

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN111919\
 Data File : VN059307.D
 Acq On : 19 Nov 2019 15:29
 Operator : JC/SP
 Sample : IBLK
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 20 00:48:14 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	365677	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	563541	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	480797	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	167919	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	215199	47.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.74%	
35) Dibromofluoromethane	7.57	113	169272	50.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.62%	
50) Toluene-d8	10.08	98	671678	50.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.36%	
62) 4-Bromofluorobenzene	12.40	95	212397	44.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.88%	

Target Compounds

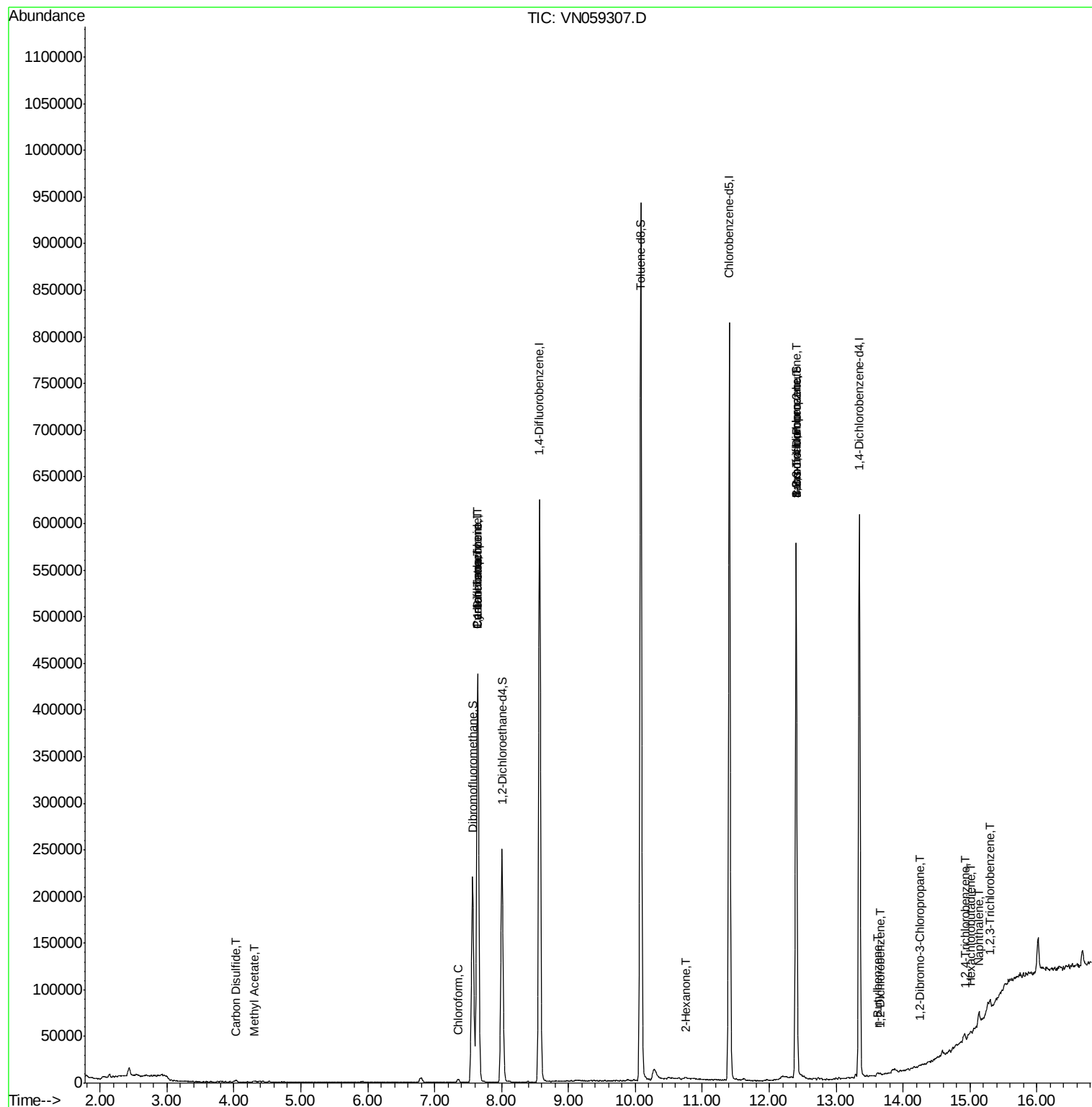
					Qvalue	
17) Carbon Disulfide	4.03	76	3640	0.344	ug/l #	89
18) Methyl Acetate	4.31	43	1263	0.228	ug/l #	53
30) Chloroform	7.35	83	3907	0.551	ug/l	89
31) Cyclohexane	7.64	56	7338	1.049	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	27434	5.208	ug/l #	49
38) Carbon Tetrachloride	7.64	117	34784	6.635	ug/l #	17
59) 2-Hexanone	10.75	43	1492	0.368	ug/l	73
71) Bromoform	12.40	173	930	0.340	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	103035	26.952	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	103035	71.187	ug/l #	13
89) n-Butylbenzene	13.62	91	2006	0.223	ug/l	84
91) 1,2-Dichlorobenzene	13.65	146	1035	0.200	ug/l	89
92) 1,2-Dibromo-3-Chloropropan	14.26	75	212	0.282	ug/l #	3
93) 1,2,4-Trichlorobenzene	14.92	180	2213	3.709	ug/l	88
94) Hexachlorobutadiene	15.01	225	501	0.281	ug/l	86
95) Naphthalene	15.13	128	9373	4.056	ug/l	96
96) 1,2,3-Trichlorobenzene	15.30	180	3094	1.068	ug/l	86

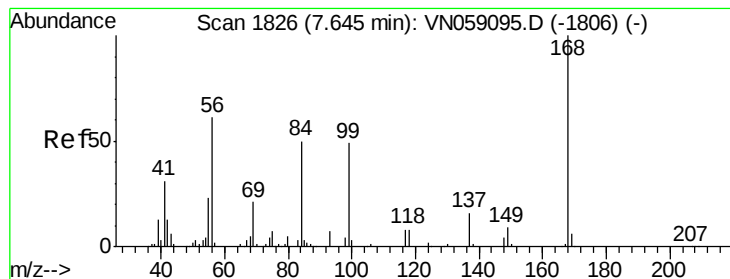
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Nov 07 04:00:41 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN059307.D

Acq: 19 Nov 2019 15:29

Instrument :

MSVOA_N

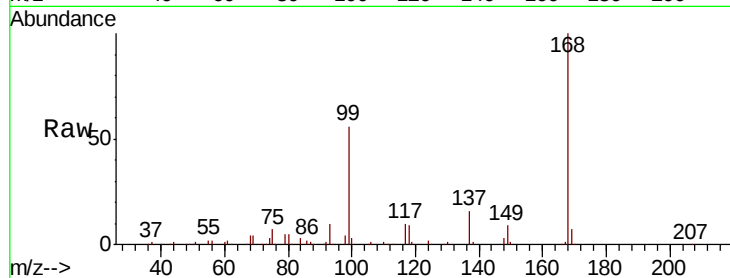
ClientSampled :

Tot Ion:168 Resp: 365677

Ion Ratio Lower Upper

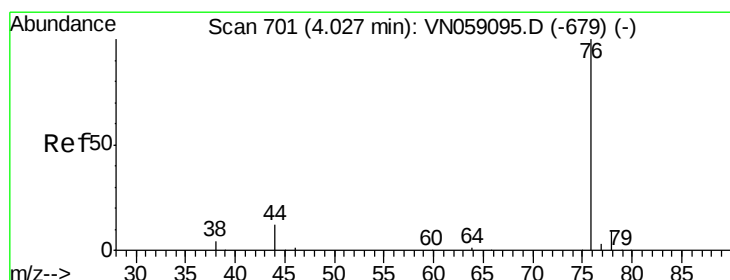
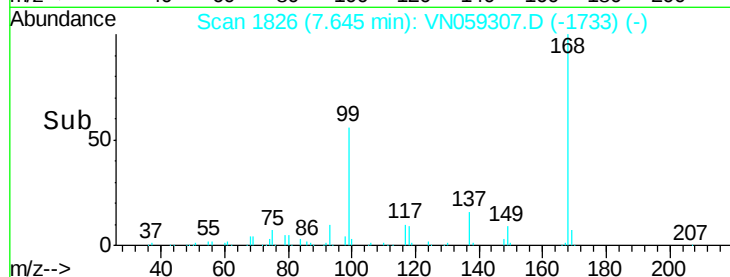
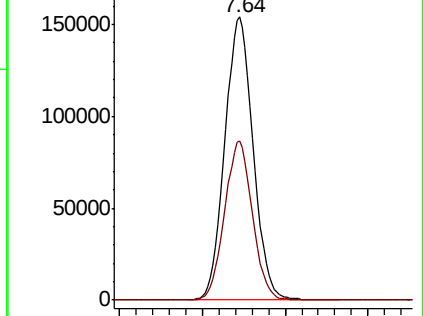
168 100

