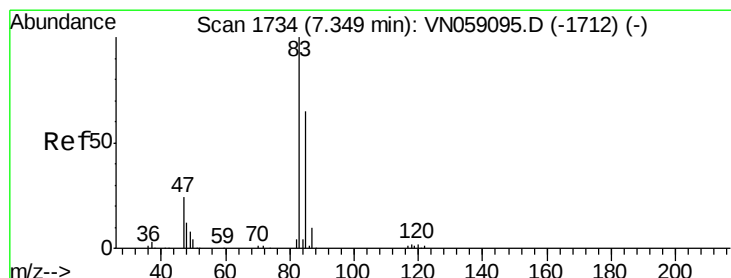
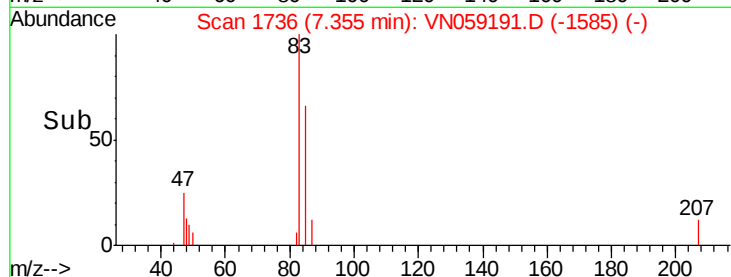
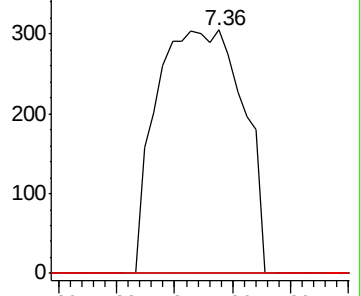
130 0.0 55.6 83.4#



Abundance Ion 48.90 (48.60 to 49.60): VN059191.D (-1657) (-)

Ion 128.80 (128.50 to 129.50): VN059191.D (-1657) (-)

Ion 129.80 (129.50 to 130.50): VN059191.D (-1657) (-)



#30

Chloroform

Concen: 1.009 ug/l

RT: 7.35 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VN059191.D

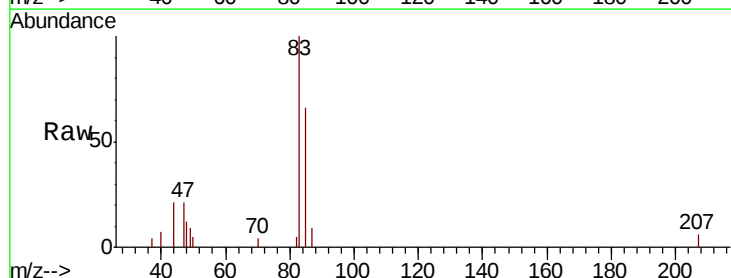
Acq: 12 Nov 2019 15:29

Tgt Ion: 83 Resp: 8497

Ion Ratio Lower Upper

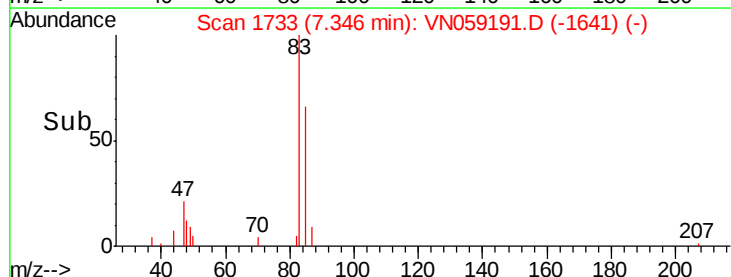
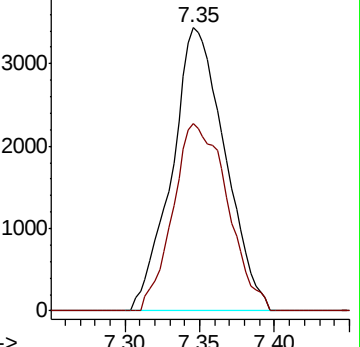
83 100

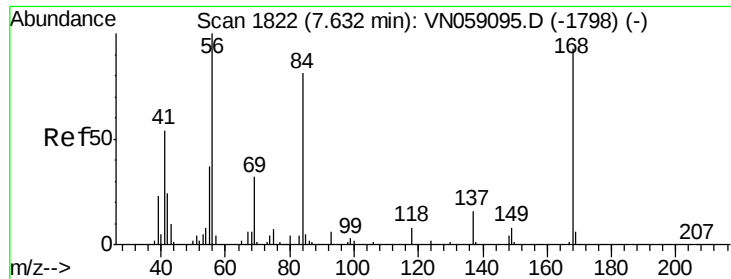
85 66.3 51.8 77.8



Abundance Ion 82.90 (82.60 to 83.60): VN059191.D (-1641) (-)

Ion 84.90 (84.60 to 85.60): VN059191.D (-1641) (-)





#31

Cyclohexane

Concen: 1.059 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

MW-307-SRI4

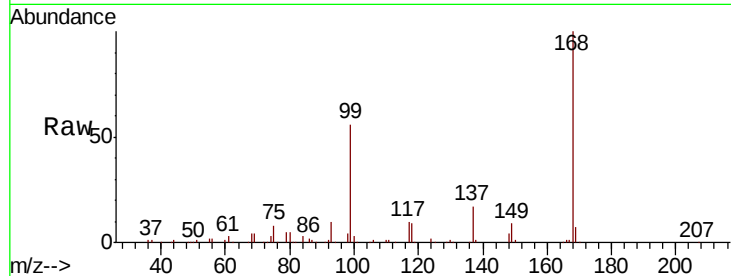
Tot Ion: 56 Resp: 8800

Ion Ratio Lower Upper

56 100

69 176.5 25.8 38.8#

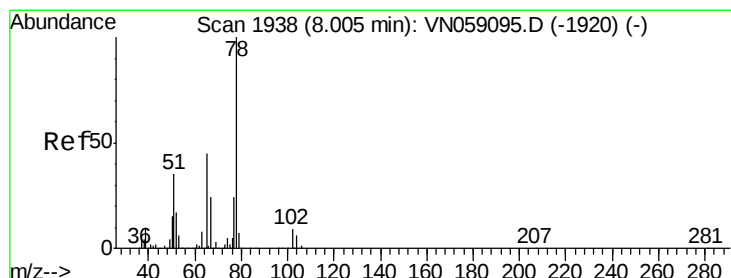
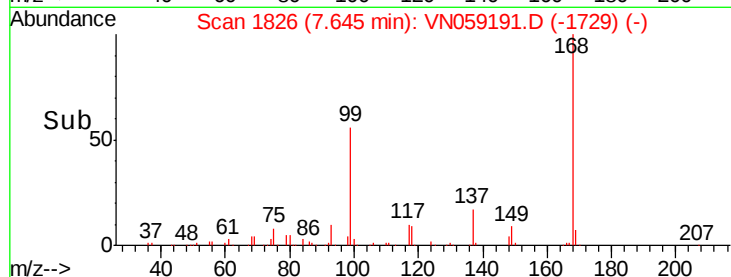
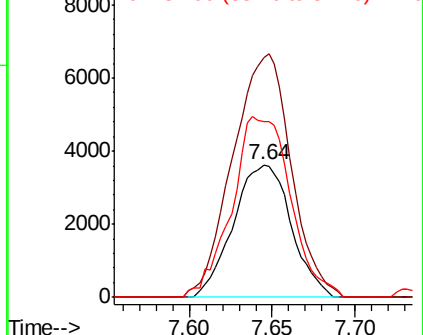
84 127.2 65.0 97.4#



