

Data File : VN058866.D
Acq On : 18 Oct 2019 18:17
Operator : JC/SP
Sample : K5452-06
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7806

Quant Time: Oct 21 08:01:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	384735	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	606653	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	541393	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	200380	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	308157	54.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.22%	
35) Dibromofluoromethane	7.57	113	219258	54.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	109.94%	
50) Toluene-d8	10.08	98	826513	53.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.76%	
62) 4-Bromofluorobenzene	12.40	95	262973	46.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.50%	

Target Compounds

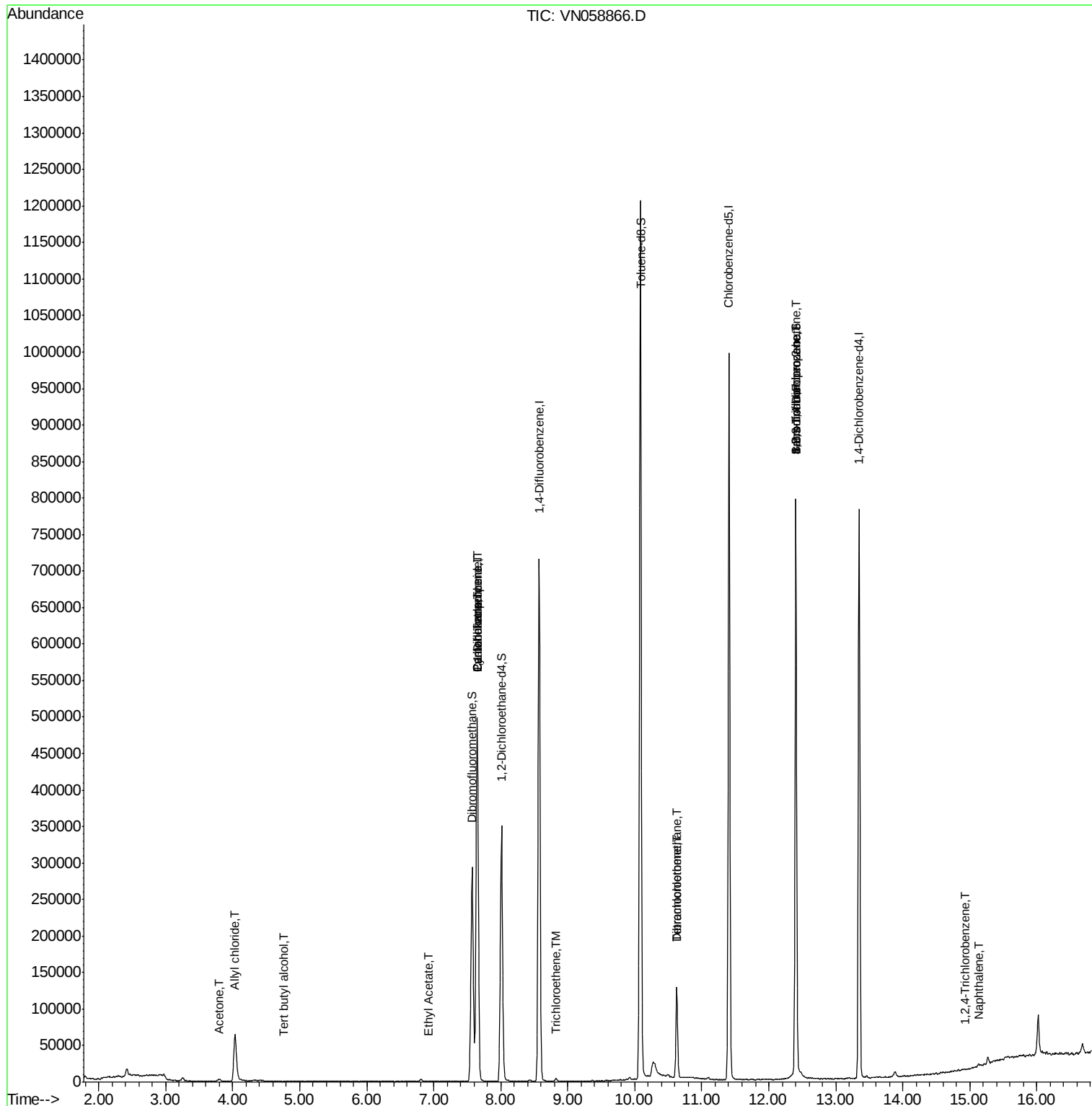
						Qvalue
11) Tert butyl alcohol	4.75	59	271	0.289	ug/l #	72
14) Allyl chloride	4.03	41	9500	1.238	ug/l #	78
16) Acetone	3.80	43	5778	2.072	ug/l	98
31) Cyclohexane	7.65	56	9119	1.125	ug/l #	11
36) 1,1-Dichloropropene	7.65	75	34125	5.494	ug/l #	51
37) Ethyl Acetate	6.92	43	2686	0.397	ug/l #	73
38) Carbon Tetrachloride	7.65	117	39212	6.128	ug/l #	17
44) Trichloroethene	8.82	130	1497	0.337	ug/l	90
60) Dibromochloromethane	10.63	129	25699	5.359	ug/l #	10
64) Tetrachloroethene	10.63	164	27522	7.259	ug/l	96
71) Bromoform	12.40	173	1683	0.522	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	141194	30.403	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	141194	79.203	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.92	180	91	2.542	ug/l #	13
95) Naphthalene	15.13	128	216	2.243	ug/l #	70