99 56.4 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#17

Carbon Disulfide

Concen: 0.344 ug/l

RT: 4.03 min Scan# 701

Delta R.T. 0.00 min

Lab File: VN059307.D

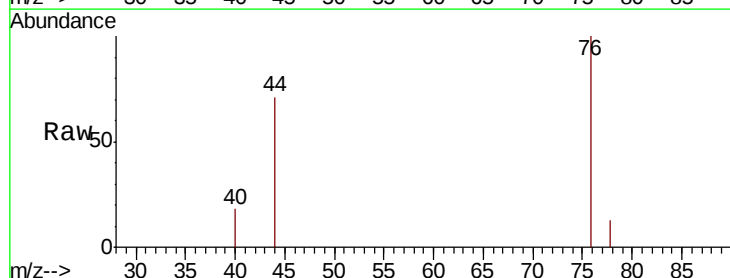
Acq: 19 Nov 2019 15:29

Tgt Ion: 76 Resp: 3640

Ion Ratio Lower Upper

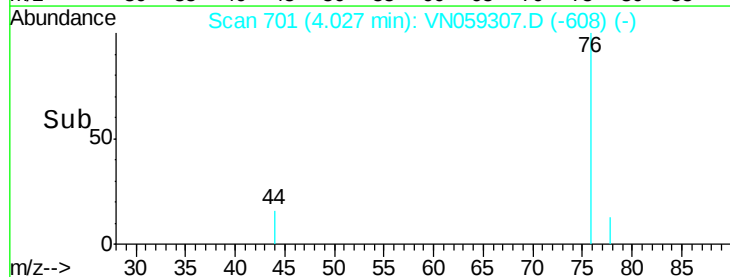
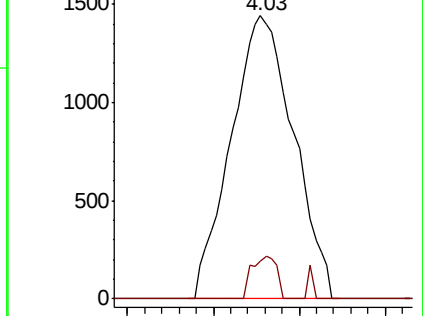
76 100

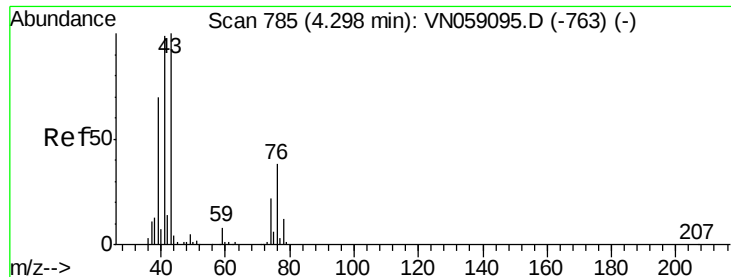
78 13.2 7.4 11.0#



Abundance Ion 75.90 (75.60 to 76.60): VNO

Ion 77.90 (77.60 to 78.60): VNO

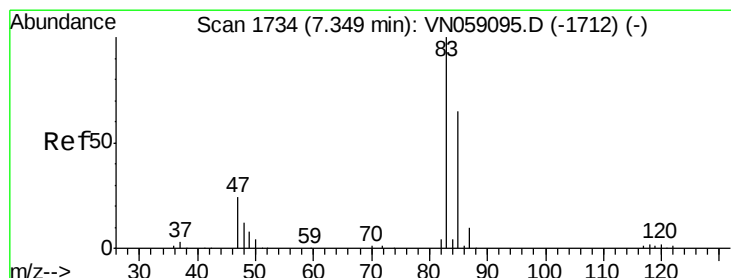
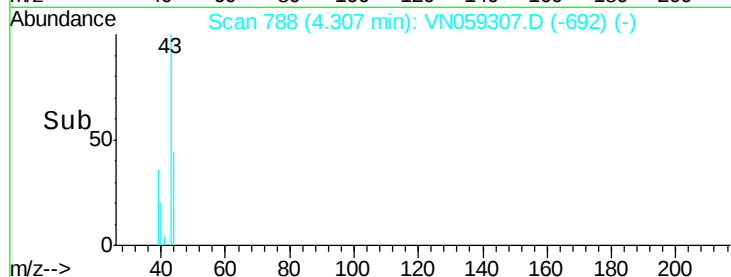
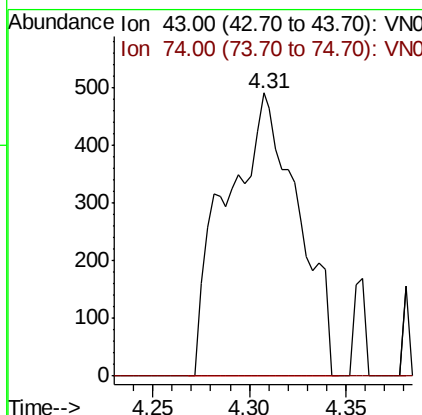
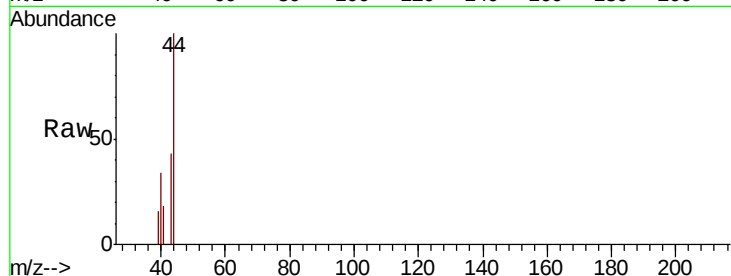




#18
Methyl Acetate
Concen: 0.228 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.01 min
Lab File: VN059307.D
Acq: 19 Nov 2019 15:29

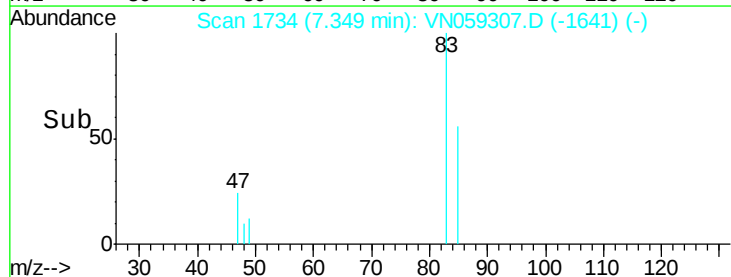
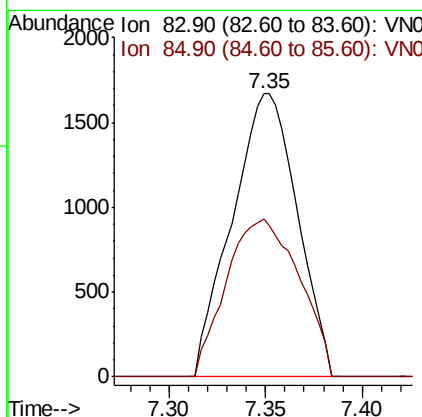
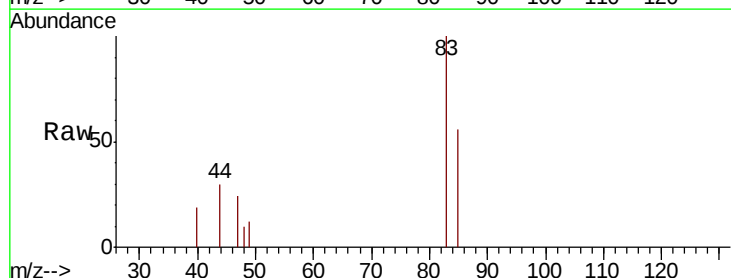
Instrument :
MSVOA_N
ClientSampled :

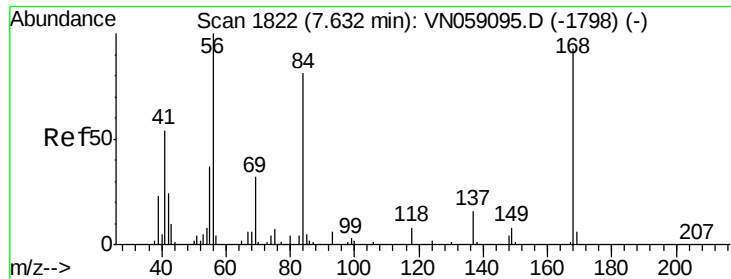
Tot Ion: 43 Resp: 1263
Ion Ratio Lower Upper
43 100
74 0.0 17.8 26.8#



#30
Chloroform
Concen: 0.551 ug/l
RT: 7.35 min Scan# 1734
Delta R.T. 0.00 min
Lab File: VN059307.D
Acq: 19 Nov 2019 15:29

