

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120519\
 Data File : VN059501.D
 Acq On : 5 Dec 2019 16:06
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Dec 06 00:34:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 03 16:37:42 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	289921	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	456562	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	400863	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	148910	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.00	65	189496	52.61	ug/l	0.00
Spiked Amount			Recovery	=	105.22%	
35) Dibromofluoromethane	7.56	113	144553	50.83	ug/l	0.00
Spiked Amount			Recovery	=	101.66%	
50) Toluene-d8	10.08	98	558725	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
62) 4-Bromofluorobenzene	12.40	95	176252	45.01	ug/l	0.00
Spiked Amount			Recovery	=	90.02%	

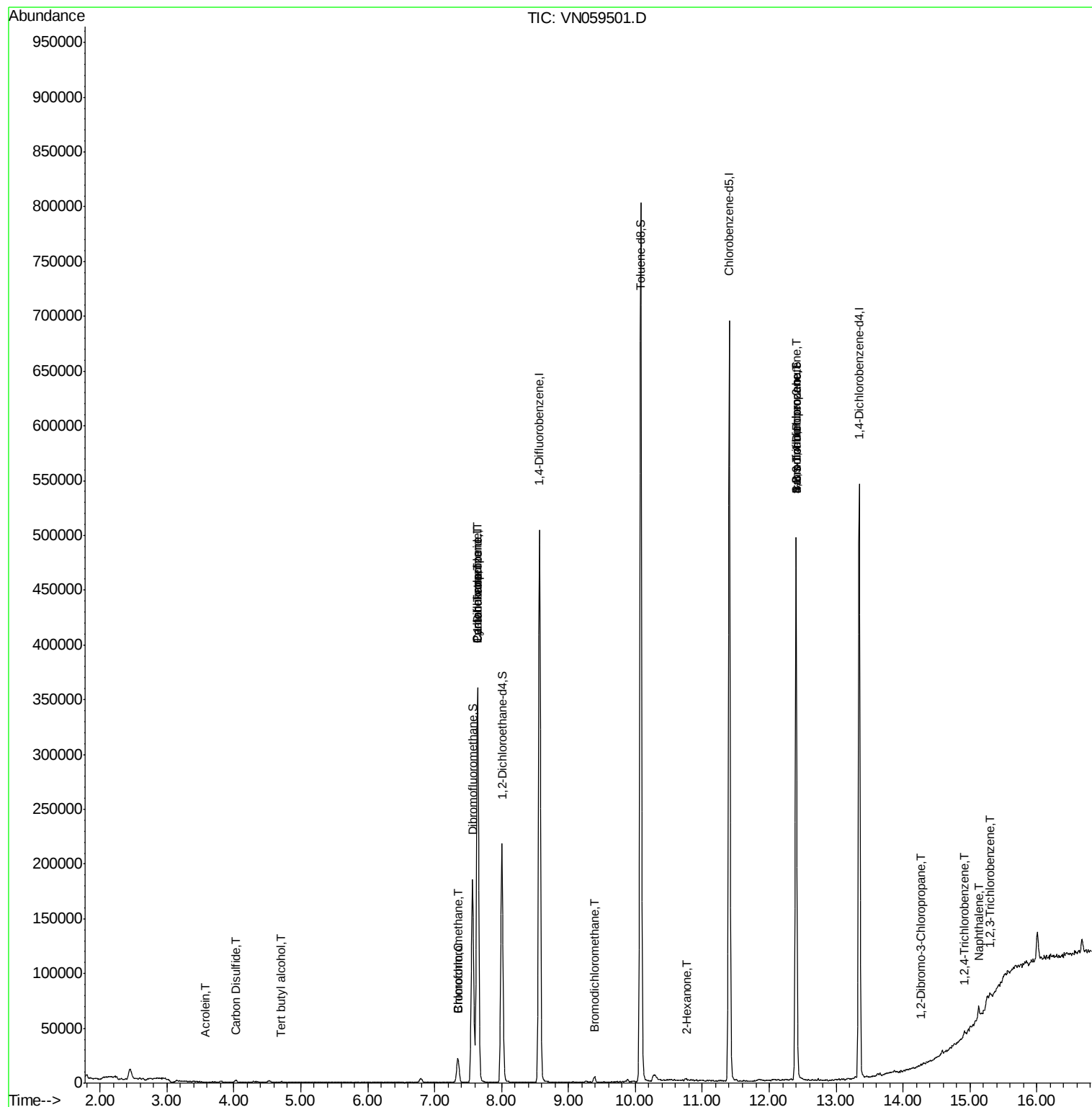
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.71	59	209	0.308	ug/l #	73
13) Acrolein	3.58	56	147	0.250	ug/l #	14
16) Acetone	3.80	43	508	Below Cal	#	44
17) Carbon Disulfide	4.03	76	3611	0.352	ug/l #	83
20) Methylene Chloride	4.51	84	562	Below Cal	#	71
28) Bromochloromethane	7.35	49	1969	1.383	ug/l #	15
30) Chloroform	7.35	83	24863	4.112	ug/l	98
31) Cyclohexane	7.64	56	6200	1.022	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	22794	4.798	ug/l #	49
38) Carbon Tetrachloride	7.64	117	28325	6.199	ug/l #	16
47) Bromodichloromethane	9.39	83	3797	0.818	ug/l #	97
59) 2-Hexanone	10.75	43	1280	0.363	ug/l	75
71) Bromoform	12.40	173	1027	0.418	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	89984	24.303	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	89984	63.781	ug/l #	15
92) 1,2-Dibromo-3-Chloropropan	14.27	75	567	0.588	ug/l #	2
93) 1,2,4-Trichlorobenzene	14.91	180	1598	0.519	ug/l	88
94) Hexachlorobutadiene	15.01	225	255	Below Cal		97
95) Naphthalene	15.13	128	8195	3.346	ug/l	97
96) 1,2,3-Trichlorobenzene	15.29	180	2166	2.638	ug/l #	17

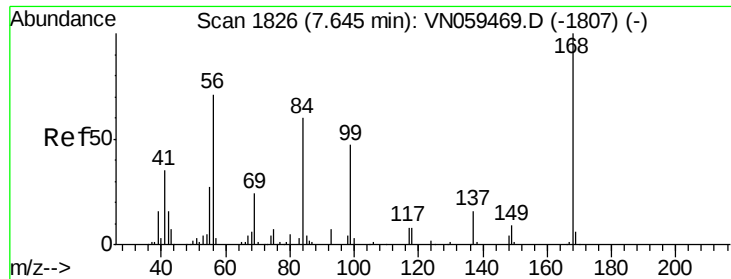
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VN059501.D
Acq On : 5 Dec 2019 16:06
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Misc : 5.00mL/MSVOA N/WATER
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Instrument :
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IBLK

Quant Time: Dec 06 00:34:00 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N120319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 03 16:37:42 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN059501.D

Acq: 5 Dec 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

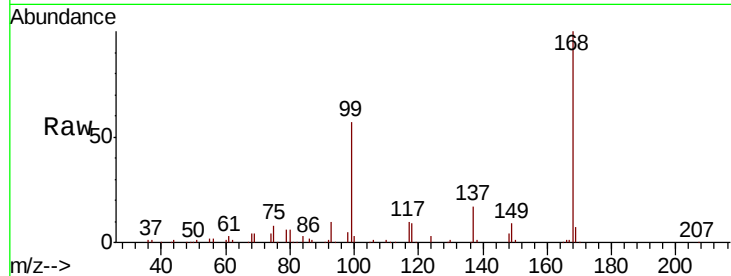
IBLK

Tot Ion:168 Resp: 289921

Ion Ratio Lower Upper

168 100

99 57.3 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): VN059469.D (-1807) (-)

Ion 98.90 (98.60 to 99.60): VN059469.D (-1807) (-)

7.64

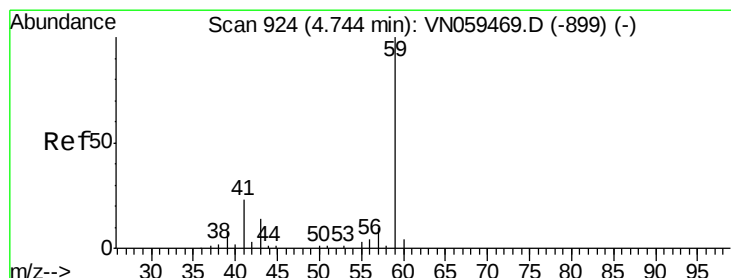
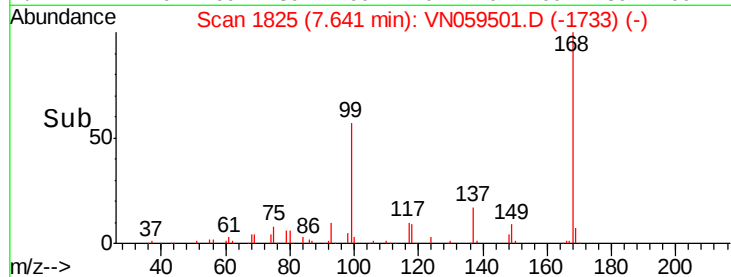
100000

50000

0

7.50 7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.308 ug/l

RT: 4.71 min Scan# 914

Delta R.T. -0.03 min

Lab File: VN059501.D

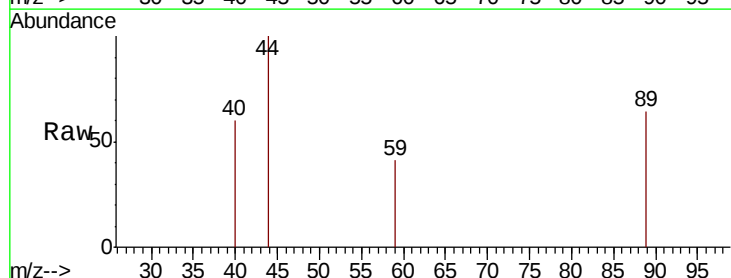
Acq: 5 Dec 2019 16:06

Tgt Ion: 59 Resp: 209

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VN059469.D (-899) (-)

Ion 57.00 (56.70 to 57.70): VN059469.D (-899) (-)