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

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

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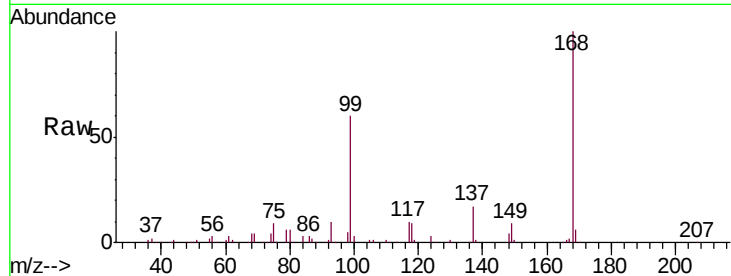
Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7806

Tgt Ion: 168 Resp: 384735

Ion Ratio Lower Upper

168 100

99 60.2 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

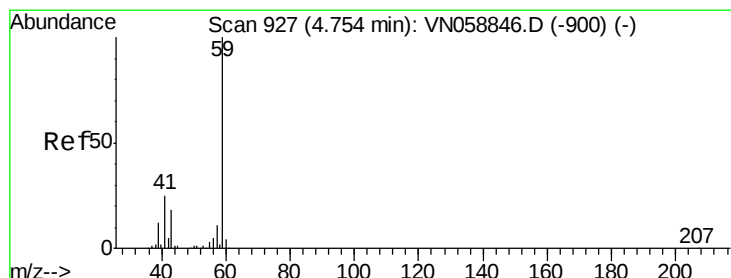
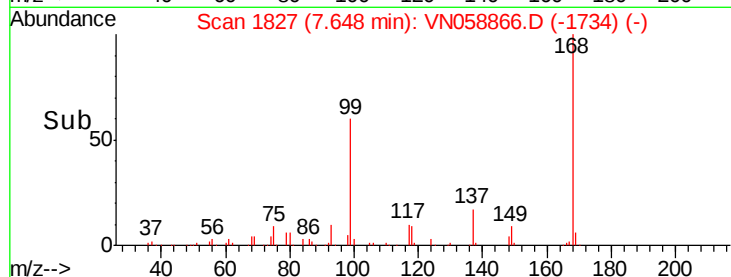
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 0.289 ug/l