Tgt Ion: 83 Resp: 3907
Ion Ratio Lower Upper
83 100
85 55.8 51.8 77.8

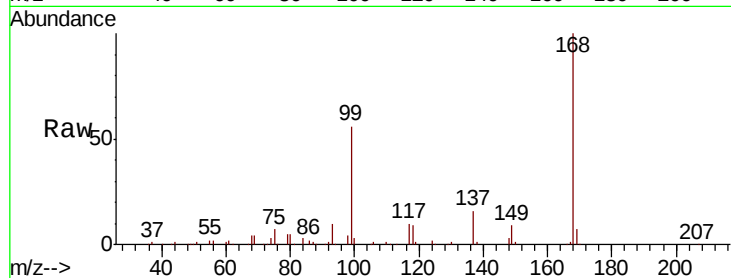




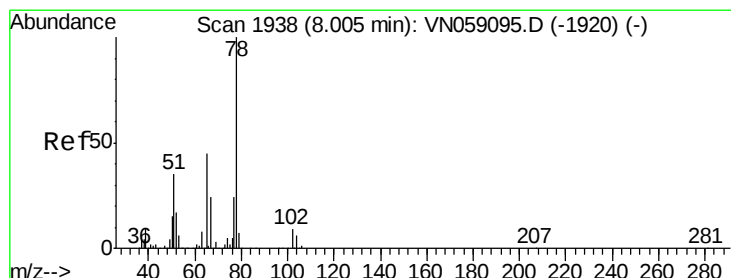
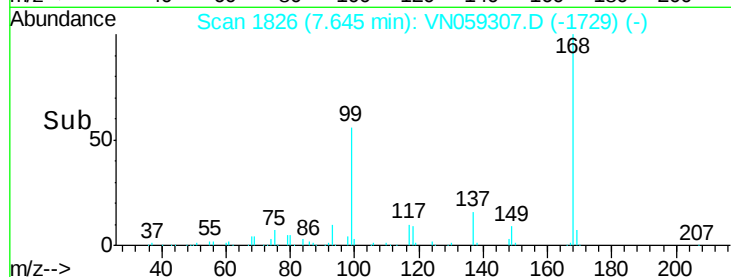
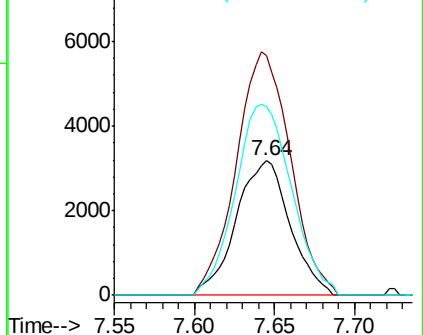
#31
Cyclohexane
Concen: 1.049 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN059307.D
Acq: 19 Nov 2019 15:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 56 Resp: 7338
Ion Ratio Lower Upper
56 100
69 178.0 25.8 38.8#
84 139.9 65.0 97.4#

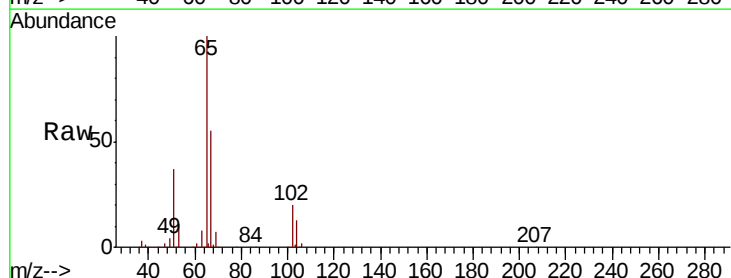


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

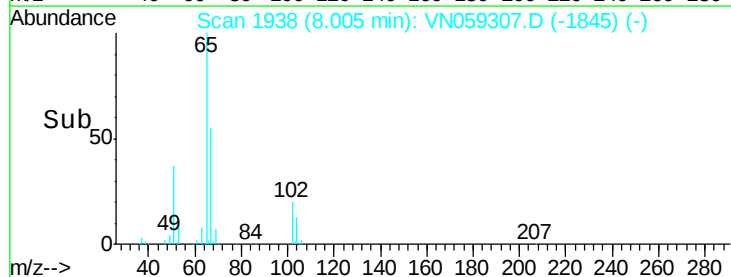
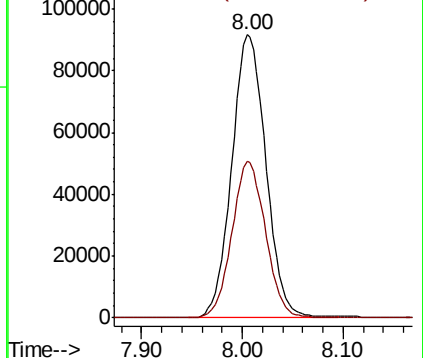


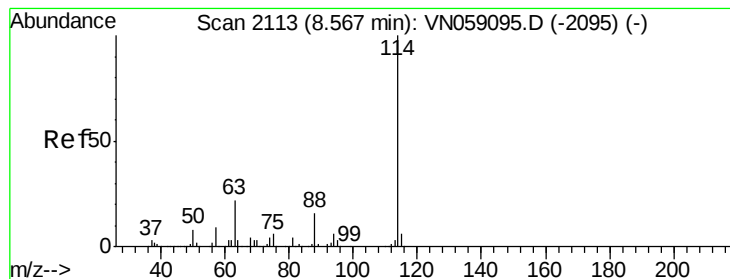
#33
1,2-Dichloroethane-d4
Concen: 47.874 ug/l
RT: 8.00 min Scan# 1938
Delta R.T. 0.00 min
Lab File: VN059307.D
Acq: 19 Nov 2019 15:29

Tgt Ion: 65 Resp: 215199
Ion Ratio Lower Upper
65 100
67 54.3 0.0 107.4



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





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. 0.00 min

Lab File: VN059307.D

Acq: 19 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

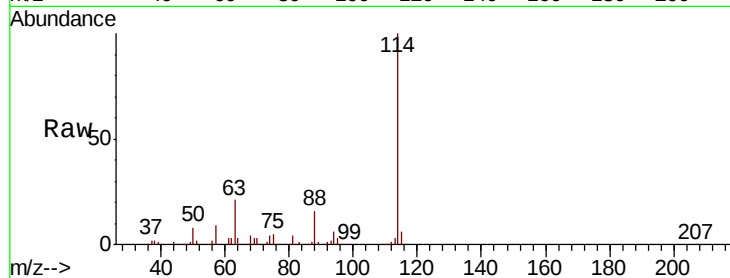
Tot Ion:114 Resp: 563541

Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.4

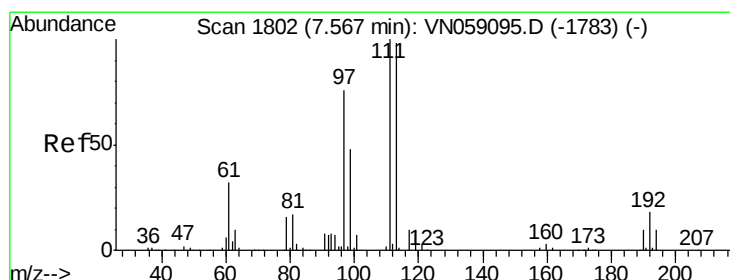
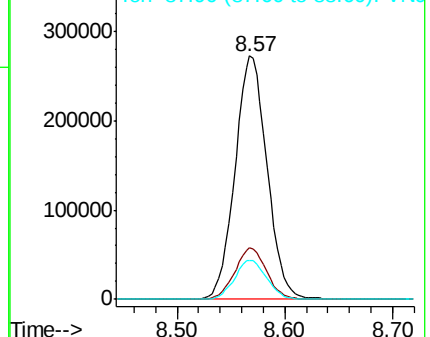
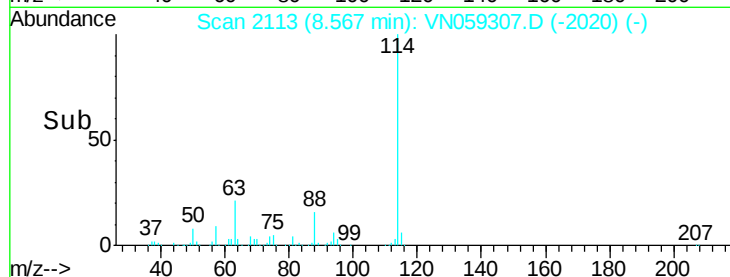
88 16.1 0.0 32.2



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: 50.305 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN059307.D

Acq: 19 Nov 2019 15:29

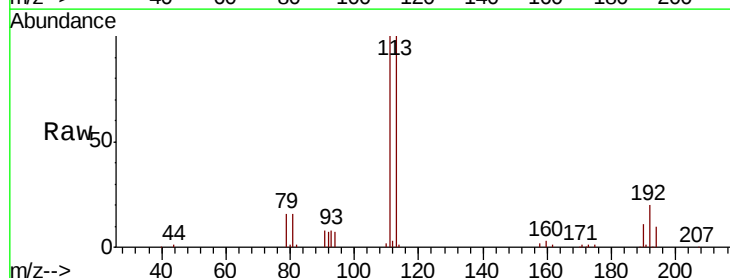
Tgt Ion:113 Resp: 169272

Ion Ratio Lower Upper

113 100

111 102.9 82.8 124.2

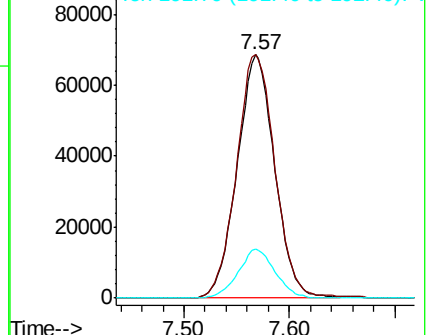
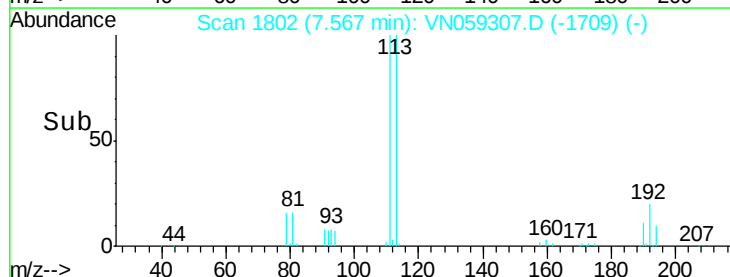
192 19.9 16.1 24.1