4.71

200

150

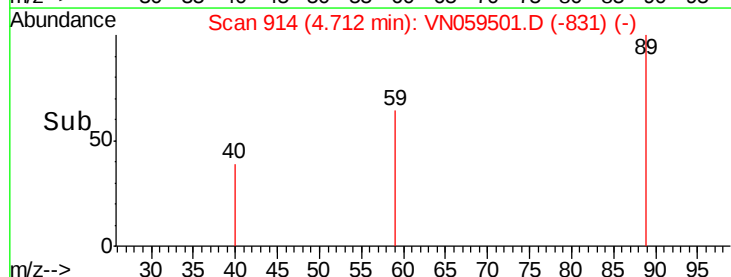
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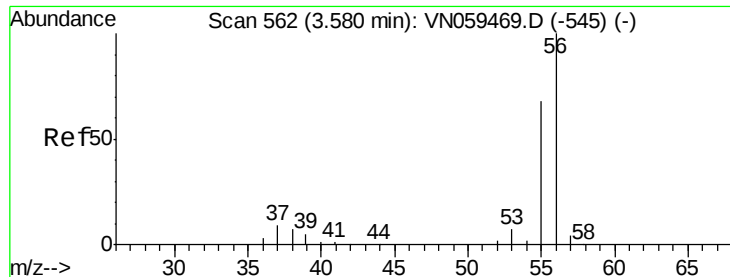
50

0

4.70 4.72

Time-->





#13

Acrolein

Concen: 0.250 ug/l

RT: 3.58 min Scan# 563

Delta R.T. 0.00 min

Lab File: VN059501.D

Acq: 5 Dec 2019 16:06

Instrument :

MSVOA_N

ClientSampled :

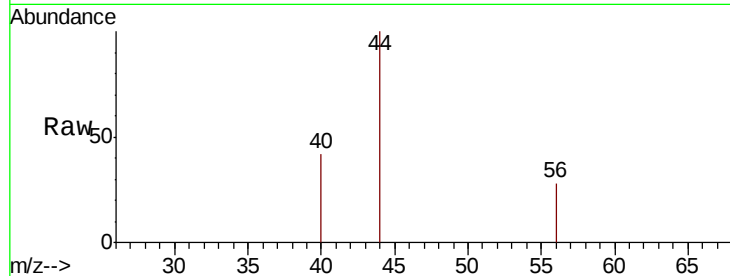
IBLK

Tot Ion: 56 Resp: 147

Ion Ratio Lower Upper

56 100

55 0.0 56.5 84.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.58

200

150

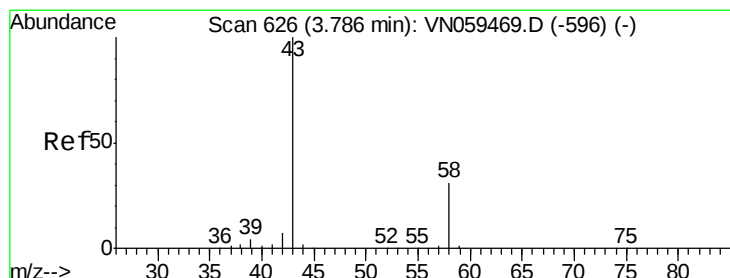
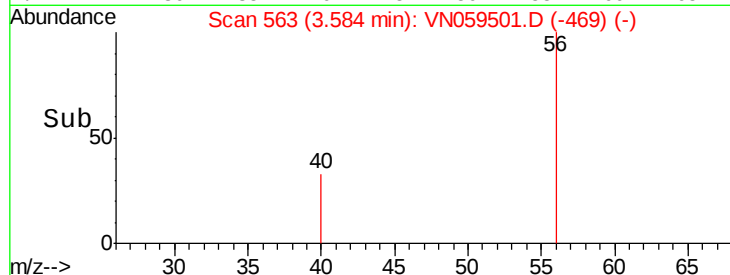
100

50

0

Time-->

3.57 3.58 3.59 3.60



#16

Acetone

Concen: Below Cal

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN059501.D

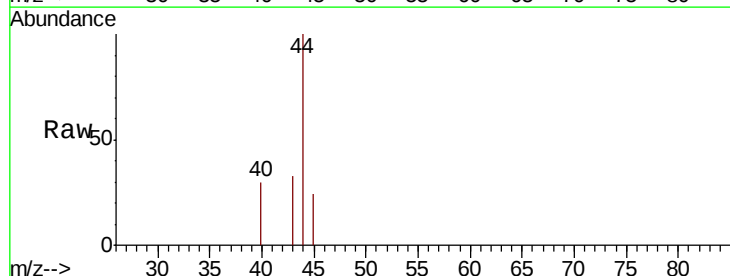
Acq: 5 Dec 2019 16:06

Tgt Ion: 43 Resp: 508

Ion Ratio Lower Upper

43 100

58 0.0 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.80

300

250

200

150

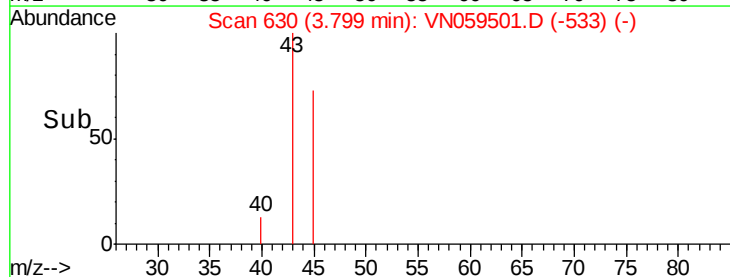
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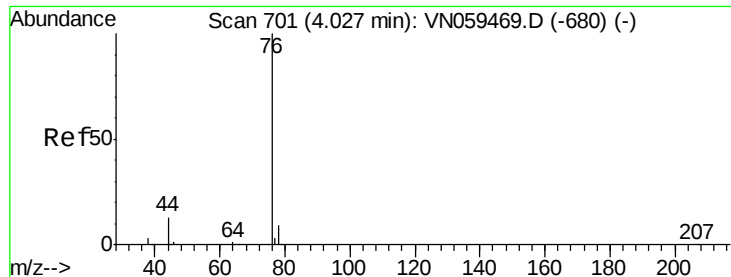
50

0

Time-->

3.76 3.78 3.80 3.82





#17

Carbon Disulfide

Concen: 0.352 ug/l

RT: 4.03 min Scan# 701

Delta R.T. -0.00 min

Lab File: VN059501.D

Acq: 5 Dec 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

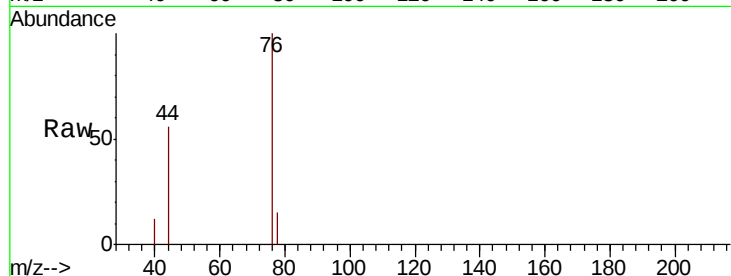
IBLK

Tot Ion: 76 Resp: 3611

Ion Ratio Lower Upper

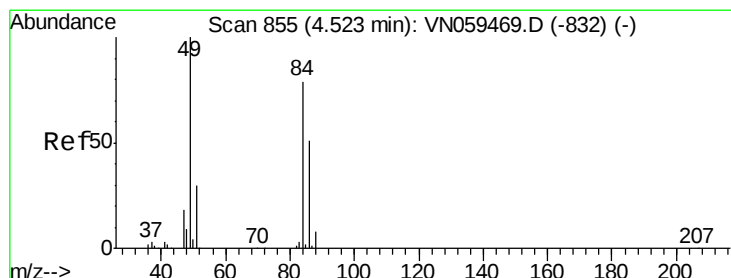
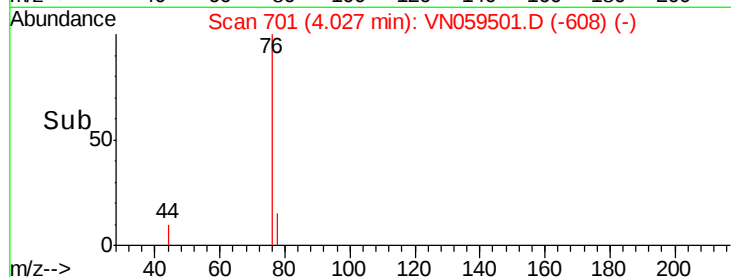
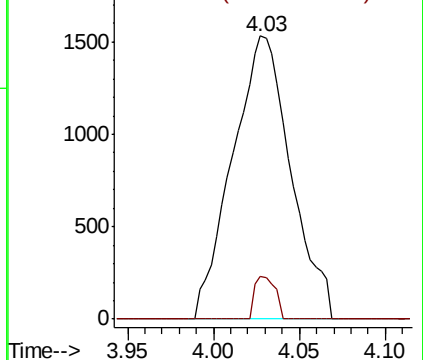
76 100

78 14.9 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.51 min Scan# 851

Delta R.T. -0.01 min

Lab File: VN059501.D

Acq: 5 Dec 2019 16:06

Tgt Ion: 84 Resp: 562

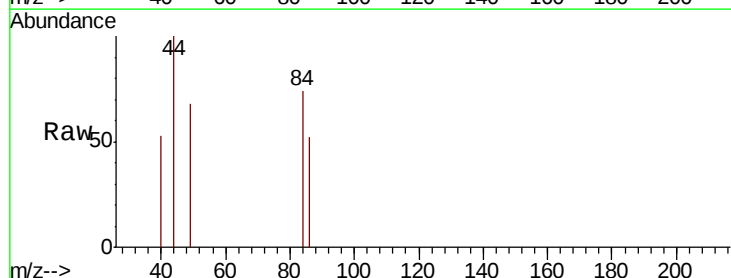
Ion Ratio Lower Upper

84 100

49 92.2 101.1 151.7#

51 0.0 30.7 46.1#

86 70.0 51.4 77.0

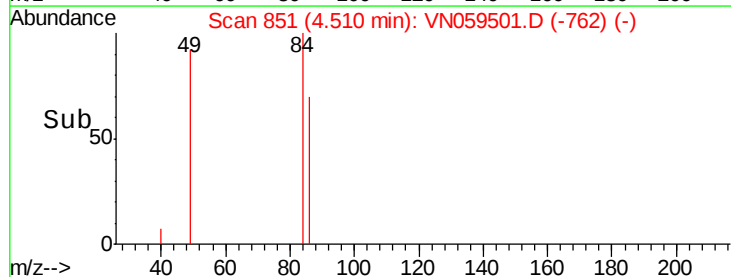
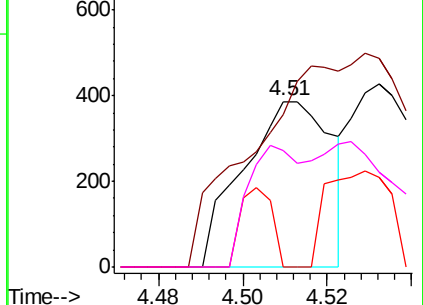