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: 52.179 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN059191.D

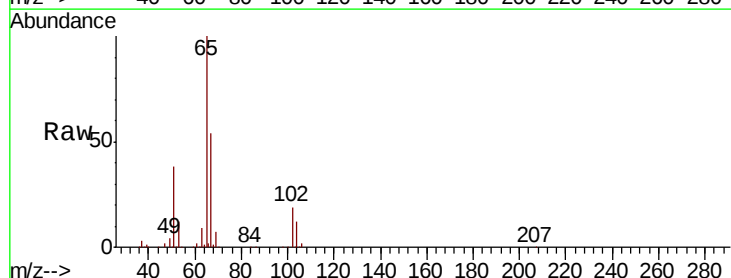
Acq: 12 Nov 2019 15:29

Tgt Ion: 65 Resp: 278508

Ion Ratio Lower Upper

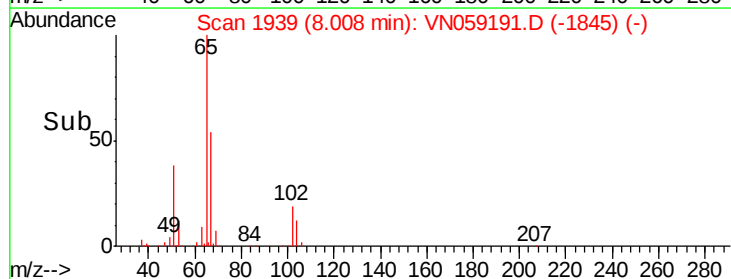
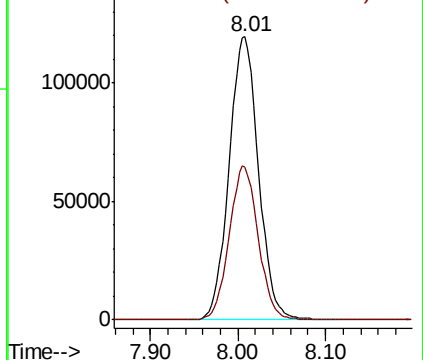
65 100

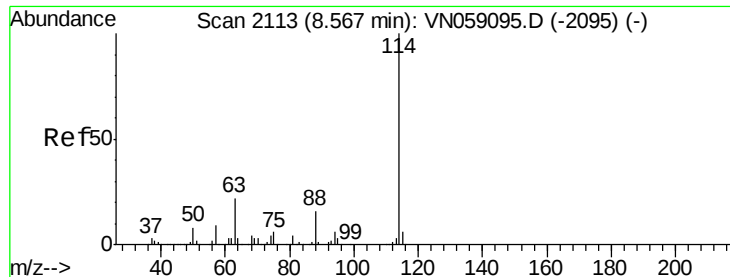
67 53.9 0.0 107.4



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC

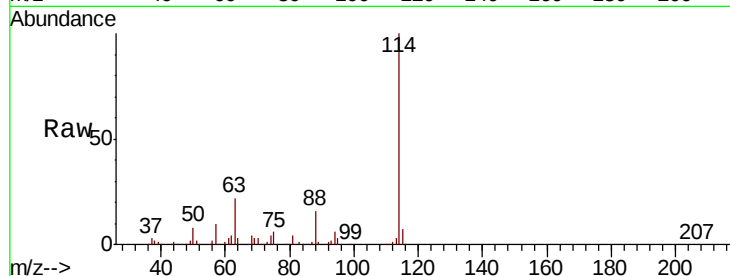




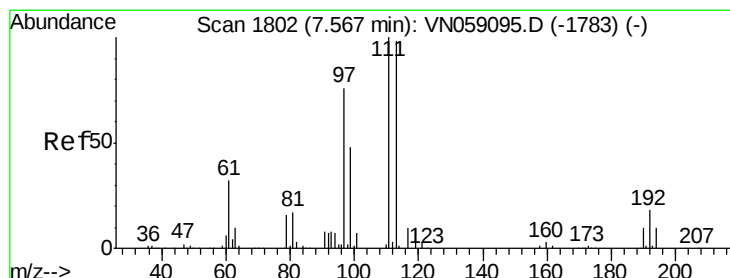
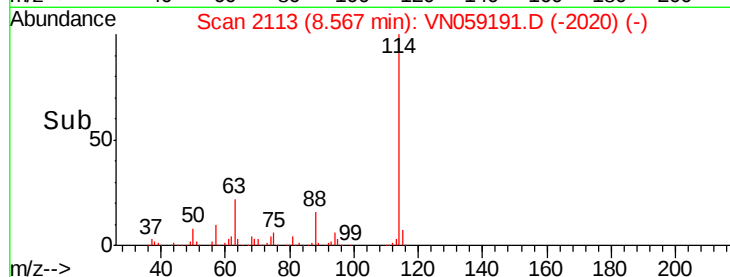
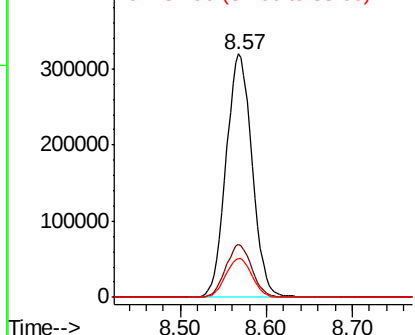
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN059191.D
 Acq: 12 Nov 2019 15:29

Instrument :
 MSVOA_N
 ClientSampleId :
 MW-307-SRI4

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.4
88	16.1	0.0	32.2

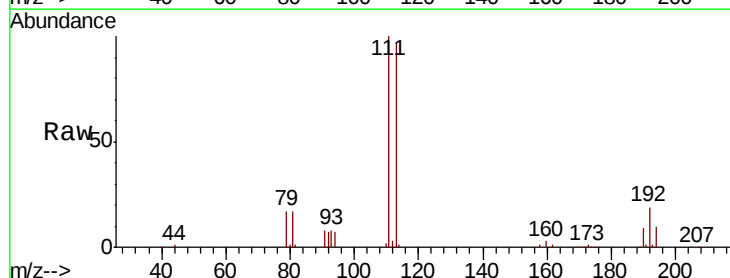


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

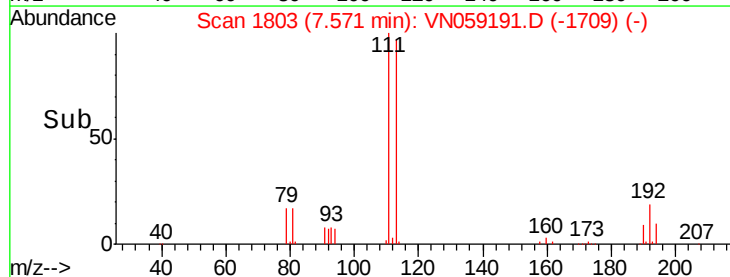
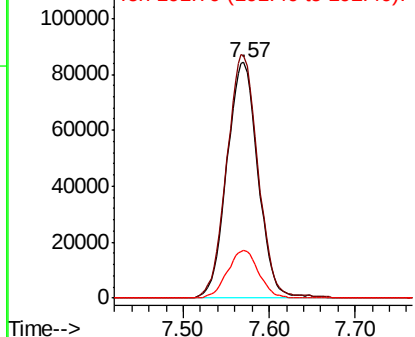