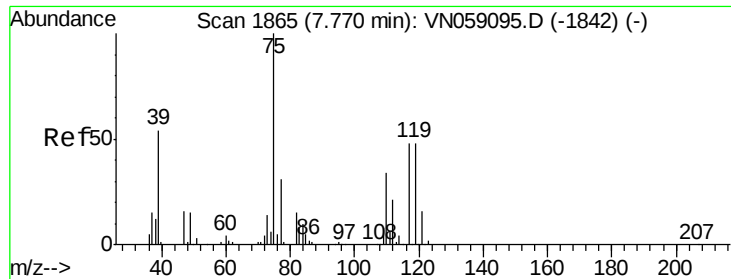


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

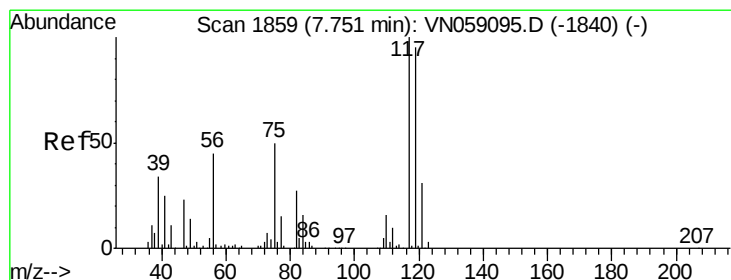
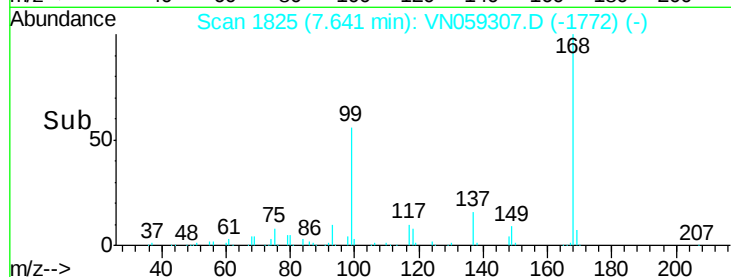
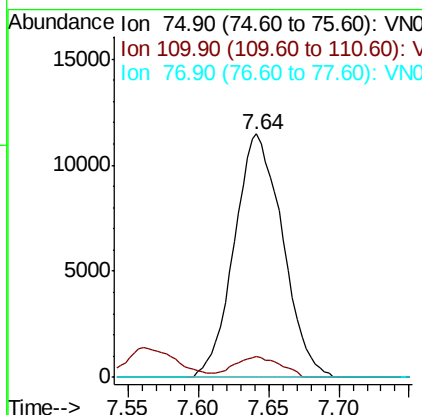
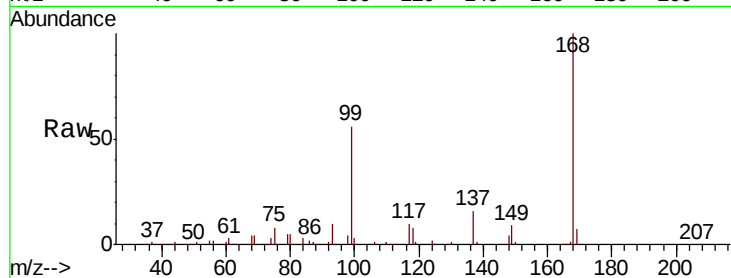




#36
 1,1-Dichloropropene
 Concen: 5.208 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN059307.D
 Acq: 19 Nov 2019 15:29

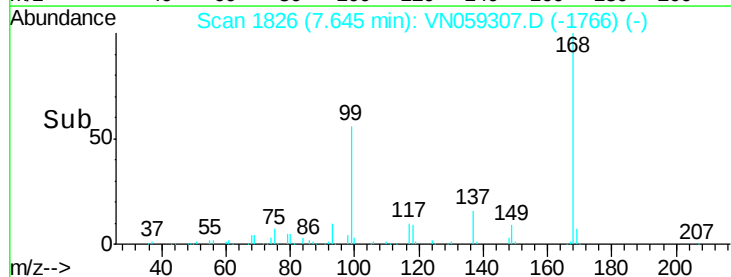
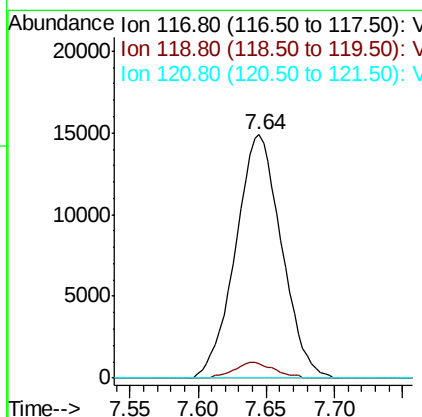
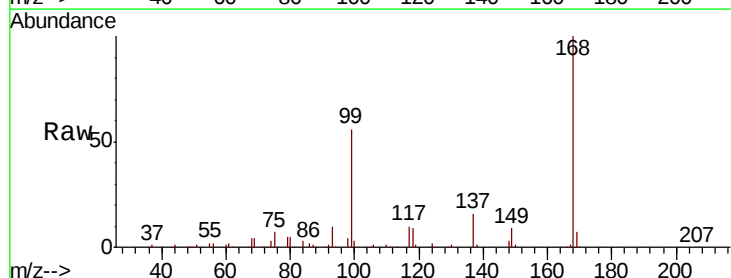
Instrument :
 MSVOA_N
 ClientSampled :

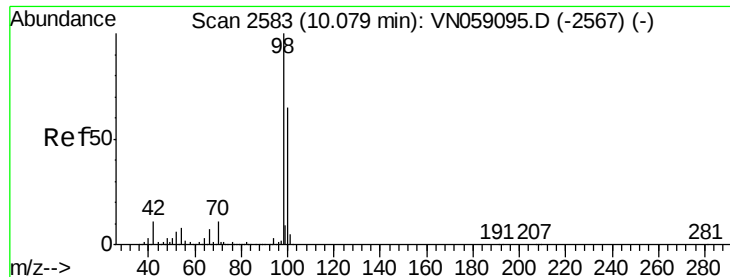
Tot Ion	75	Resp	27434
Ion Ratio	Lower	Upper	
75	100		
110	8.2	17.1	51.2#
77	0.0	24.8	37.2#



#38
 Carbon Tetrachloride
 Concen: 6.635 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN059307.D
 Acq: 19 Nov 2019 15:29

Tgt Ion	117	Resp	34784
Ion Ratio	Lower	Upper	
117	100		
119	5.9	75.6	113.4#
121	0.0	24.6	36.8#





#50

Toluene-d8

Concen: 50.677 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN059307.D

Acq: 19 Nov 2019 15:29

Instrument :

MSVOA_N

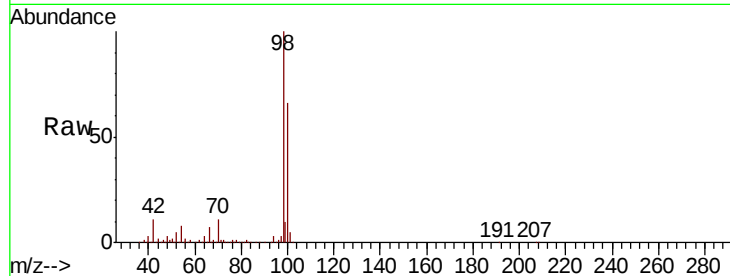
ClientSampled :

Tot Ion: 98 Resp: 671678

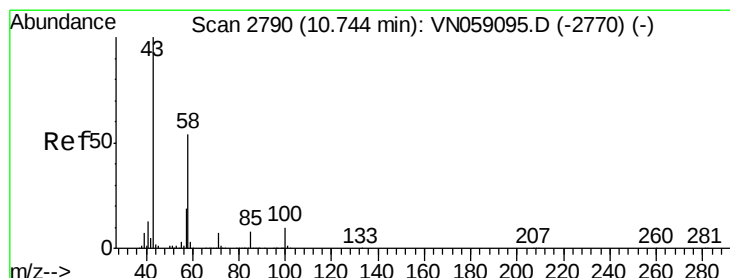
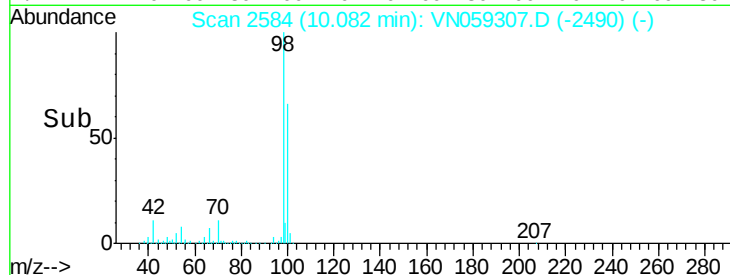
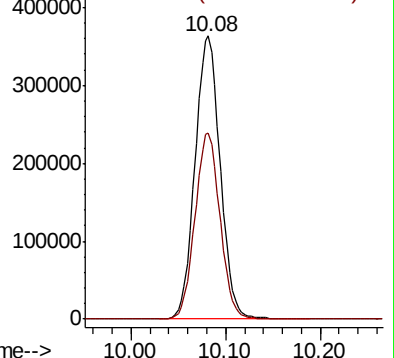
Ion Ratio Lower Upper