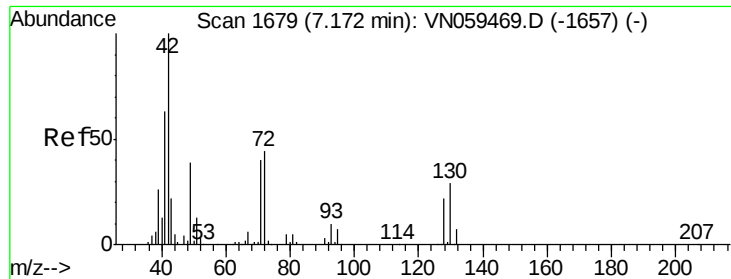
Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC

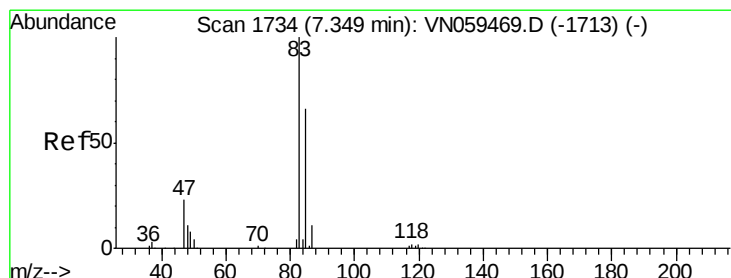
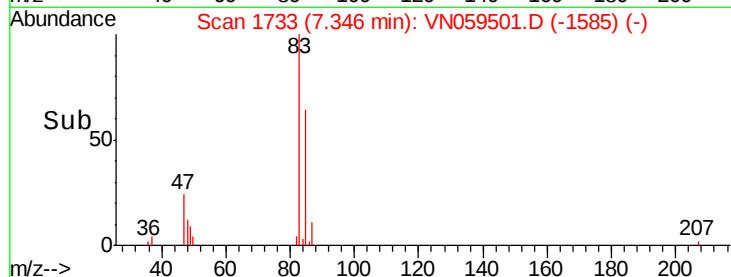
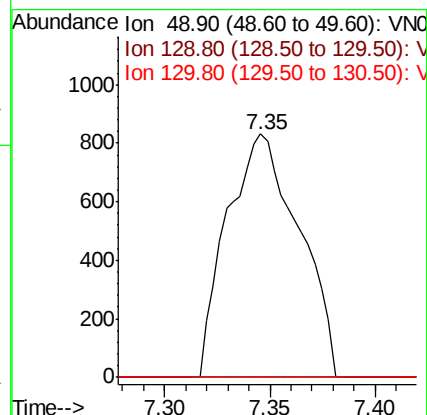
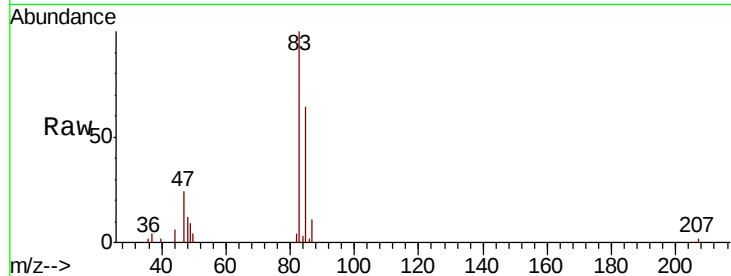




#28
Bromochloromethane
Concen: 1.383 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. 0.17 min
Lab File: VN059501.D
Acq: 5 Dec 2019 16:06

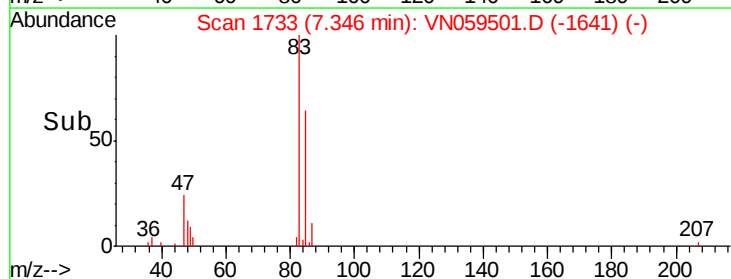
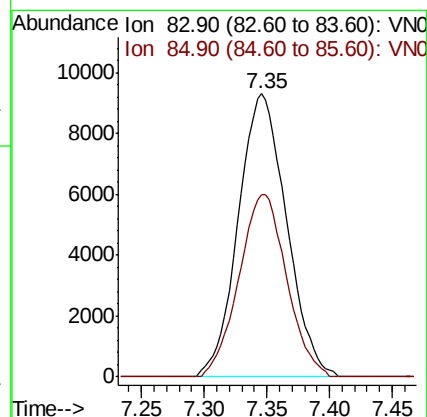
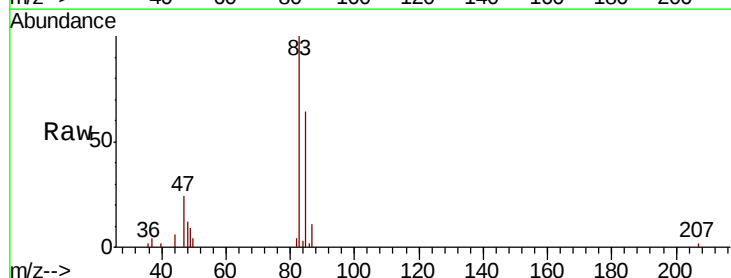
Instrument :
MSVOA_N
ClientSampled :
IBLK

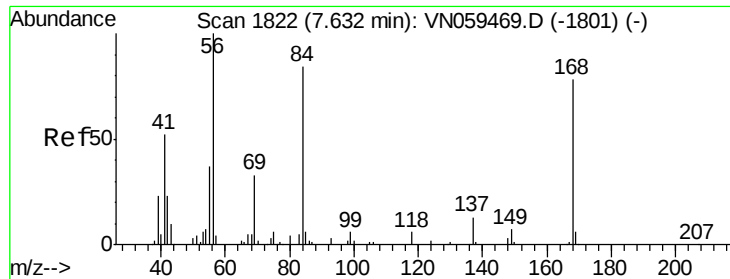
Tot Ion: 49 Resp: 1969
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.2
130 0.0 58.4 87.6#



#30
Chloroform
Concen: 4.112 ug/l
RT: 7.35 min Scan# 1733
Delta R.T. -0.00 min
Lab File: VN059501.D
Acq: 5 Dec 2019 16:06

Tgt Ion: 83 Resp: 24863
Ion Ratio Lower Upper
83 100
85 64.2 52.4 78.6

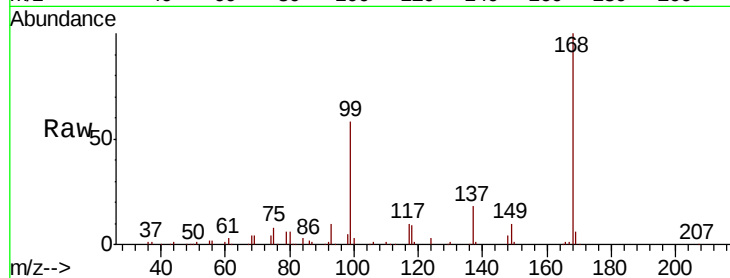




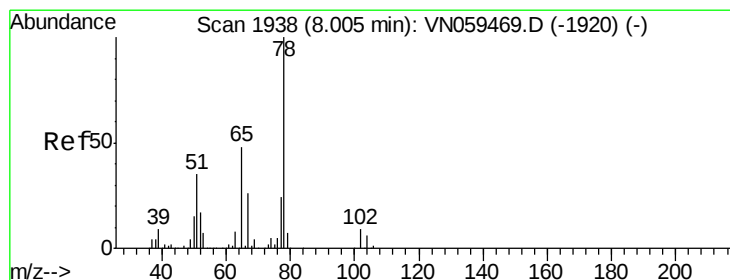
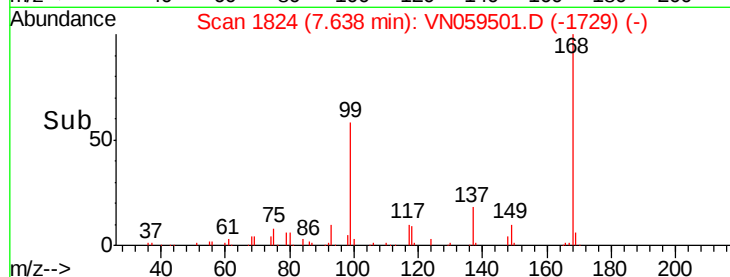
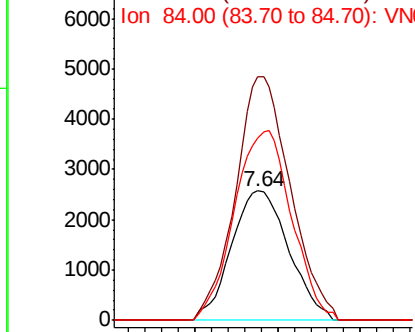
#31
Cyclohexane
Concen: 1.022 ug/l
RT: 7.64 min Scan# 1824
Delta R.T. 0.01 min
Lab File: VN059501.D
Acq: 5 Dec 2019 16:06

Instrument :
MSVOA_N
ClientSampled :
IBLK

Tot Ion: 56 Resp: 6200
Ion Ratio Lower Upper
56 100
69 188.4 26.2 39.4#
84 141.0 66.8 100.2#