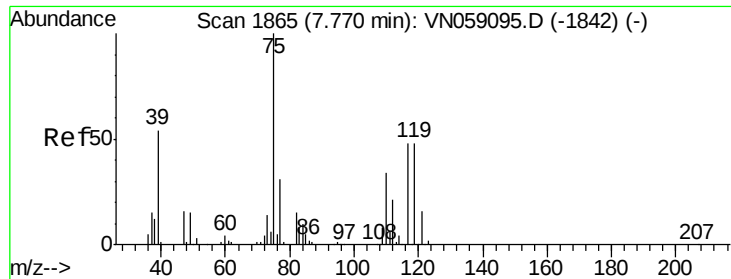
#35
 Dibromofluoromethane
 Concen: 52.799 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. 0.00 min
 Lab File: VN059191.D
 Acq: 12 Nov 2019 15:29

Tgt Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.8	124.2
192	20.4	16.1	24.1



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: 5.196 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

MW-307-SRI4

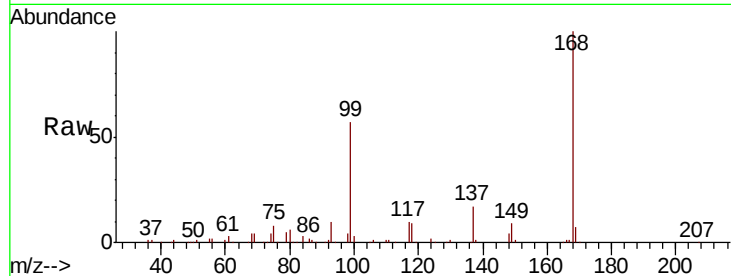
Tot Ion: 75 Resp: 32558

Ion Ratio Lower Upper

75 100

110 8.2 17.1 51.2#

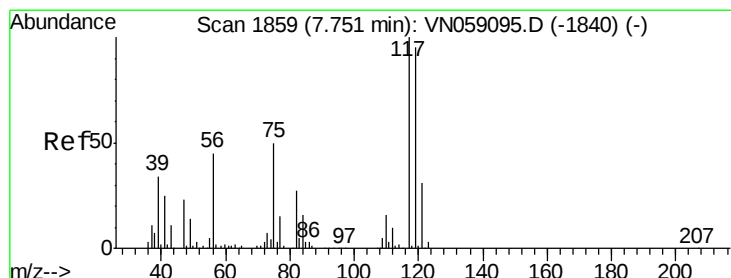
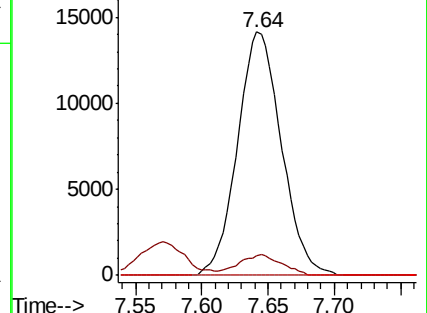
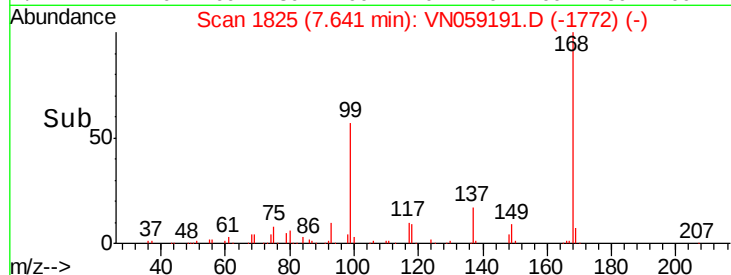
77 0.0 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VN059191.D (-1772) (-)

Ion 109.90 (109.60 to 110.60): VN059191.D (-1772) (-)

Ion 76.90 (76.60 to 77.60): VN059191.D (-1772) (-)



#38

Carbon Tetrachloride

Concen: 0.663 ug/l

RT: 7.75 min Scan# 1859

Delta R.T. 0.00 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

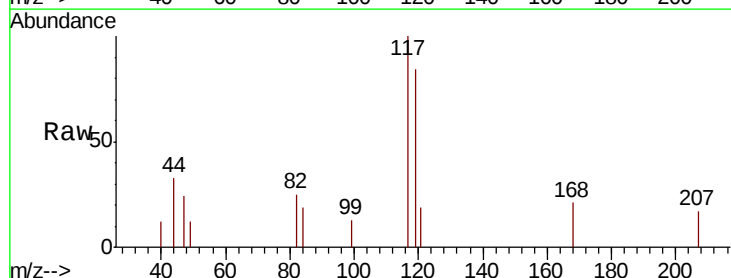
Tgt Ion: 117 Resp: 4136

Ion Ratio Lower Upper

117 100

119 84.5 75.6 113.4

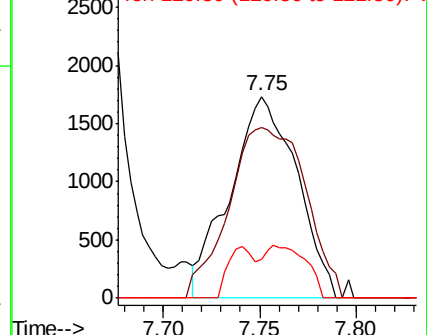
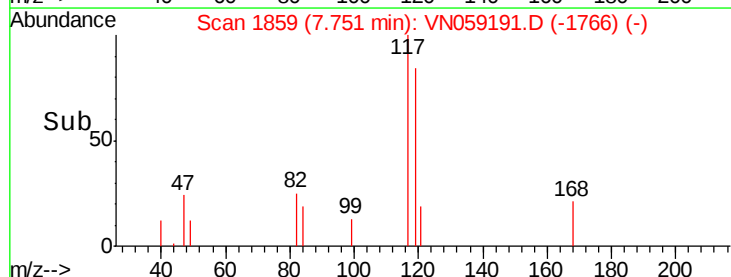
121 19.1 24.6 36.8#

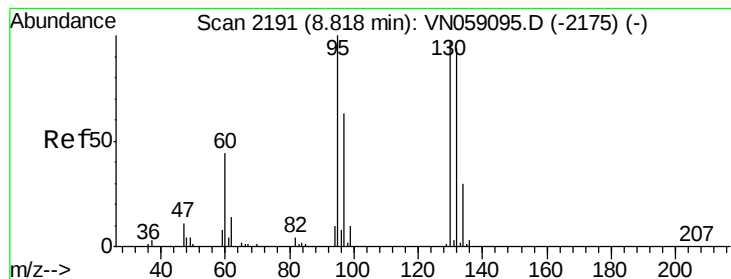


Abundance Ion 116.80 (116.50 to 117.50): VN059191.D (-1766) (-)

Ion 118.80 (118.50 to 119.50): VN059191.D (-1766) (-)

Ion 120.80 (120.50 to 121.50): VN059191.D (-1766) (-)