RT: 4.75 min Scan# 927

Delta R.T. 0.00 min

Lab File: VN058866.D

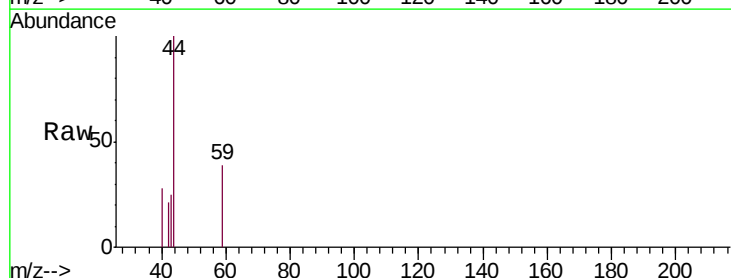
Acq: 18 Oct 2019 18:17

Tgt Ion: 59 Resp: 271

Ion Ratio Lower Upper

59 100

57 0.0 8.6 12.8#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.75

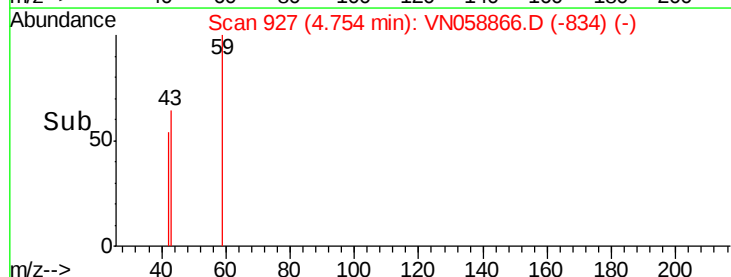
300

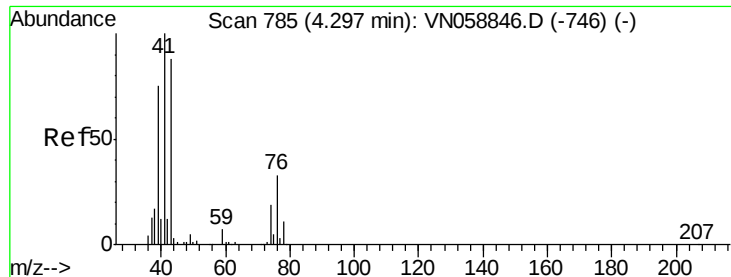
200

100

0

Time-->





#14

Allyl chloride

Concen: 1.238 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.26 min

Lab File: VN058866.D

Acq: 18 Oct 2019 18:17

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MSVOA_N

ClientSampleId :

FA19-JBW7806

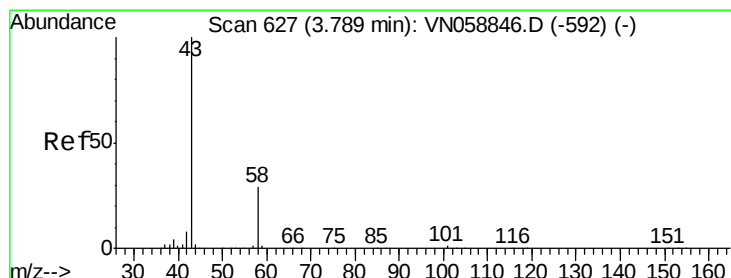
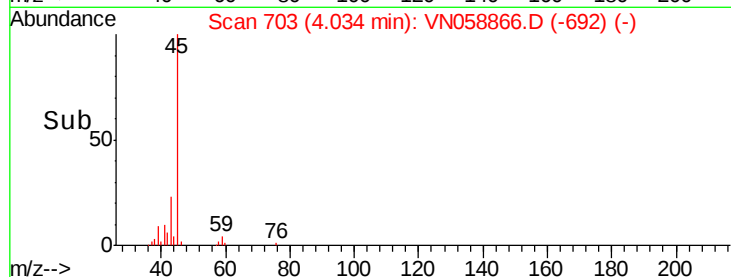
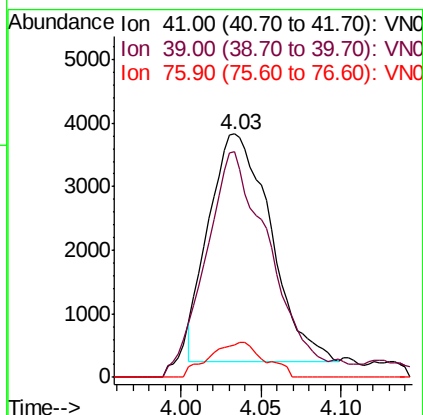
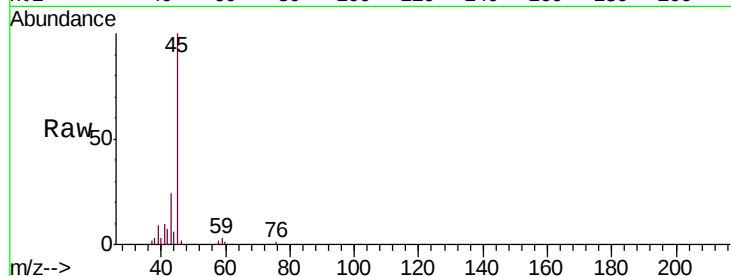
Tgt Ion: 41 Resp: 9500