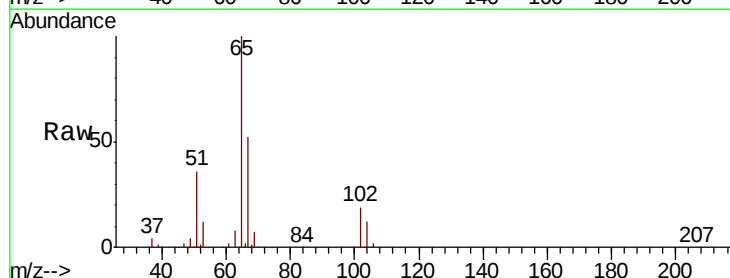


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

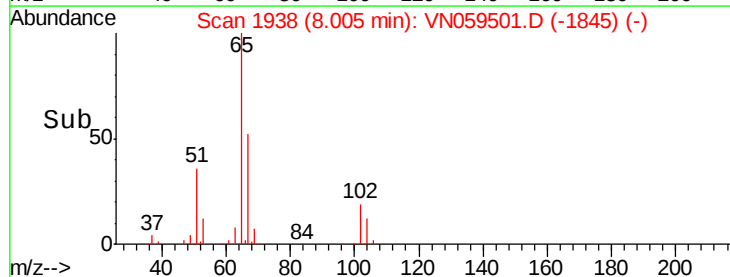
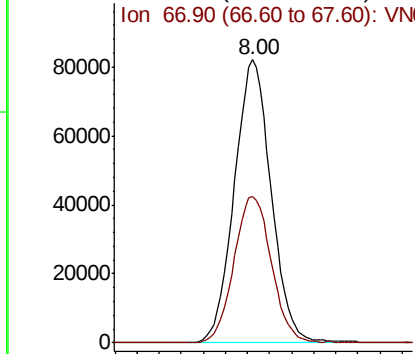


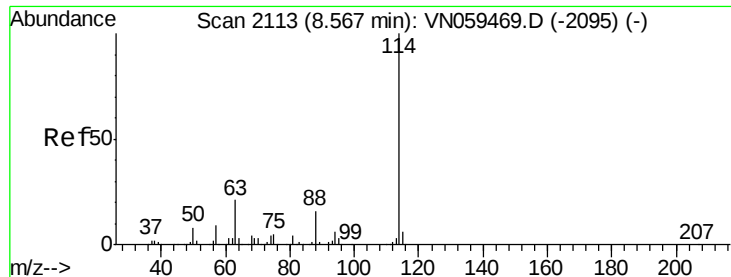
#33
1,2-Dichloroethane-d4
Concen: 52.614 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. -0.00 min
Lab File: VN059501.D
Acq: 5 Dec 2019 16:06

Tgt Ion: 65 Resp: 189496
Ion Ratio Lower Upper
65 100
67 52.6 0.0 107.4



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

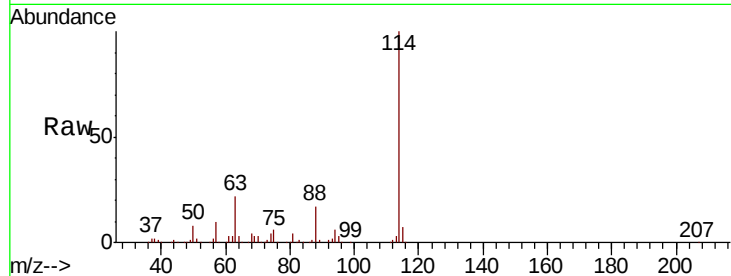




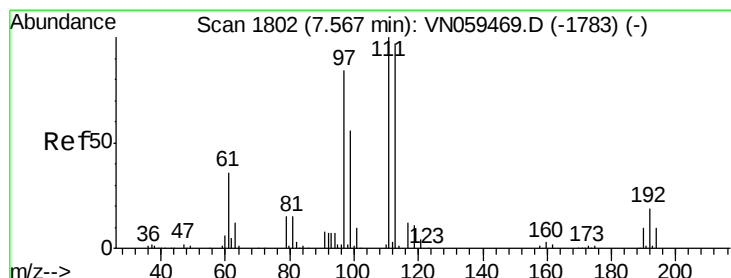
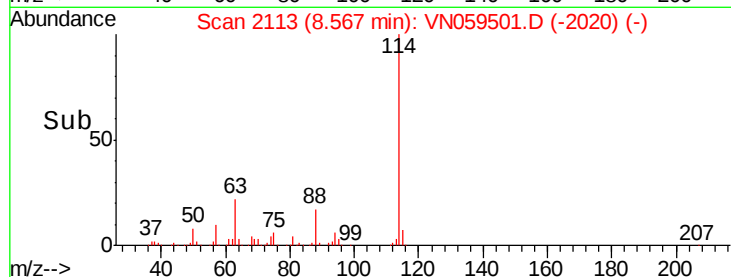
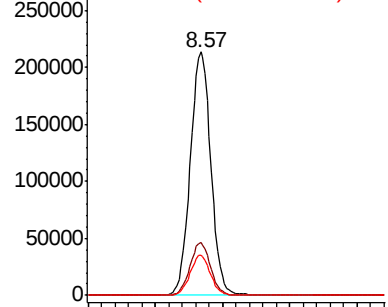
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. -0.00 min
 Lab File: VN059501.D
 Acq: 5 Dec 2019 16:06

Instrument :
 MSVOA_N
 ClientSampled :
 IBLK

Tot Ion	Ratio	Lower	Upper
114	100		
63	21.7	0.0	42.4
88	16.7	0.0	32.8

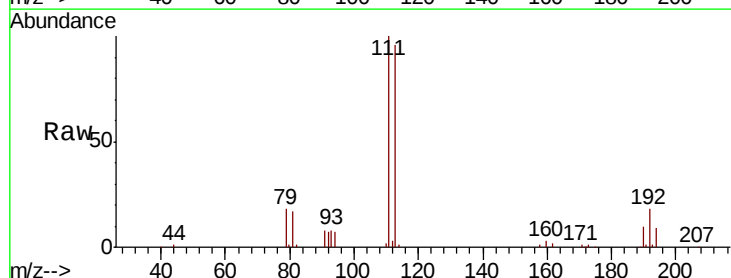


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

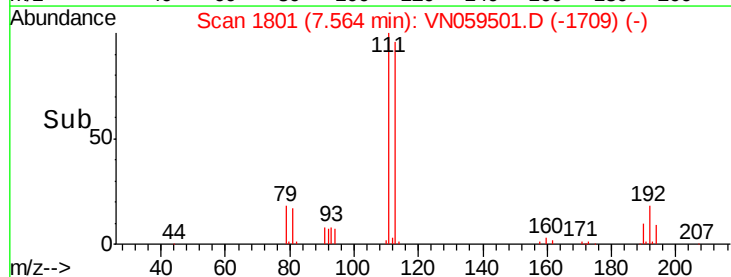
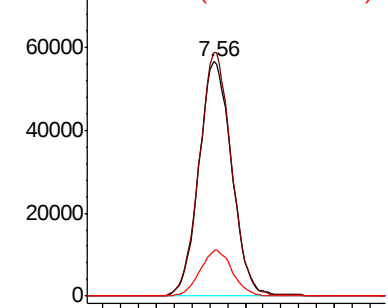


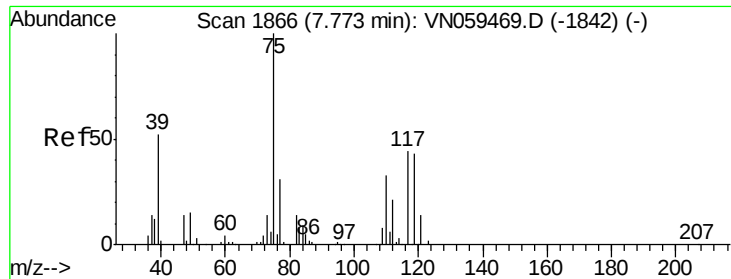
#35
 Dibromofluoromethane
 Concen: 50.835 ug/l
 RT: 7.56 min Scan# 1801
 Delta R.T. -0.00 min
 Lab File: VN059501.D
 Acq: 5 Dec 2019 16:06

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.7	82.5	123.7
192	19.3	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

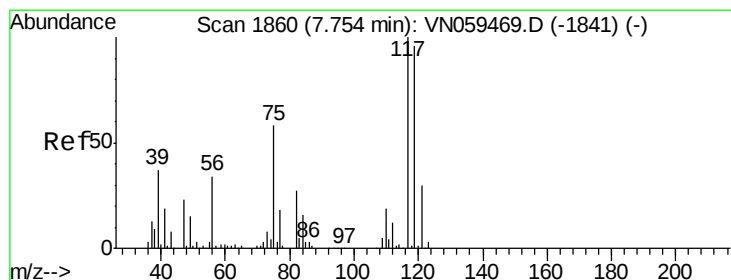
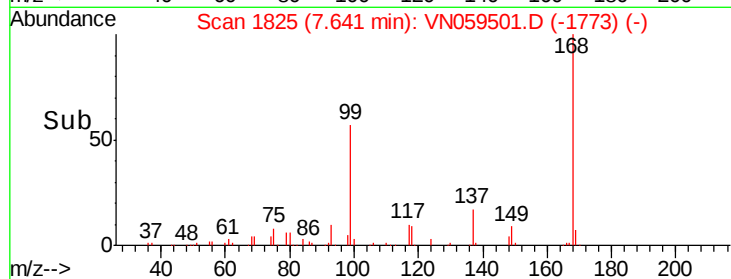
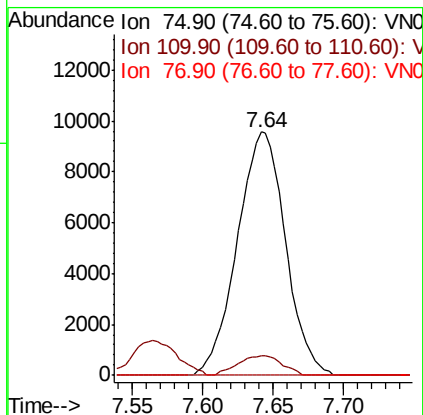
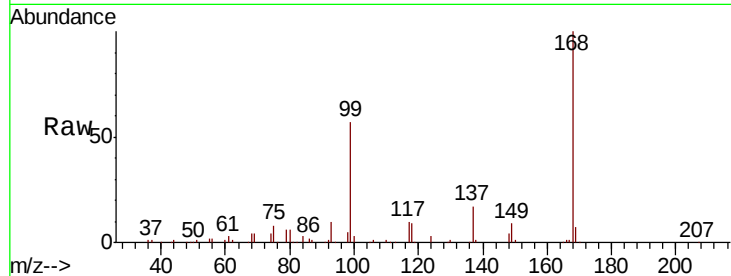