#44

Trichloroethene

Concen: 0.892 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

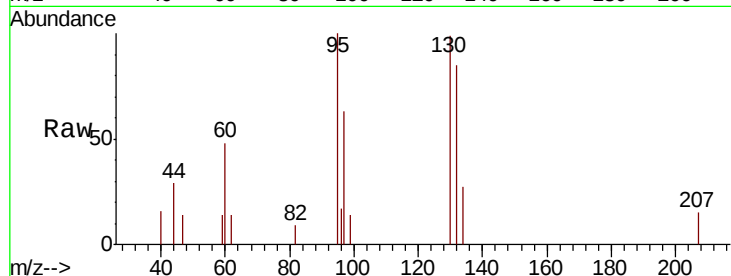
MW-307-SRI4

Tot Ion:130 Resp: 4136

Ion Ratio Lower Upper

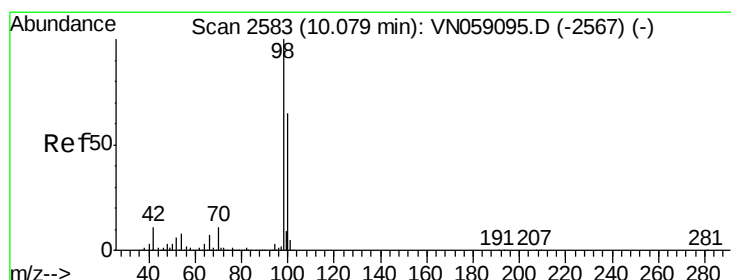
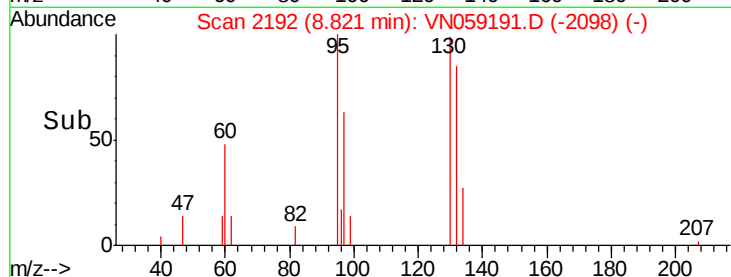
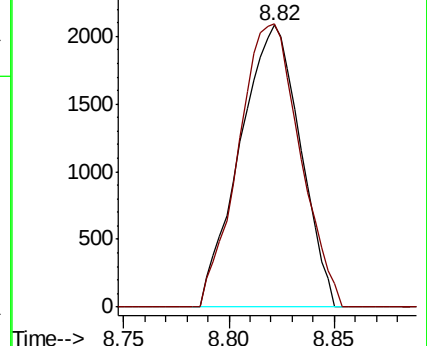
130 100

95 100.5 0.0 206.4



Abundance Ion 129.80 (129.50 to 130.50): VN059095.D (-2175) (-)

Ion 94.90 (94.60 to 95.60): VN059095.D (-2175) (-)



#50

Toluene-d8

Concen: 52.016 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN059191.D

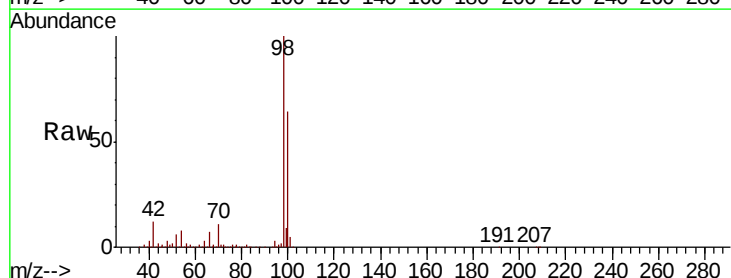
Acq: 12 Nov 2019 15:29

Tgt Ion: 98 Resp: 820085

Ion Ratio Lower Upper

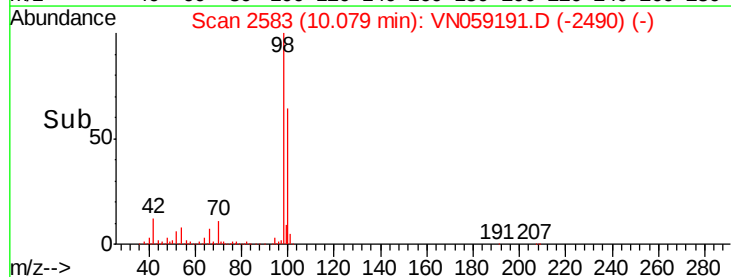
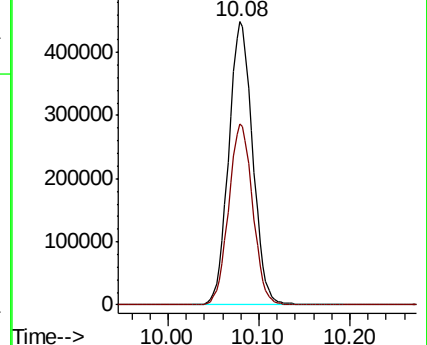
98 100

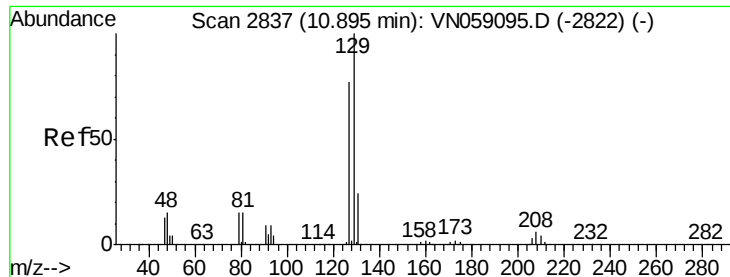
100 64.2 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN059095.D (-2567) (-)

Ion 100.00 (99.70 to 100.70): VN059095.D (-2567) (-)





#60

Dibromochloromethane

Concen: 3.409 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.27 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

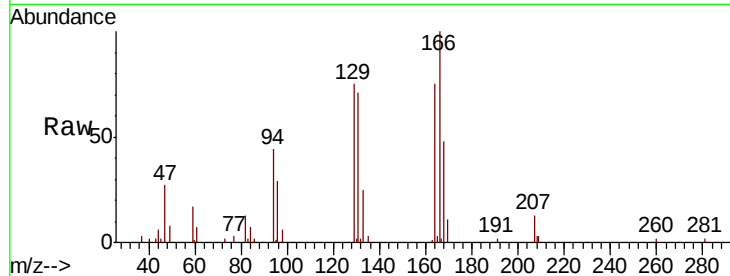
MW-307-SRI4

Tot Ion:129 Resp: 16497

Ion Ratio Lower Upper

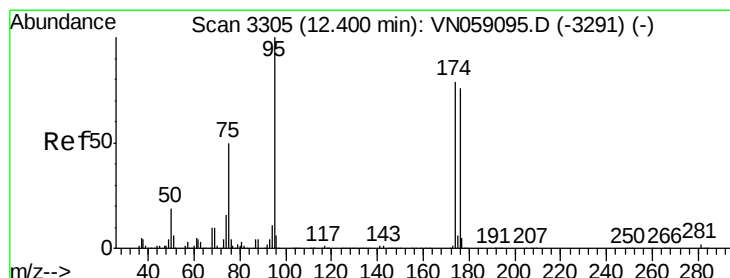
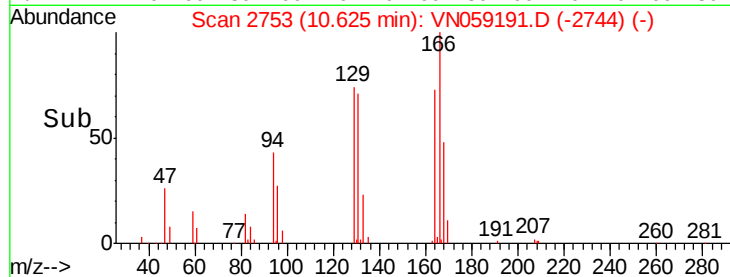
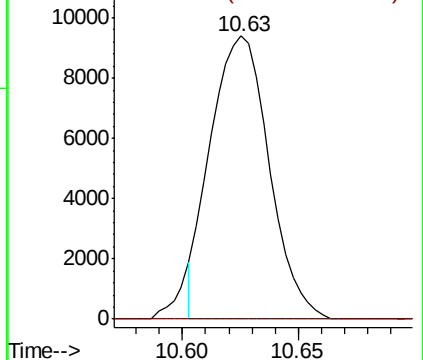
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 45.087 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