98 100

100 65.4 52.2 78.2



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



#59

2-Hexanone

Concen: 0.368 ug/l

RT: 10.75 min Scan# 2792

Delta R.T. 0.01 min

Lab File: VN059307.D

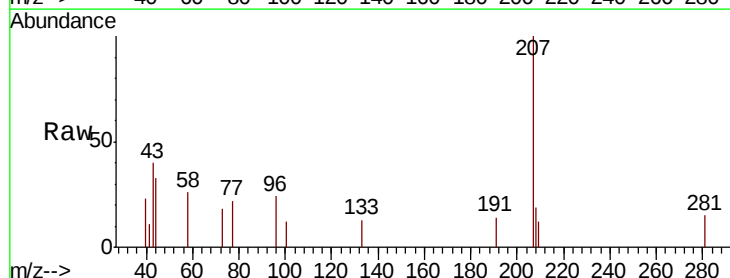
Acq: 19 Nov 2019 15:29

Tgt Ion: 43 Resp: 1492

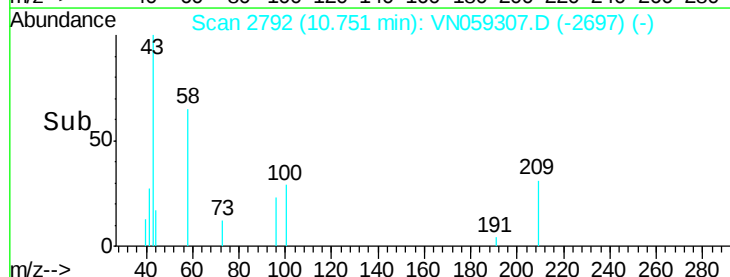
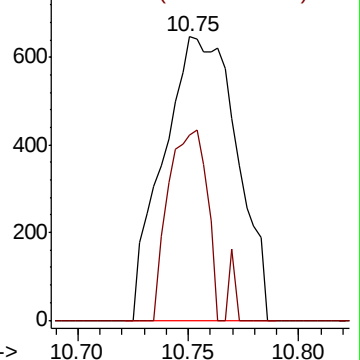
Ion Ratio Lower Upper

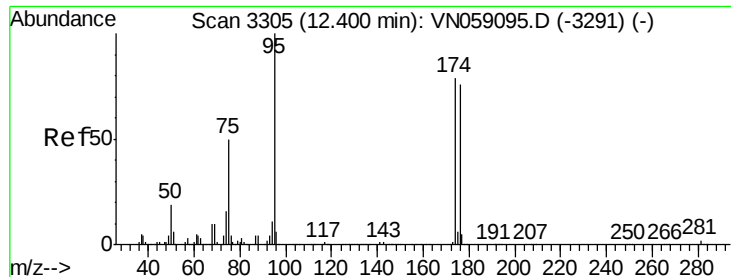
43 100

58 35.4 27.3 81.8



Abundance Ion 43.00 (42.70 to 43.70): VN059095.D (-2770) (-)

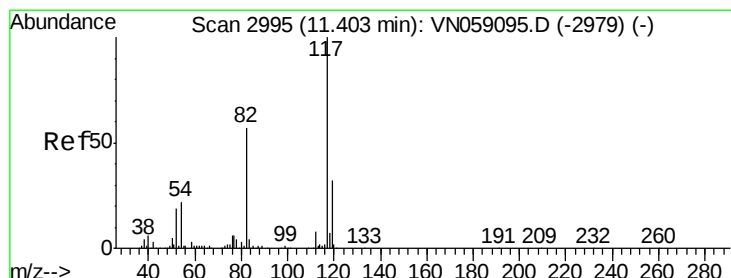
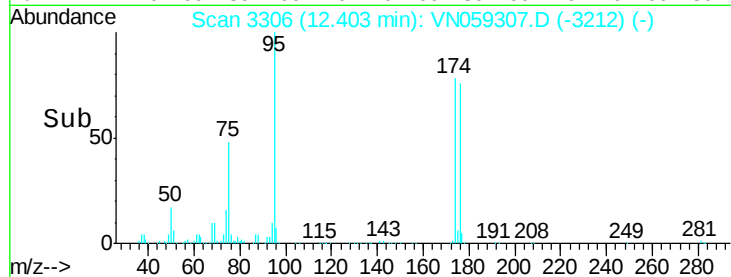
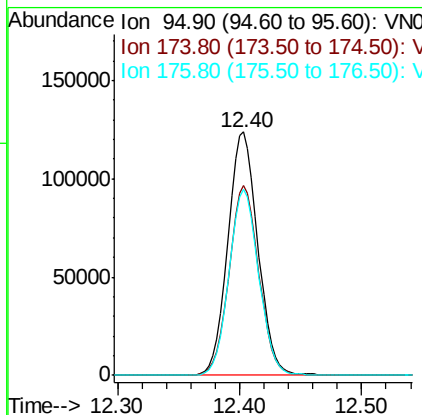
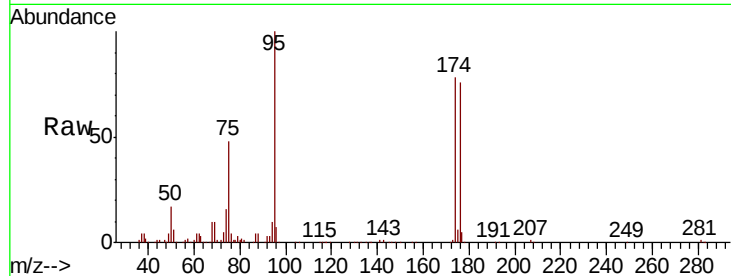




#62
4-Bromofluorobenzene
Concen: 44.445 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN059307.D
Acq: 19 Nov 2019 15:29

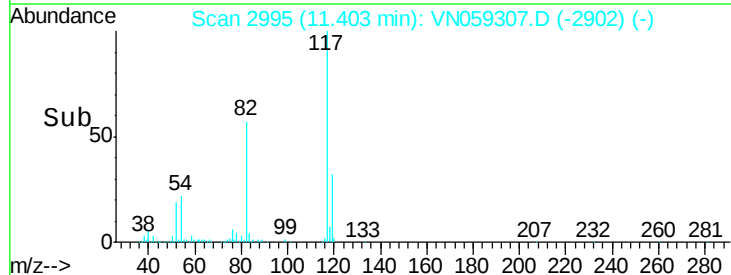
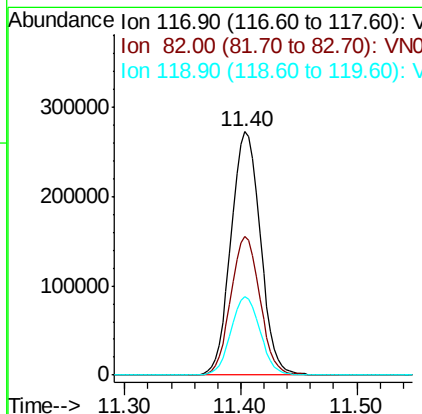
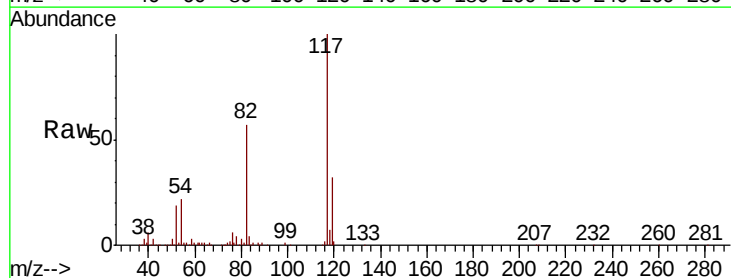
Instrument :
MSVOA_N
ClientSampleId :

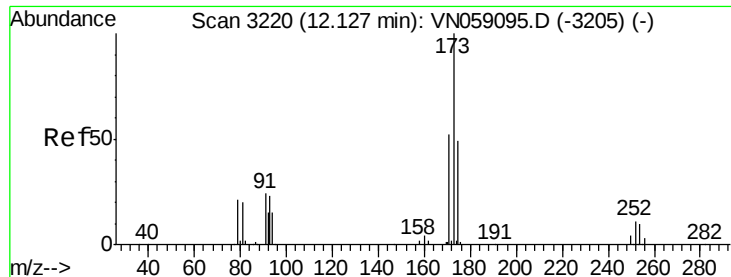
Tot Ion	Ratio	Lower	Upper
95	100		
174	77.2	0.0	158.2
176	75.8	0.0	151.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2995
Delta R.T. 0.00 min
Lab File: VN059307.D
Acq: 19 Nov 2019 15:29