#36
 1,1-Dichloropropene
 Concen: 4.798 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059501.D
 Acq: 5 Dec 2019 16:06

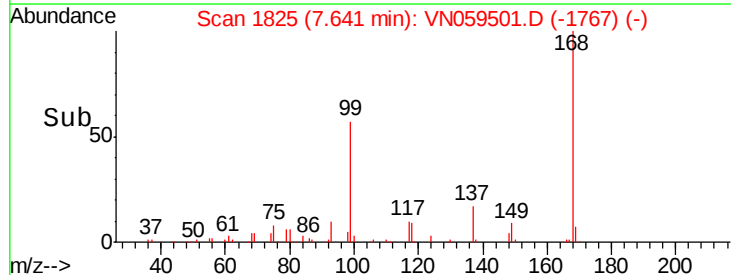
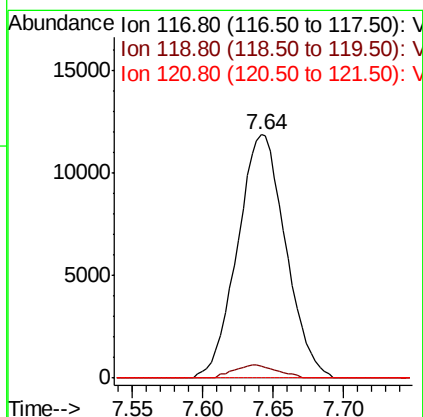
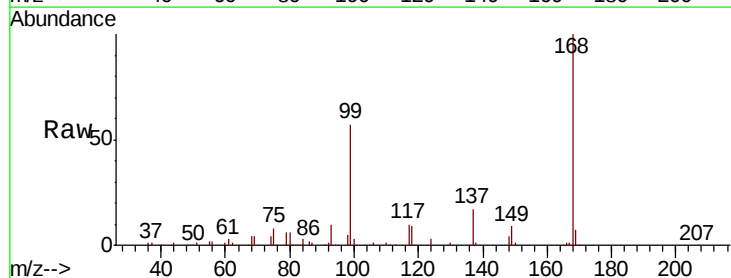
Instrument :
 MSVOA_N
 ClientSampled :
 IBLK

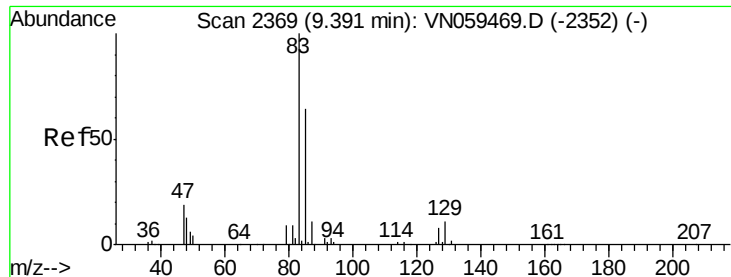
Tot Ion: 75 Resp: 22794
 Ion Ratio Lower Upper
 75 100
 110 7.4 16.9 50.7#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 6.199 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.11 min
 Lab File: VN059501.D
 Acq: 5 Dec 2019 16:06

Tgt Ion: 117 Resp: 28325
 Ion Ratio Lower Upper
 117 100
 119 4.9 76.6 114.8#
 121 0.0 24.0 36.0#





#47

Bromodichloromethane

Concen: 0.818 ug/l

RT: 9.39 min Scan# 2368

Delta R.T. -0.00 min

Lab File: VN059501.D

Acq: 5 Dec 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

IBLK

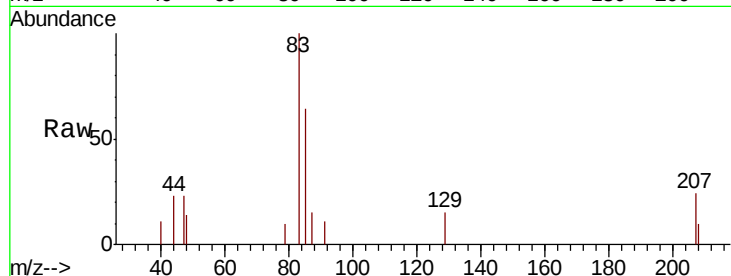
Tot Ion: 83 Resp: 3797

Ion Ratio Lower Upper

83 100

85 63.8 51.0 76.6

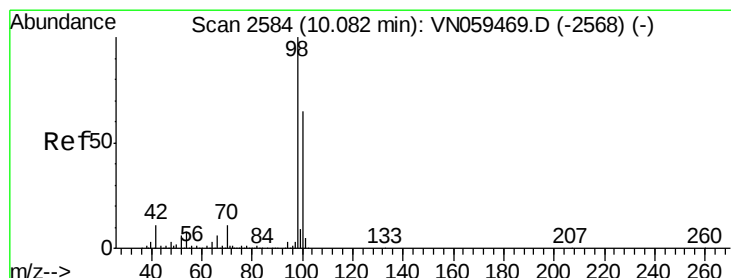
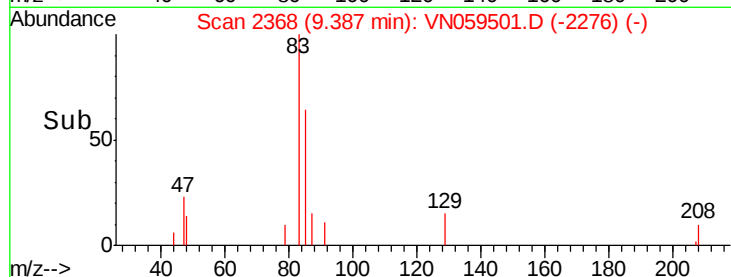
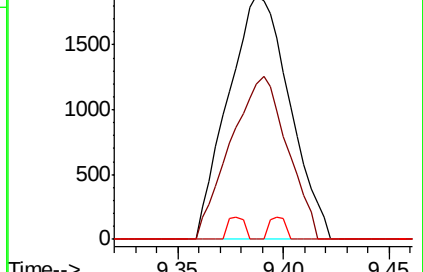
127 0.0 6.6 9.8#



Abundance Ion 82.90 (82.60 to 83.60): VN059469.D (-2352) (-)

Ion 84.90 (84.60 to 85.60): VN059469.D (-2352) (-)

Ion 126.80 (126.50 to 127.50): VN059469.D (-2352) (-)



#50

Toluene-d8

Concen: 49.834 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN059501.D

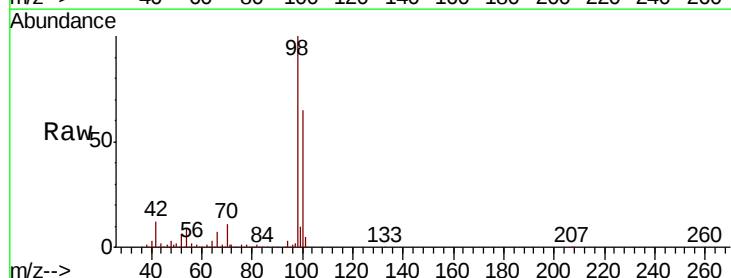
Acq: 5 Dec 2019 16:06

Tgt Ion: 98 Resp: 558725

Ion Ratio Lower Upper

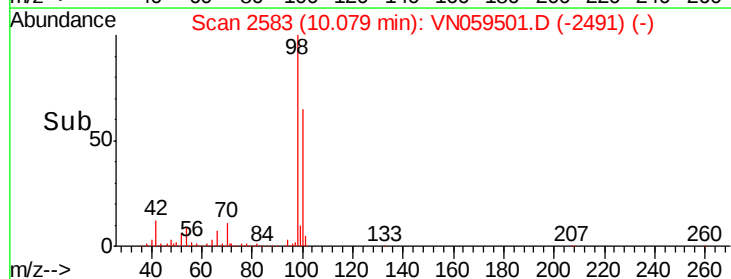
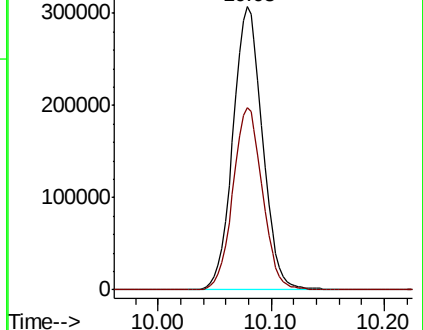
98 100

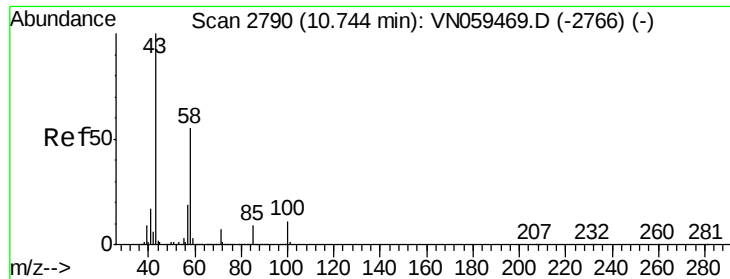
100 64.4 52.1 78.1



Abundance Ion 98.00 (97.70 to 98.70): VN059469.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN059469.D (-2568) (-)