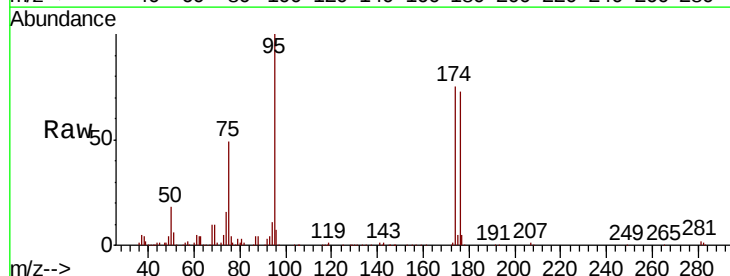
Tgt Ion: 95 Resp: 256303

Ion Ratio Lower Upper

95 100

174 78.0 0.0 158.2

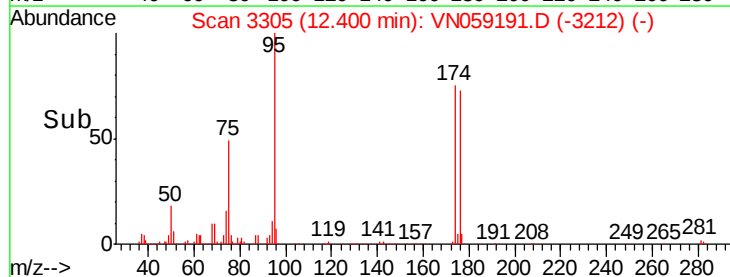
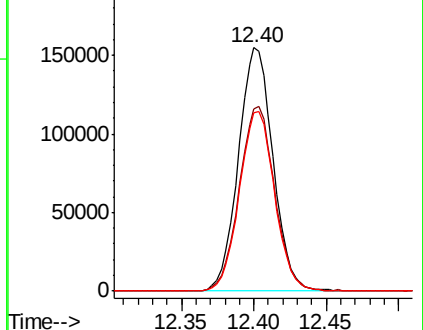
176 75.5 0.0 151.8

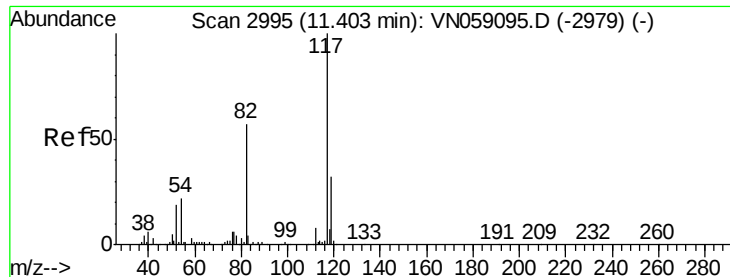


Abundance Ion 94.90 (94.60 to 95.60): V

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: 11.40 min Scan# 2995

Delta R.T. 0.00 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

MW-307-SRI4

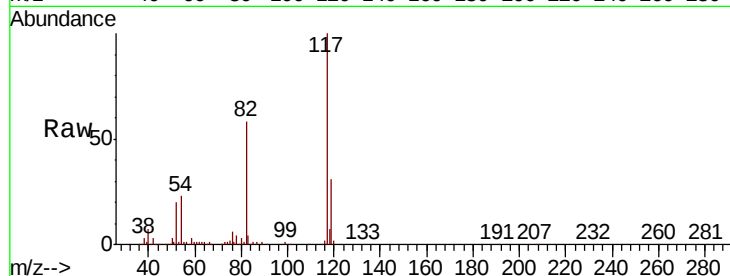
Tot Ion:117 Resp: 573010

Ion Ratio Lower Upper

117 100

82 57.6 45.8 68.8

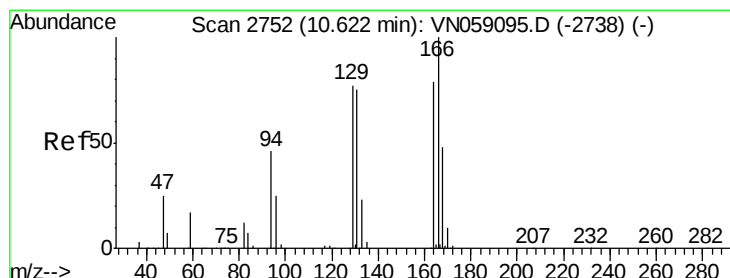
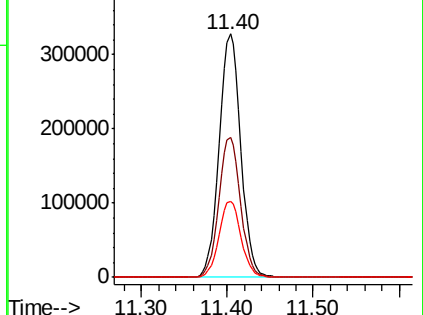
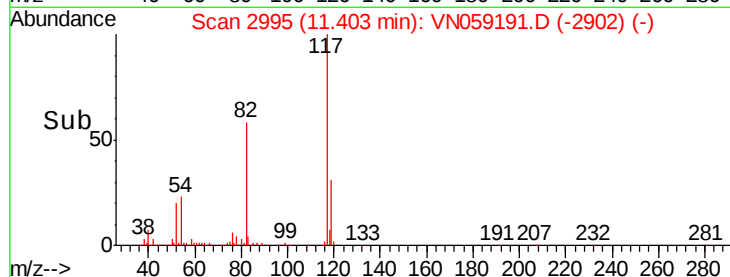
119 31.4 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 4.584 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

Tgt Ion:164 Resp: 17862

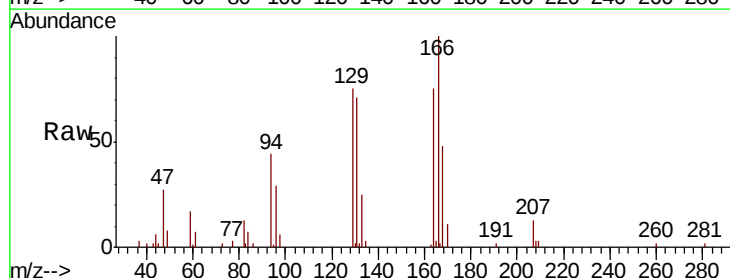
Ion Ratio Lower Upper

164 100

166 134.2 101.5 152.3

129 100.7 78.3 117.5

131 95.3 75.9 113.9

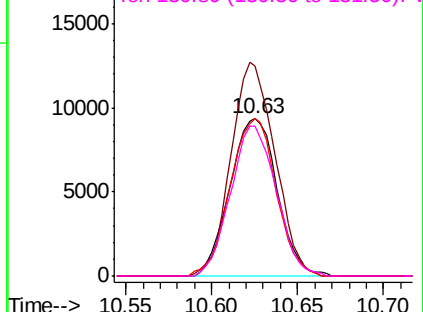
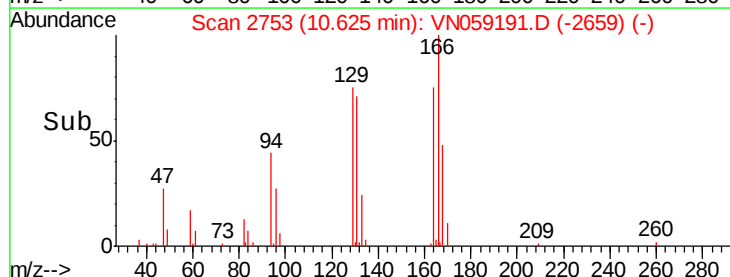