Tgt Ion	Ratio	Lower	Upper
117	100		
82	57.2	45.8	68.8
119	32.3	25.8	38.6

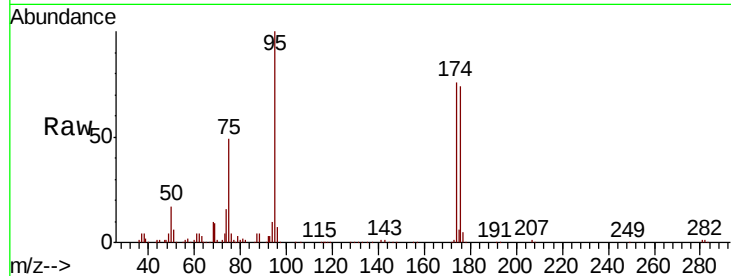




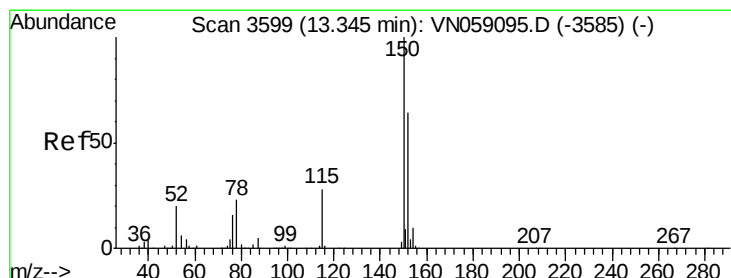
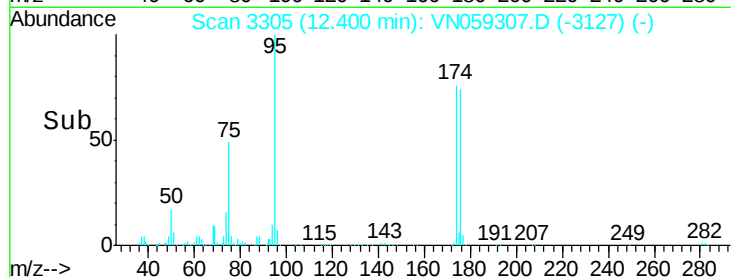
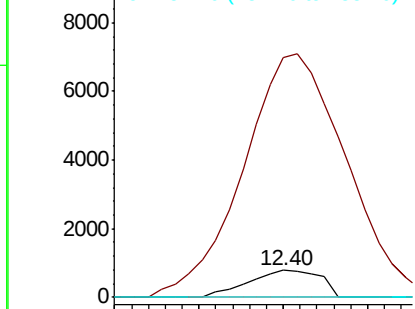
#71
Bromoform
Concen: 0.340 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN059307.D
Acq: 19 Nov 2019 15:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 930
Ion Ratio Lower Upper
173 100
175 1090.1 24.2 72.6#
254 0.0 0.1 0.1#

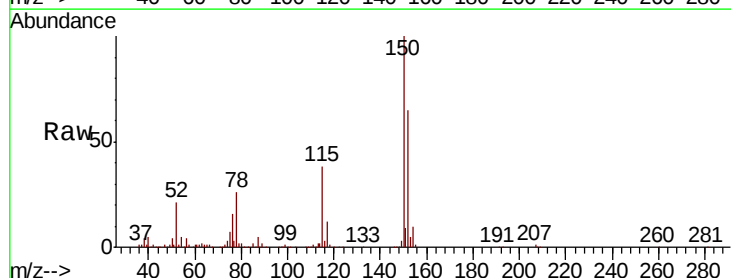


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

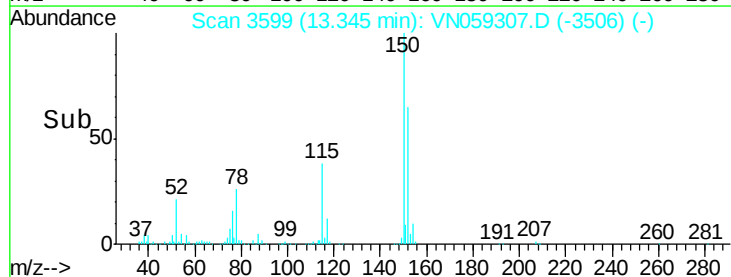
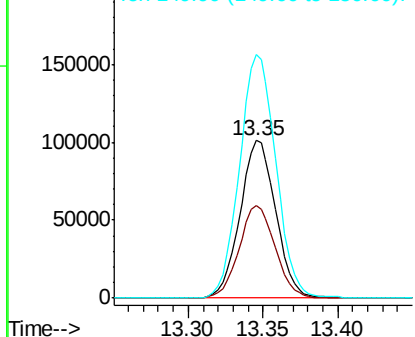


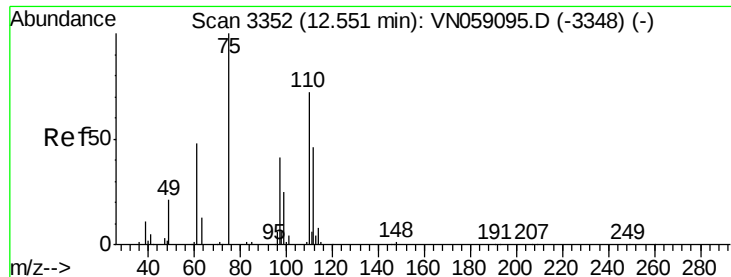
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN059307.D
Acq: 19 Nov 2019 15:29

Tgt Ion:152 Resp: 167919
Ion Ratio Lower Upper
152 100
115 59.3 29.4 88.2
150 157.7 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: 26.952 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN059307.D

Acq: 19 Nov 2019 15:29

Instrument :

MSVOA_N

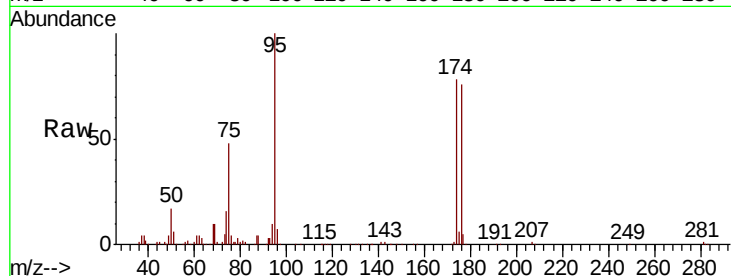
ClientSampleId :

Tot Ion: 75 Resp: 103035

Ion Ratio Lower Upper

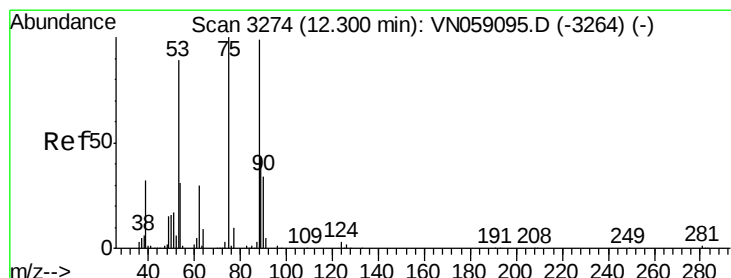
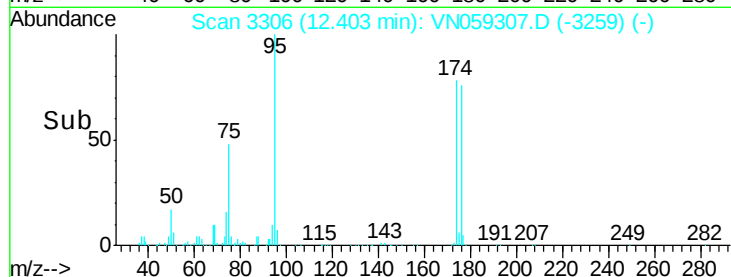
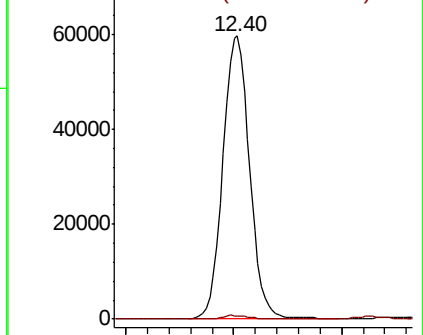
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO



#81

trans-1,4-Dichloro-2-butene

Concen: 71.187 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN059307.D

Acq: 19 Nov 2019 15:29

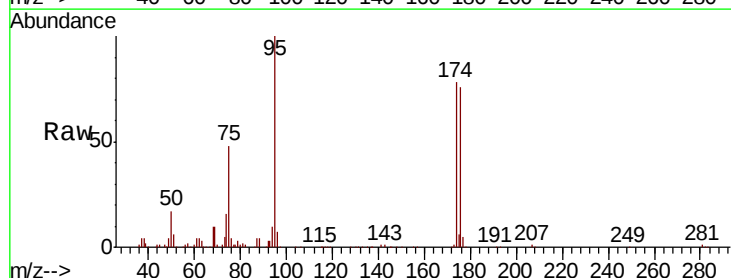
Tgt Ion: 75 Resp: 103035

Ion Ratio Lower Upper

75 100

53 0.0 72.2 108.2#

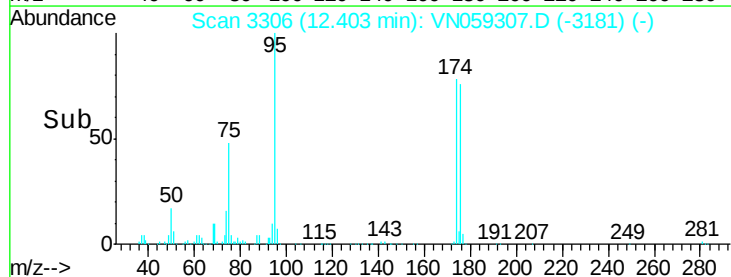
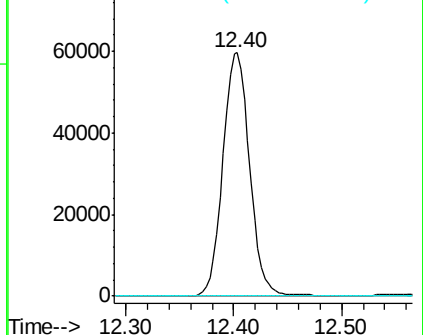
89 0.0 35.8 53.8#