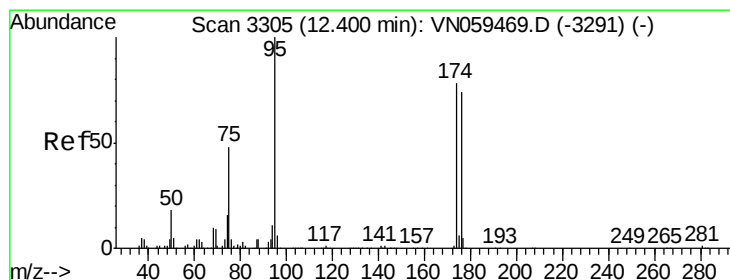
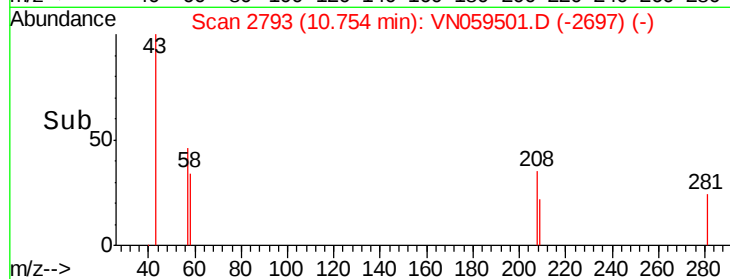
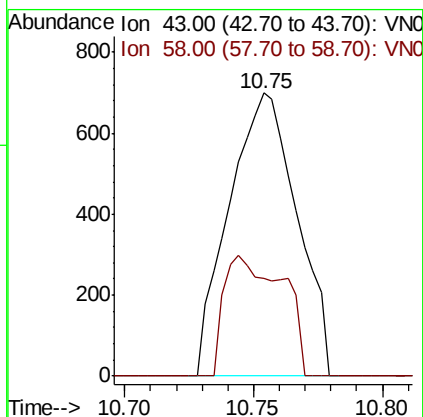
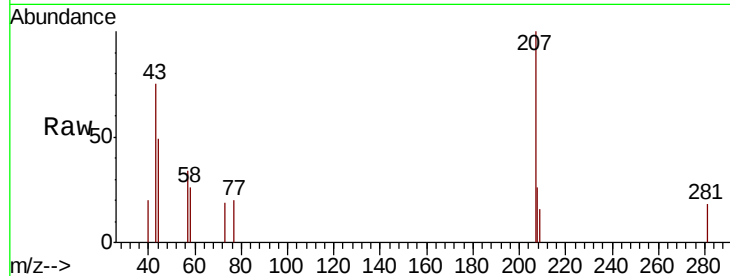




#59
2-Hexanone
Concen: 0.363 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.01 min
Lab File: VN059501.D
Acq: 5 Dec 2019 16:06

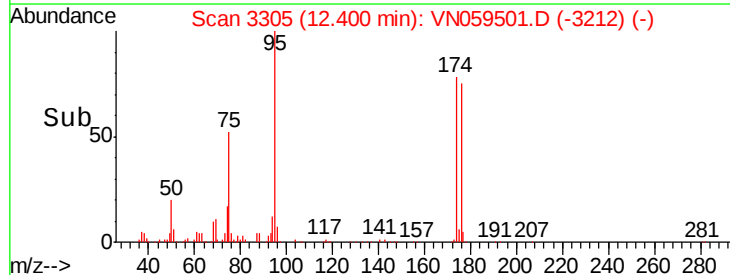
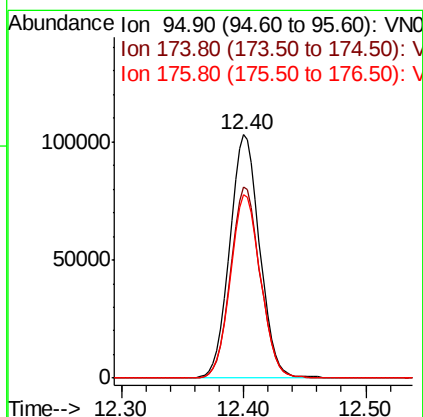
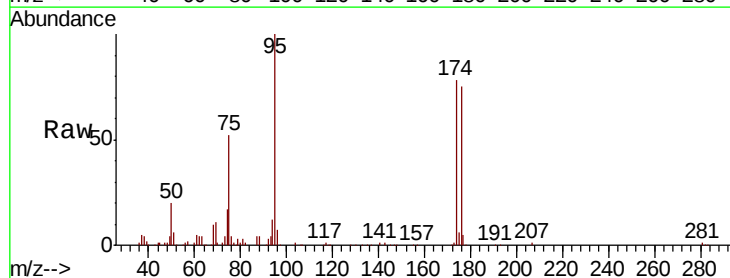
Instrument :
MSVOA_N
ClientSampleId :
IBLK

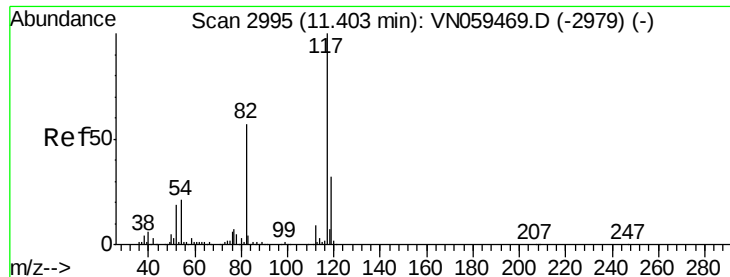
Tot Ion: 43 Resp: 1280
Ion Ratio Lower Upper
43 100
58 36.9 27.7 83.0



#62
4-Bromofluorobenzene
Concen: 45.015 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN059501.D
Acq: 5 Dec 2019 16:06

Tgt Ion: 95 Resp: 176252
Ion Ratio Lower Upper
95 100
174 78.0 0.0 157.0
176 76.1 0.0 152.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2995

Delta R.T. -0.00 min

Lab File: VN059501.D

Acq: 5 Dec 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

IBLK

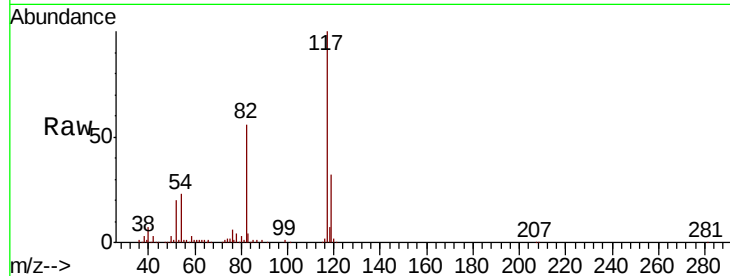
Tot Ion:117 Resp: 400863

Ion Ratio Lower Upper

117 100

82 56.2 45.8 68.8

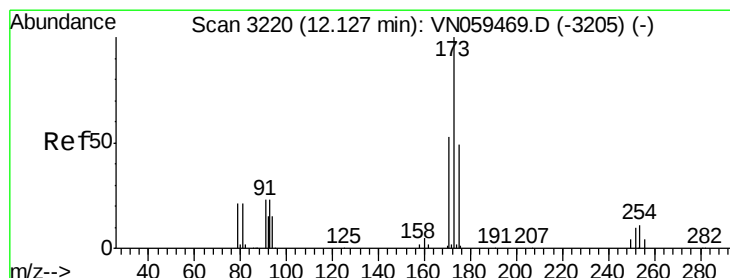
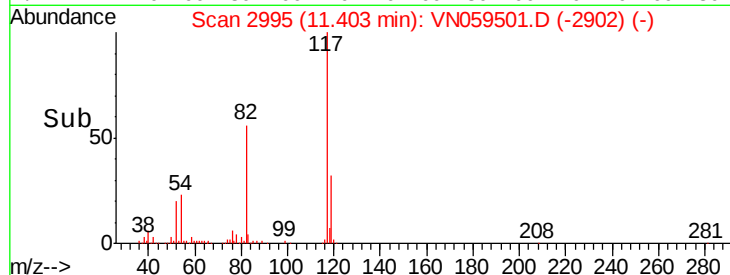
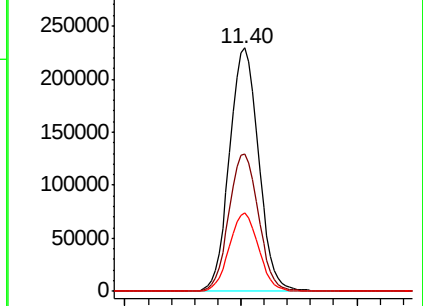
119 32.1 25.4 38.0



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



#71

Bromoform

Concen: 0.418 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN059501.D

Acq: 5 Dec 2019 16:06

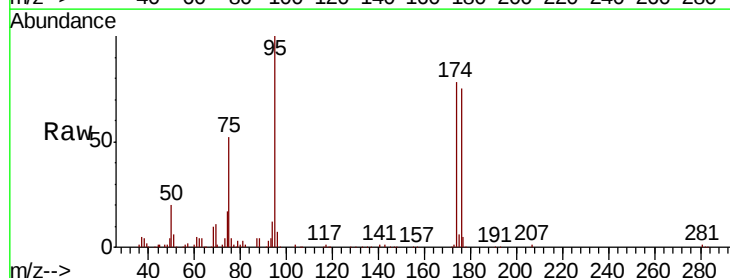
Tgt Ion:173 Resp: 1027

Ion Ratio Lower Upper

173 100

175 891.5 24.3 73.0#

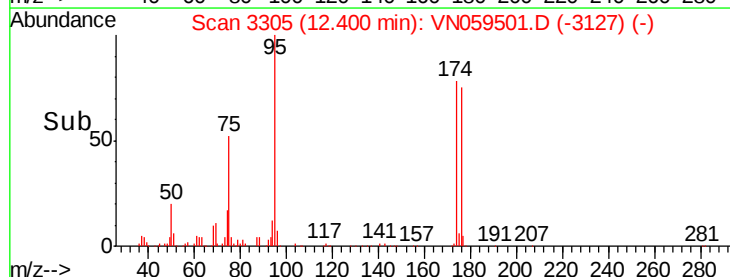
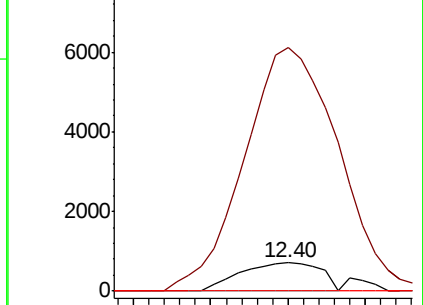
254 0.0 0.0 0.0