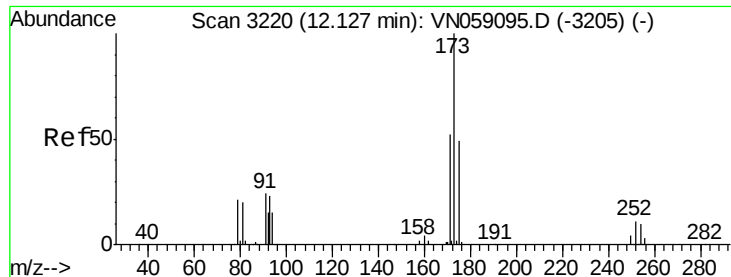
Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.472 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

MW-307-SRI4

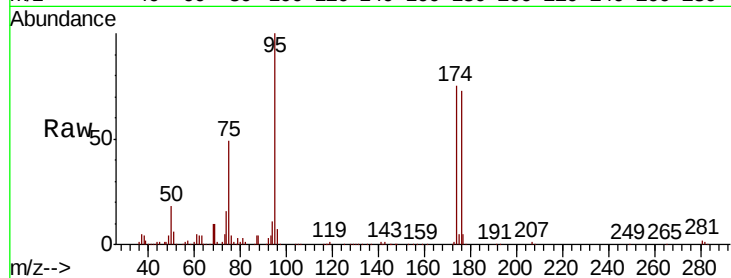
Tot Ion:173 Resp: 1538

Ion Ratio Lower Upper

173 100

175 805.4 24.2 72.6#

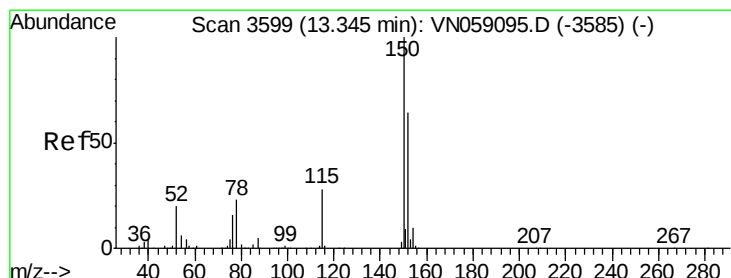
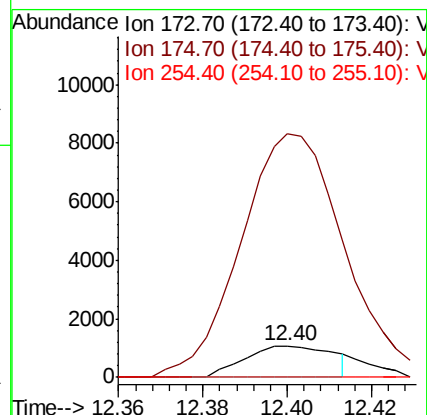
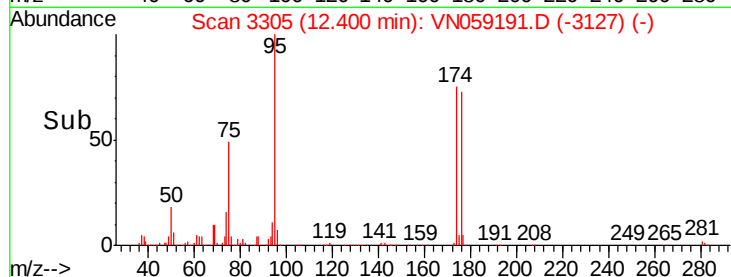
254 0.0 0.1 0.1#



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: VN059191.D

Acq: 12 Nov 2019 15:29

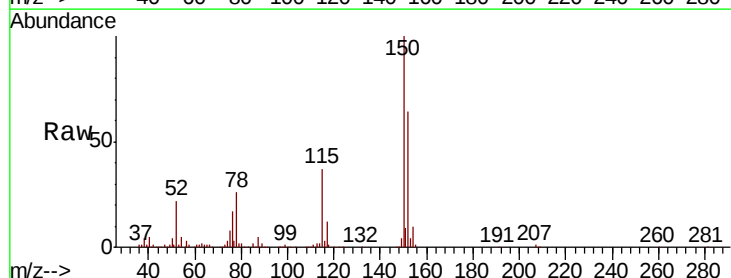
Tgt Ion:152 Resp: 208456

Ion Ratio Lower Upper

152 100

115 60.1 29.4 88.2

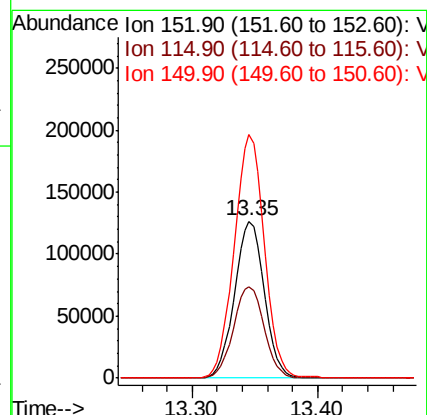
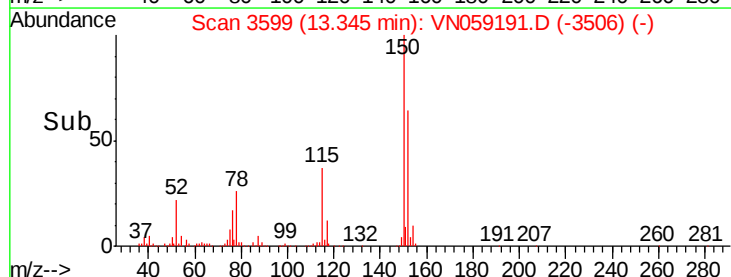
150 156.9 0.0 345.8

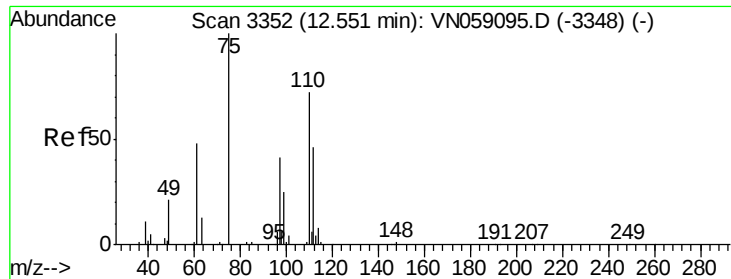


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 26.944 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