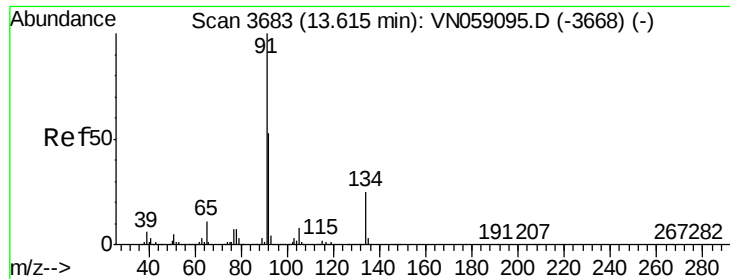


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#89

n-Butylbenzene

Concen: 0.223 ug/l

RT: 13.62 min Scan# 3684

Delta R.T. 0.00 min

Lab File: VN059307.D

Acq: 19 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

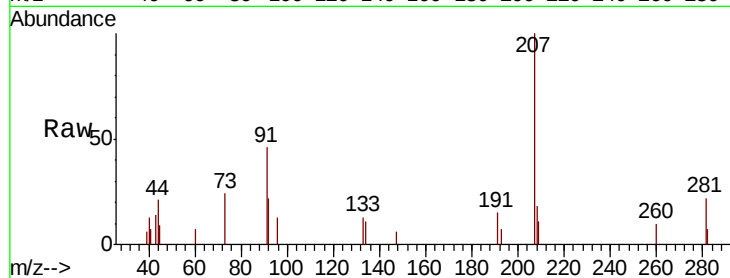
Tot Ion: 91 Resp: 2006

Ion Ratio Lower Upper

91 100

92 43.5 26.1 78.3

134 13.7 12.6 37.8

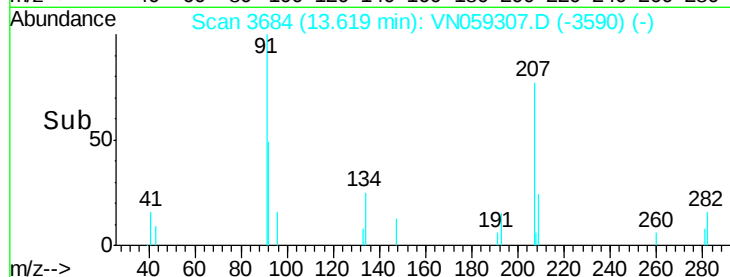


Abundance Ion 91.00 (90.70 to 91.70): VN059095.D (-3668) (-)

Ion 92.00 (91.70 to 92.70): VN059095.D (-3668) (-)

Ion 134.00 (133.70 to 134.70): VN059095.D (-3668) (-)

Time-->

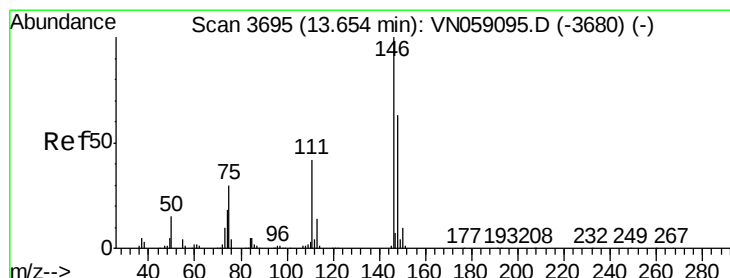


Abundance Ion 91.00 (90.70 to 91.70): VN059307.D (-3590) (-)

Ion 92.00 (91.70 to 92.70): VN059307.D (-3590) (-)

Ion 134.00 (133.70 to 134.70): VN059307.D (-3590) (-)

Time-->



#91

1,2-Dichlorobenzene

Concen: 0.200 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN059307.D

Acq: 19 Nov 2019 15:29

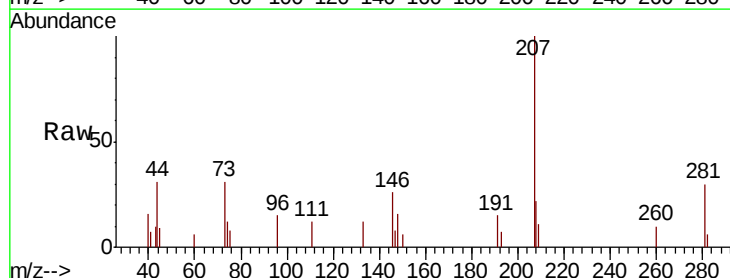
Tgt Ion: 146 Resp: 1035

Ion Ratio Lower Upper

146 100

111 44.0 21.2 63.6

148 76.7 31.6 94.7

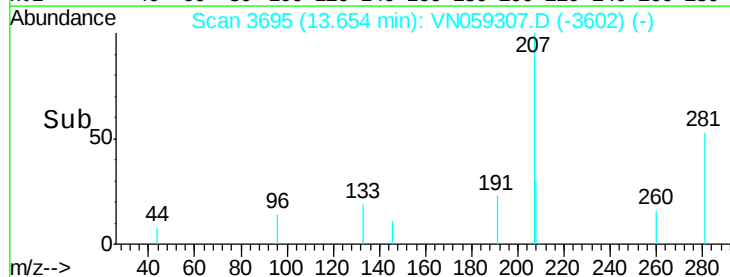


Abundance Ion 145.90 (145.60 to 146.60): VN059095.D (-3680) (-)

Ion 110.90 (110.60 to 111.60): VN059095.D (-3680) (-)

Ion 147.90 (147.60 to 148.60): VN059095.D (-3680) (-)

Time-->

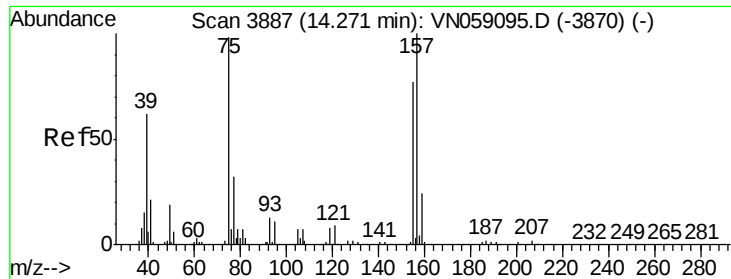


Abundance Ion 145.90 (145.60 to 146.60): VN059307.D (-3602) (-)

Ion 110.90 (110.60 to 111.60): VN059307.D (-3602) (-)

Ion 147.90 (147.60 to 148.60): VN059307.D (-3602) (-)

Time-->



#92

1,2-Dibromo-3-Chloropropane

Concen: 0.282 ug/l

RT: 14.26 min Scan# 3882

Delta R.T. -0.02 min

Lab File: VN059307.D

Acq: 19 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

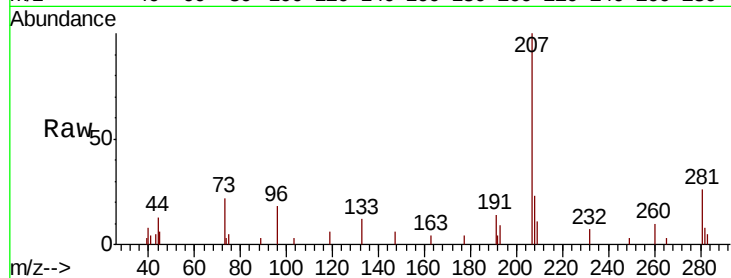
Tot Ion: 75 Resp: 212

Ion Ratio Lower Upper

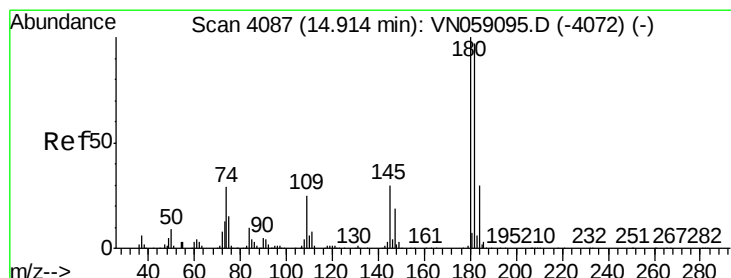
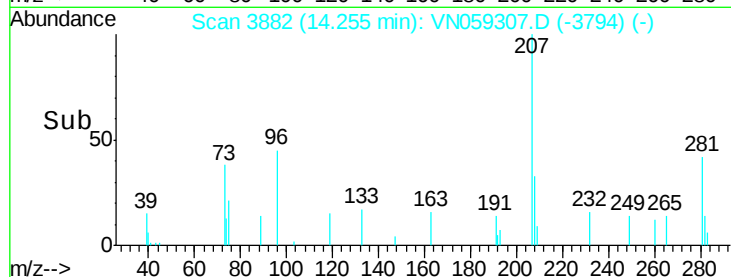
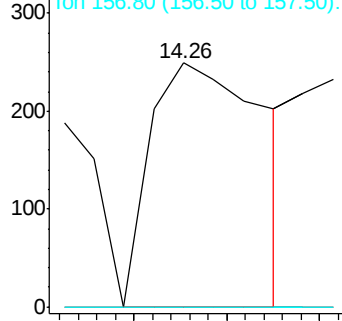
75 100

155 0.0 40.2 120.6#

157 0.0 51.8 155.5#



Abundance Ion 74.90 (74.60 to 75.60): VN059095.D (-3870) (-)