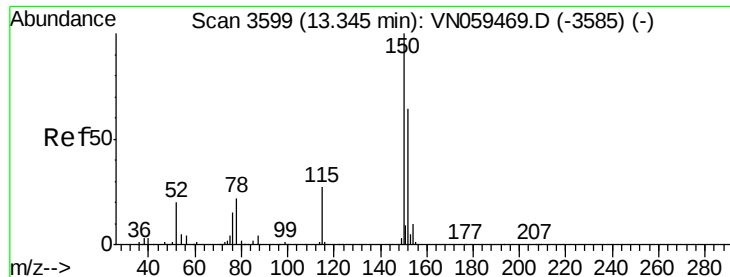


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3599

Delta R.T. -0.00 min

Lab File: VN059501.D

Acq: 5 Dec 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

IBLK

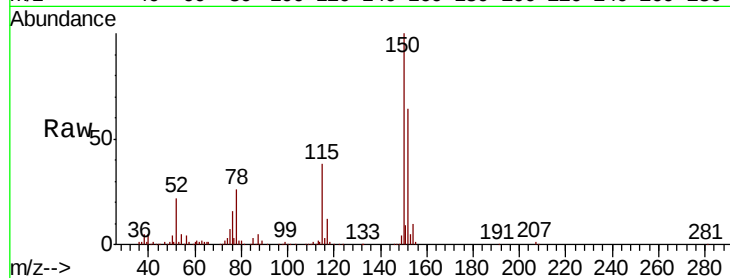
Tot Ion:152 Resp: 148910

Ion Ratio Lower Upper

152 100

115 59.8 29.2 87.6

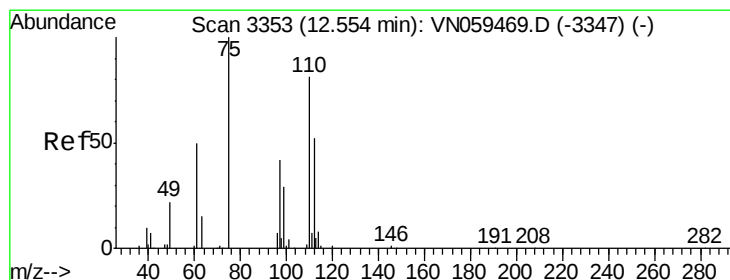
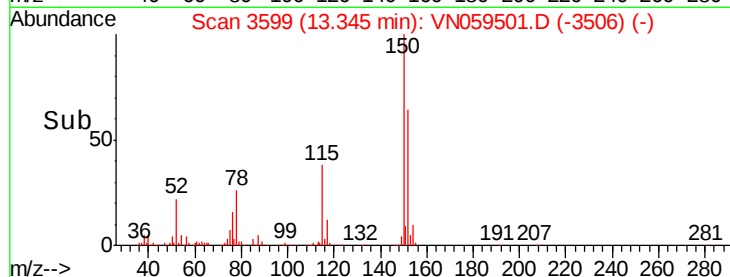
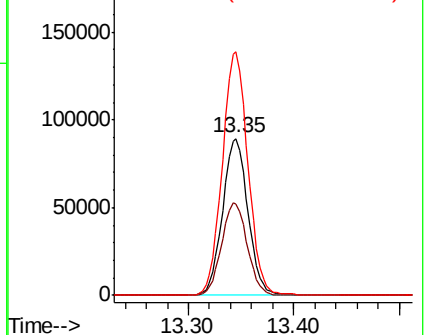
150 156.3 0.0 352.8



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: 24.303 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN059501.D

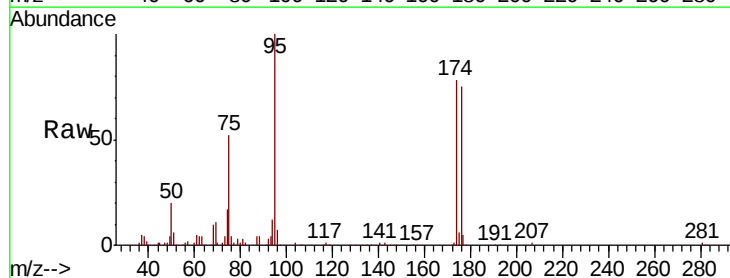
Acq: 5 Dec 2019 16:06

Tgt Ion: 75 Resp: 89984

Ion Ratio Lower Upper

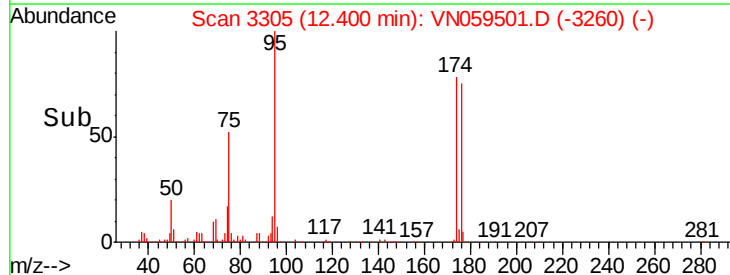
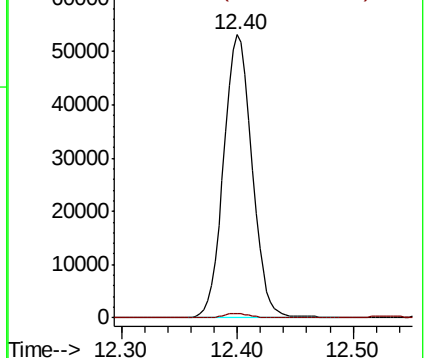
75 100

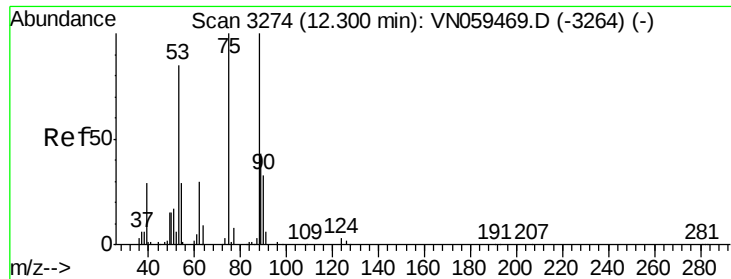
77 1.3 0.0 0.0#



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: 63.781 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN059501.D

Acq: 5 Dec 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

IBLK

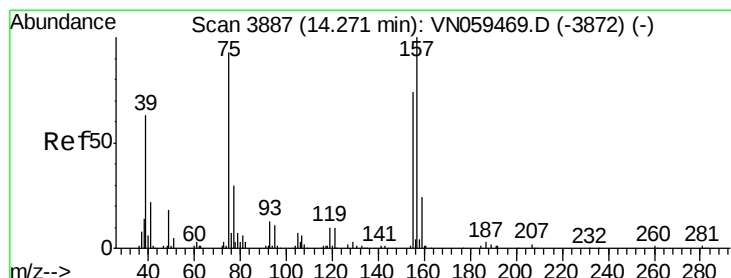
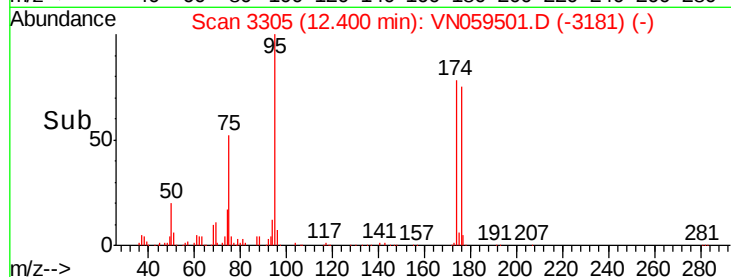
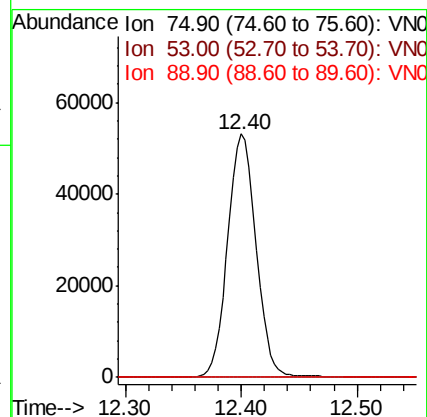
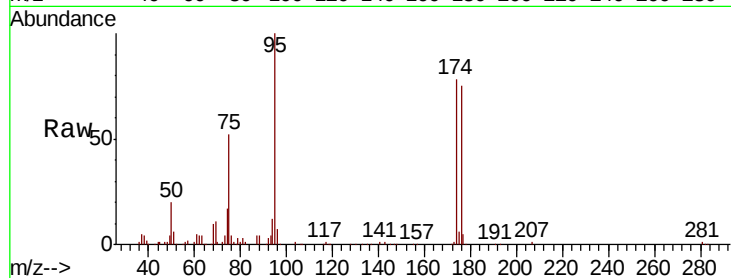
Tot Ion: 75 Resp: 89984

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.2 52.8#



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.588 ug/l

RT: 14.27 min Scan# 3886

Delta R.T. -0.00 min

Lab File: VN059501.D

Acq: 5 Dec 2019 16:06

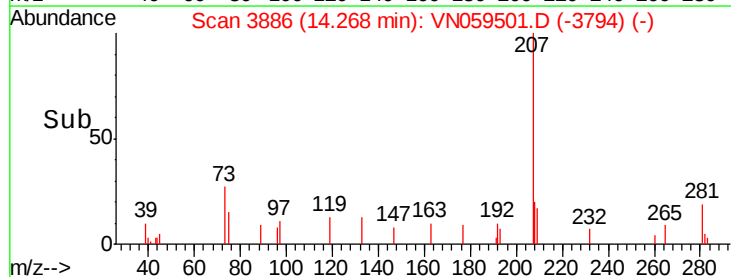
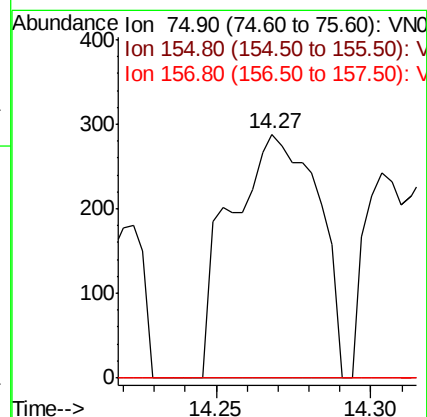
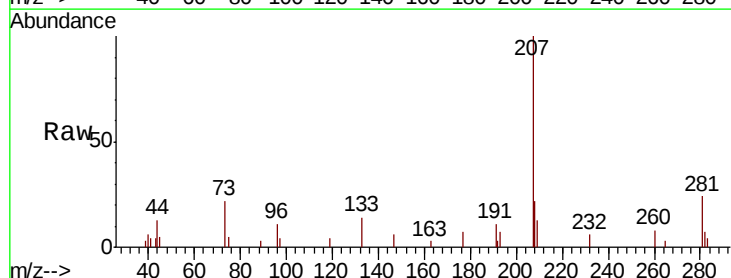
Tgt Ion: 75 Resp: 567