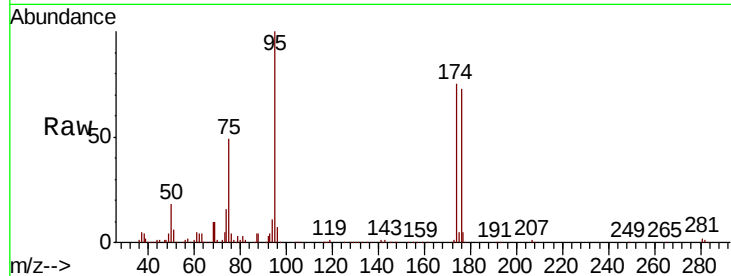
MW-307-SRI4

Tot Ion: 75 Resp: 127870

Ion Ratio Lower Upper

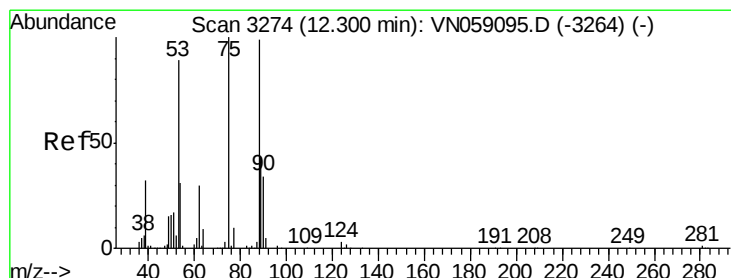
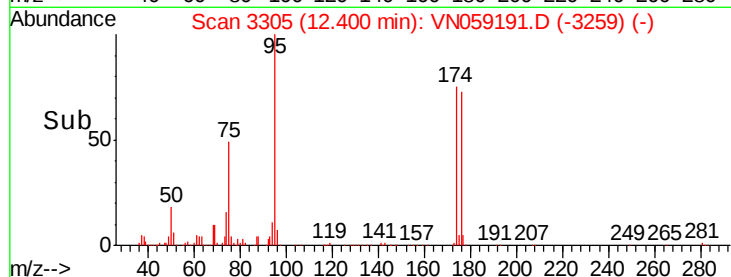
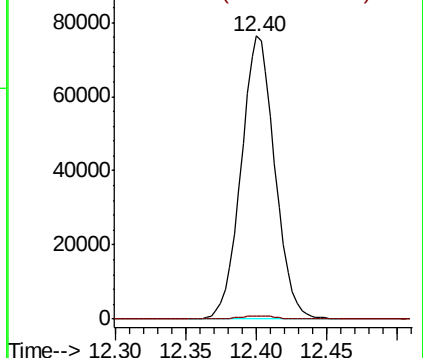
75 100

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: 71.165 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

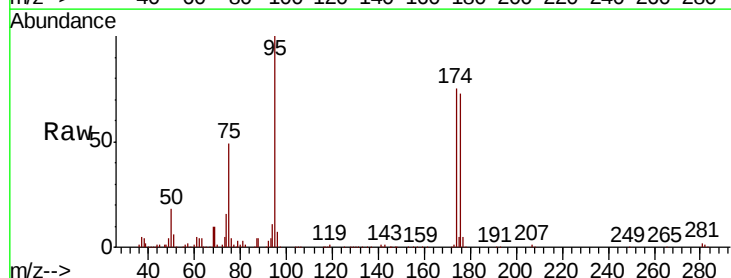
Tgt Ion: 75 Resp: 127870

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

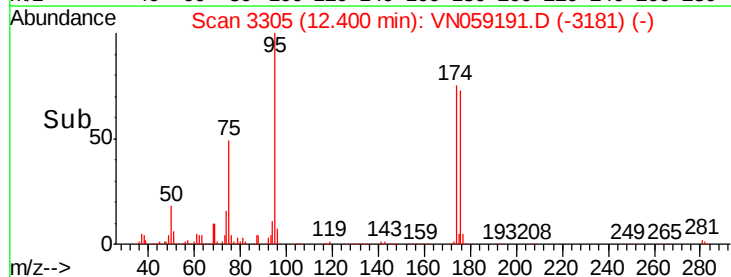
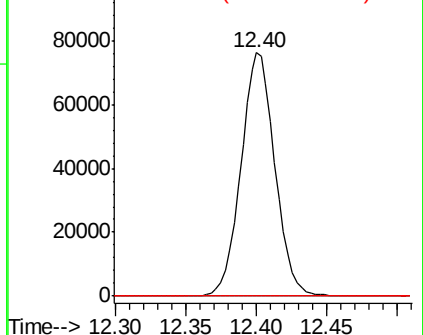
89 0.0 35.8 53.8#

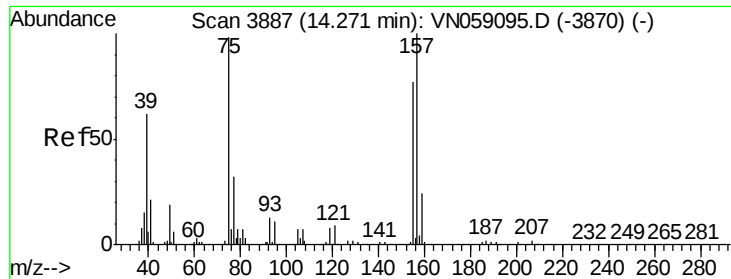


Abundance Ion 74.90 (74.60 to 75.60): VN0

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: 0.208 ug/l

RT: 14.30 min Scan# 3897

Delta R.T. 0.03 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

MW-307-SRI4

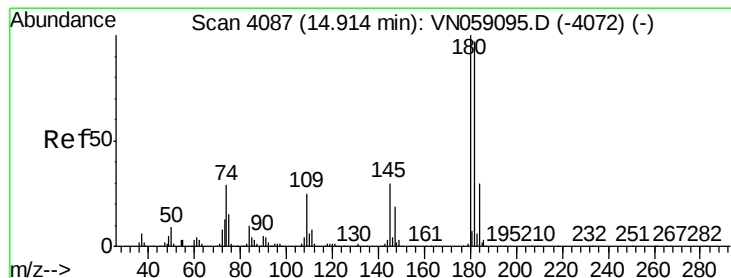
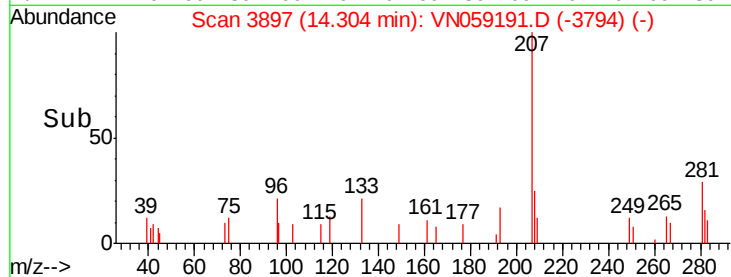
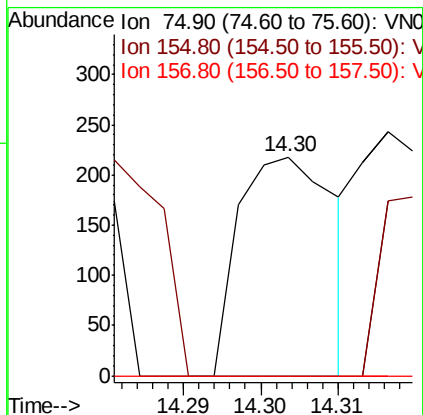
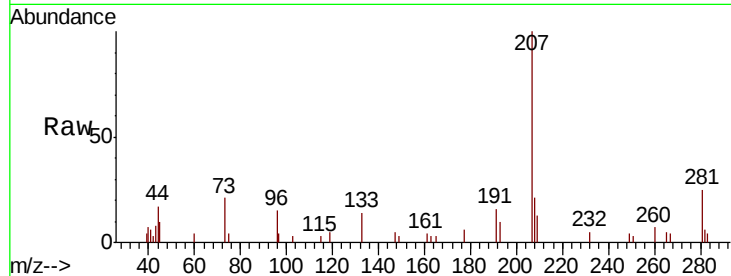
Tot Ion: 75 Resp: 187