#93

1,2,4-Trichlorobenzene

Concen: 3.709 ug/l

RT: 14.92 min Scan# 4088

Delta R.T. 0.00 min

Lab File: VN059307.D

Acq: 19 Nov 2019 15:29

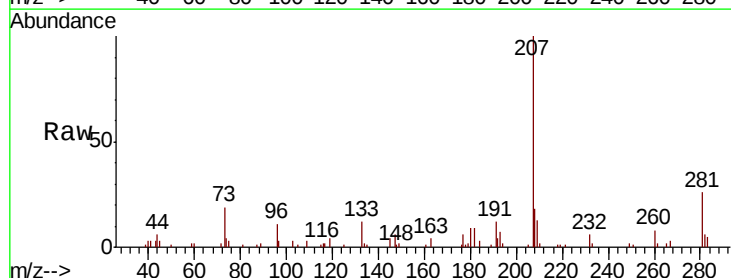
Tgt Ion:180 Resp: 2213

Ion Ratio Lower Upper

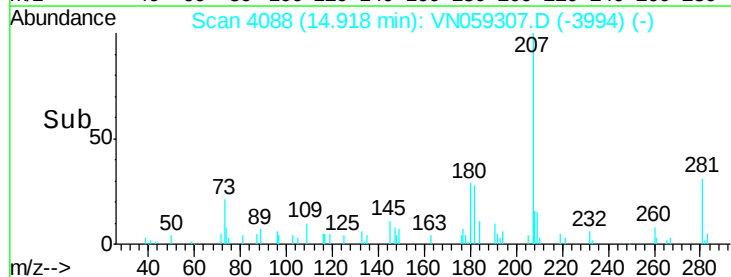
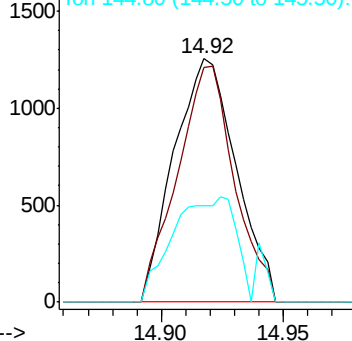
180 100

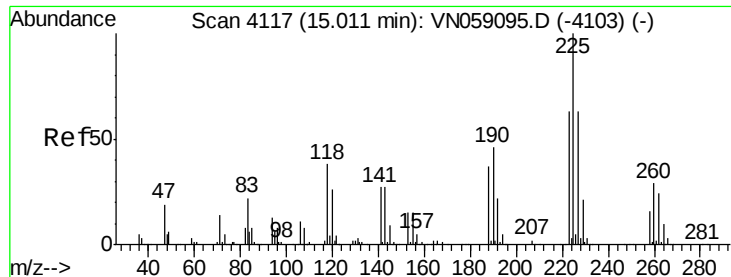
182 88.7 48.1 144.3

145 44.1 15.1 45.3



Abundance Ion 179.80 (179.50 to 180.50): VN059095.D (-4072) (-)





#94

Hexachlorobutadiene

Concen: 0.281 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN059307.D

Acq: 19 Nov 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

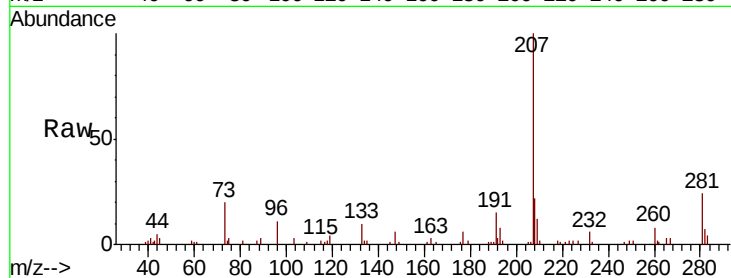
Tot Ion:225 Resp: 501

Ion Ratio Lower Upper

225 100

223 71.1 31.3 93.9

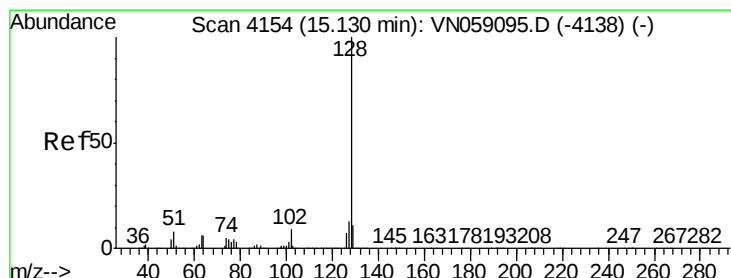
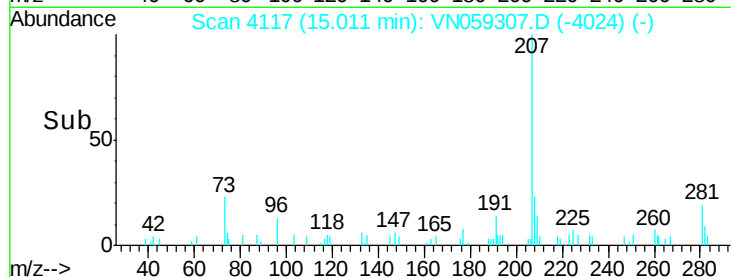
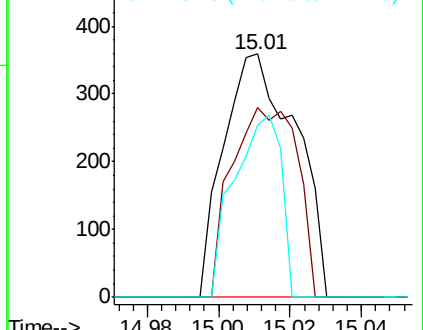
227 49.1 31.5 94.5



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: 4.056 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN059307.D

Acq: 19 Nov 2019 15:29

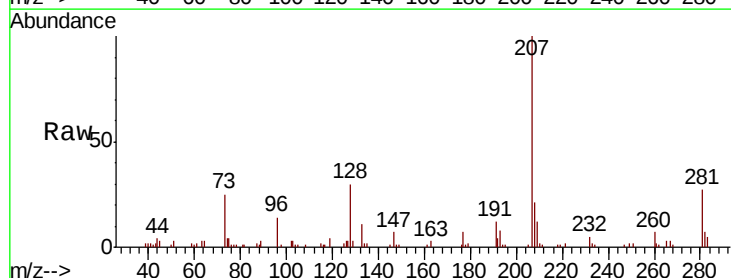
Tgt Ion:128 Resp: 9373

Ion Ratio Lower Upper

128 100

127 10.7 10.2 15.2

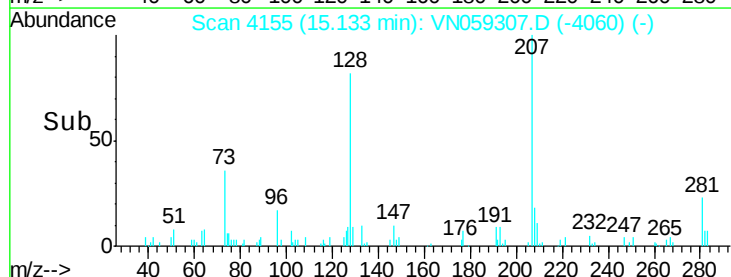
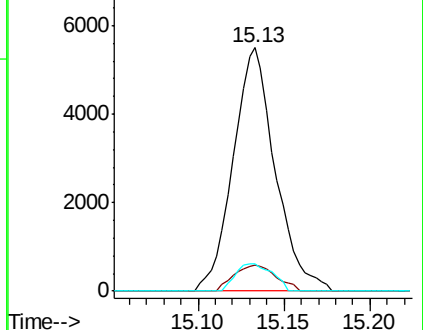
129 9.8 8.6 12.8

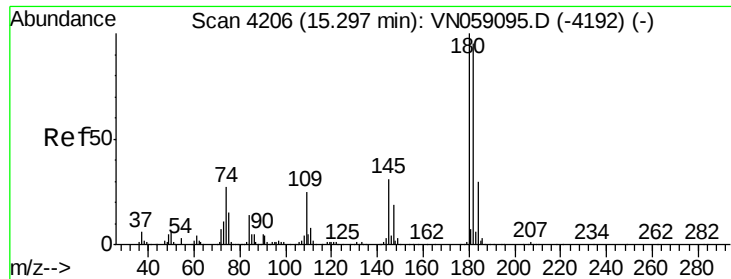


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

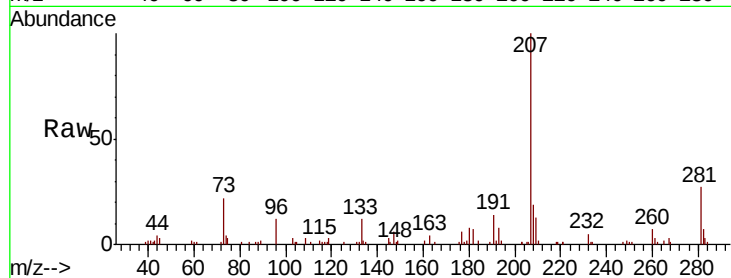




#96
 1,2,3-Trichlorobenzene
 Concen: 1.068 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. 0.00 min
 Lab File: VN059307.D
 Acq: 19 Nov 2019 15:29

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	80.6	47.3	141.8
145	39.3	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