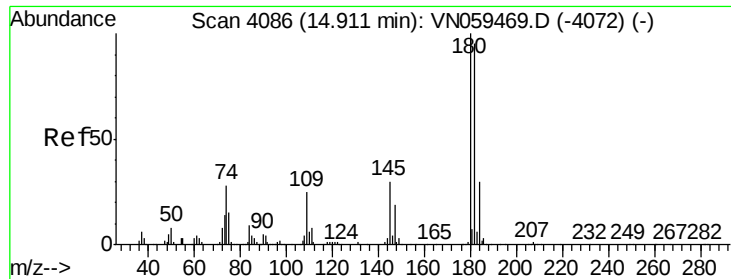
Ion Ratio Lower Upper

75 100

155 0.0 40.6 122.0#

157 0.0 52.9 158.7#

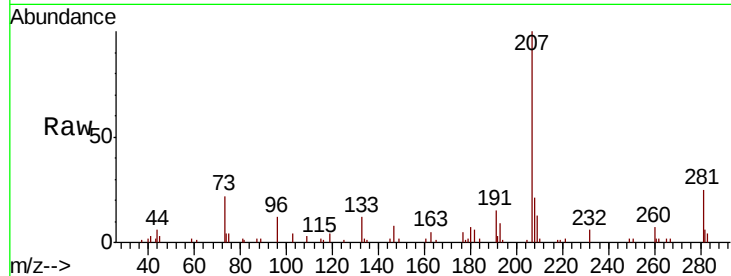




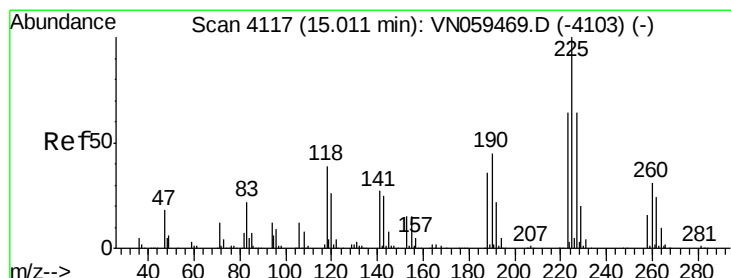
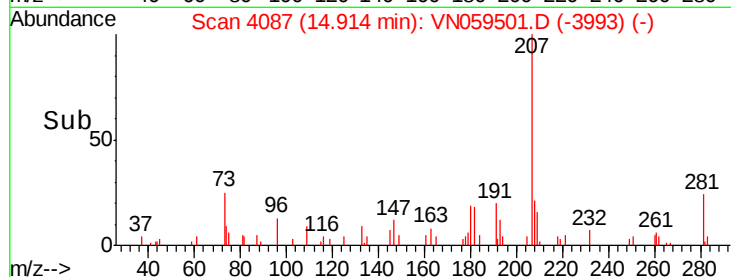
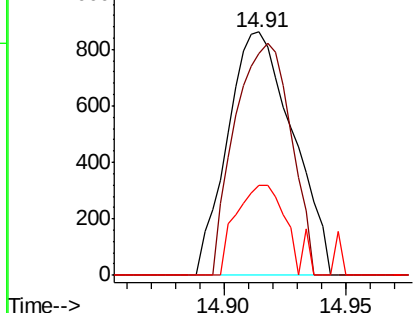
#93
 1,2,4-Trichlorobenzene
 Concen: 0.519 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN059501.D
 Acq: 5 Dec 2019 16:06

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Tot Ion:180 Resp: 1598
 Ion Ratio Lower Upper
 180 100
 182 82.0 48.0 144.2
 145 29.0 15.2 45.6

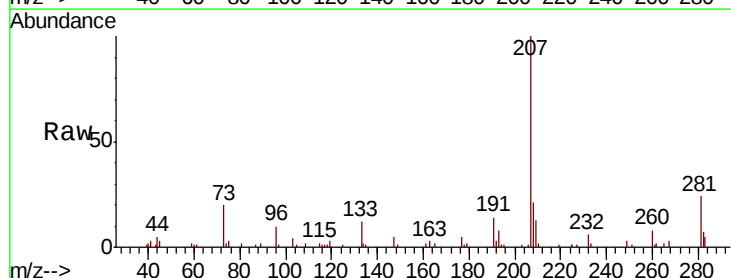


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

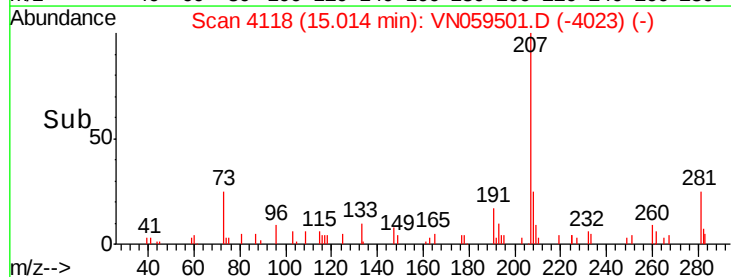
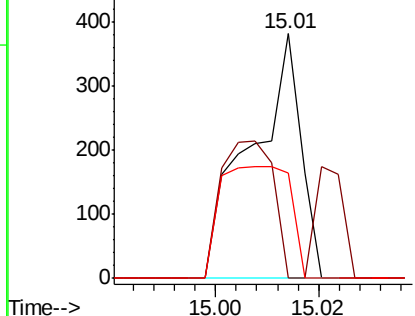


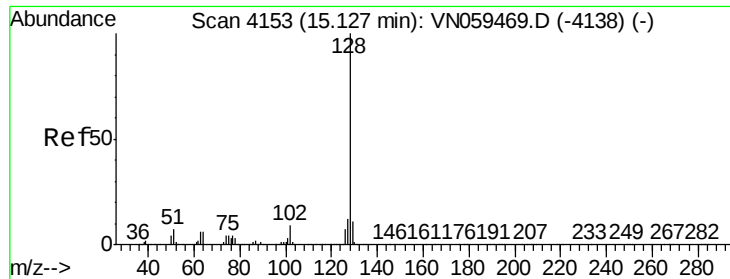
#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.01 min Scan# 4118
 Delta R.T. 0.00 min
 Lab File: VN059501.D
 Acq: 5 Dec 2019 16:06

Tgt Ion:225 Resp: 255
 Ion Ratio Lower Upper
 225 100
 223 58.4 31.9 95.5
 227 63.9 32.0 96.2



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: 3.346 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN059501.D

Acq: 5 Dec 2019 16:06

Instrument :

MSVOA_N

ClientSampleId :

IBLK

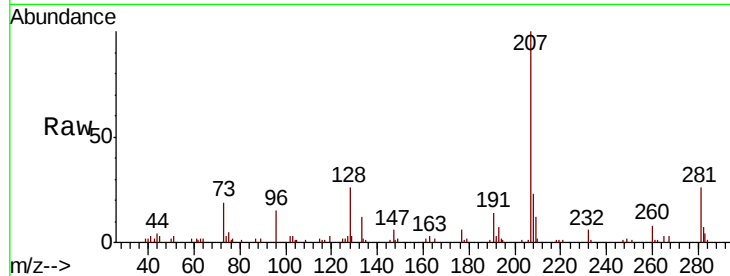
Tot Ion:128 Resp: 8195

Ion Ratio Lower Upper

128 100

127 11.8 10.2 15.4

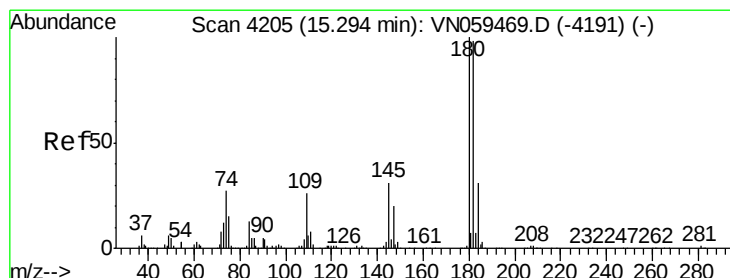
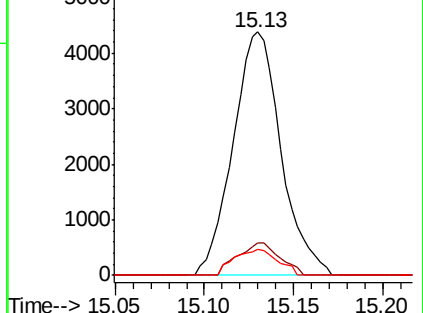
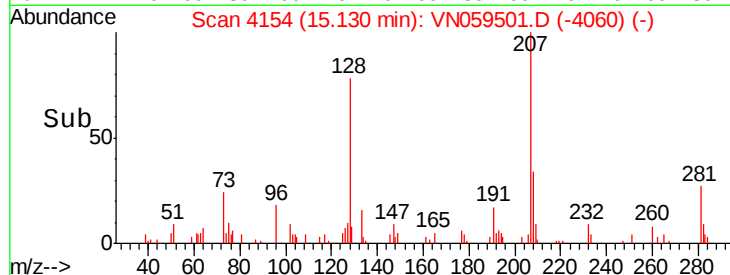
129 9.5 8.8 13.2



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: 2.638 ug/l

RT: 15.29 min Scan# 4204

Delta R.T. -0.00 min

Lab File: VN059501.D

Acq: 5 Dec 2019 16:06

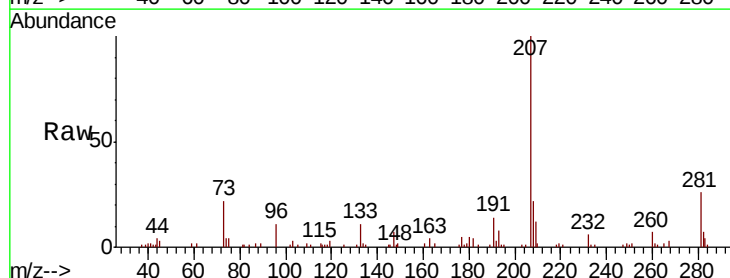
Tgt Ion:180 Resp: 2166

Ion Ratio Lower Upper

180 100

182 0.0 48.5 145.5#

145 11.8 16.1 48.2#



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