Ion Ratio Lower Upper

75 100

155 0.0 40.2 120.6#

157 0.0 51.8 155.5#



#93

1,2,4-Trichlorobenzene

Concen: 3.117 ug/l

RT: 14.91 min Scan# 4087

Delta R.T. 0.00 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

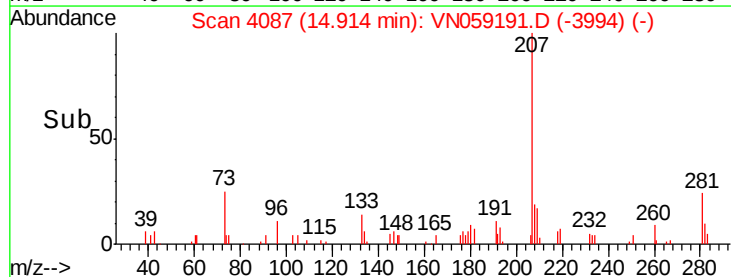
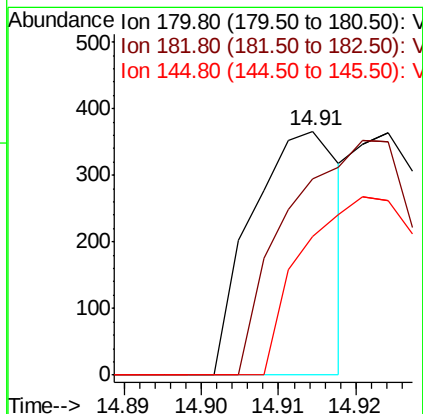
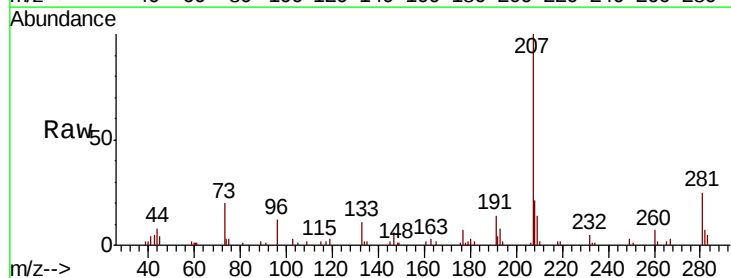
Tgt Ion: 180 Resp: 293

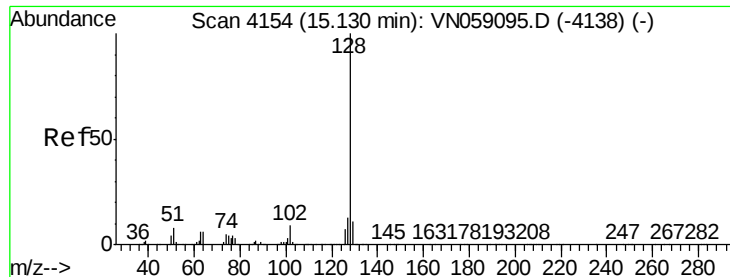
Ion Ratio Lower Upper

180 100

182 128.7 48.1 144.3

145 111.3 15.1 45.3#





#95

Naphthalene

Concen: 4.343 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampled :

MW-307-SRI4

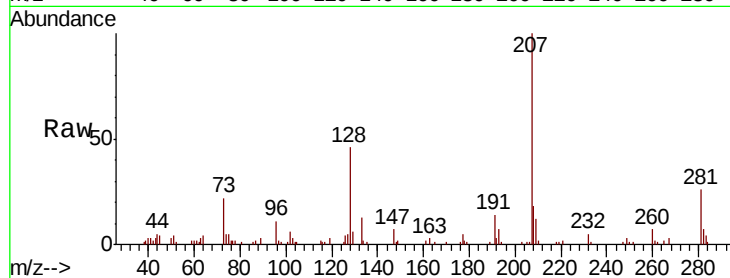
Tot Ion:128 Resp: 14936

Ion Ratio Lower Upper

128 100

127 11.0 10.2 15.2

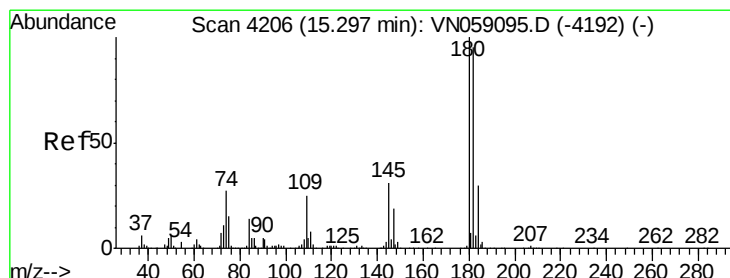
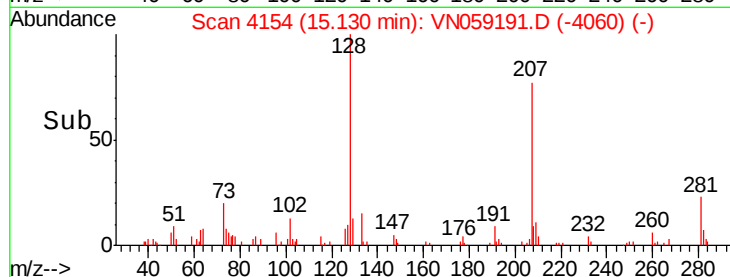
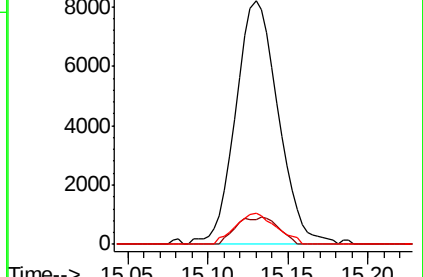
129 12.3 8.6 12.8



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: 0.222 ug/l

RT: 15.29 min Scan# 4205

Delta R.T. -0.00 min

Lab File: VN059191.D

Acq: 12 Nov 2019 15:29

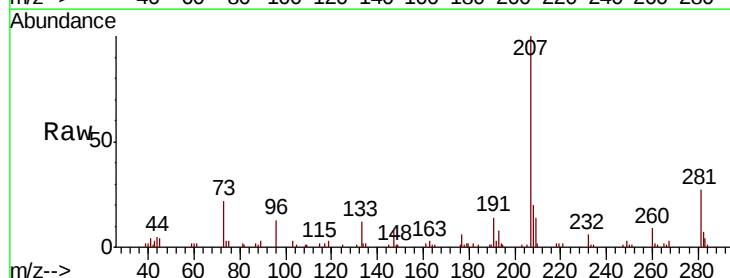
Tgt Ion:180 Resp: 800

Ion Ratio Lower Upper

180 100

182 74.1 47.3 141.8

145 49.4 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