Ion Ratio Lower Upper

41 100

39 84.4 55.9 83.9#

76 13.4 24.1 36.1#



#16

Acetone

Concen: 2.072 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN058866.D

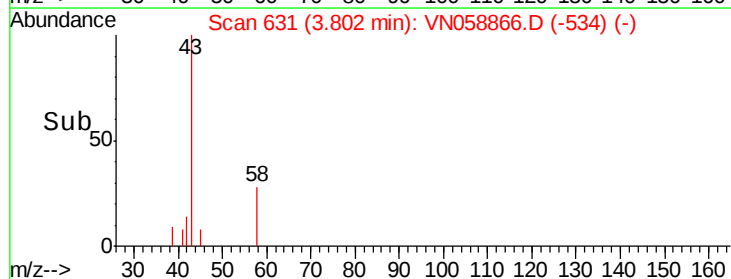
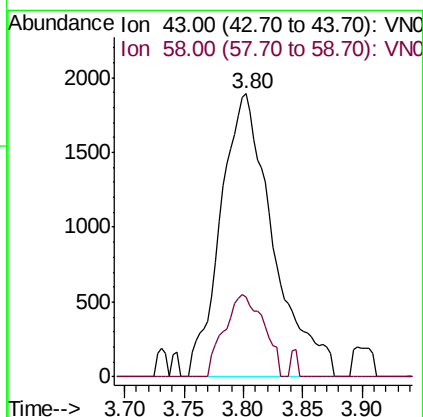
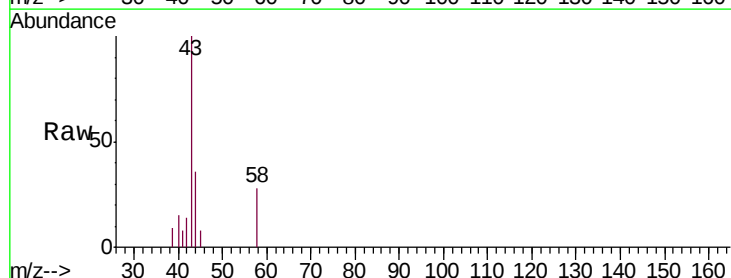
Acq: 18 Oct 2019 18:17

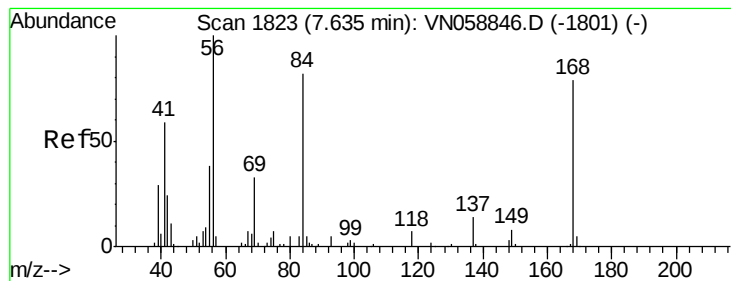
Tgt Ion: 43 Resp: 5778

Ion Ratio Lower Upper

43 100

58 28.1 23.1 34.7





#31

Cyclohexane

Concen: 1.125 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

Lab File: VN058866.D

Acq: 18 Oct 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7806

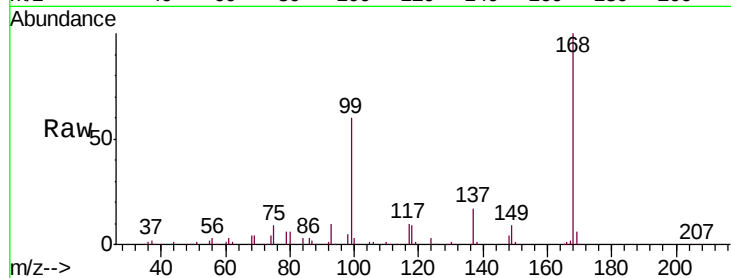
Tgt Ion: 56 Resp: 9119

Ion Ratio Lower Upper

56 100

69 168.3 26.2 39.4#

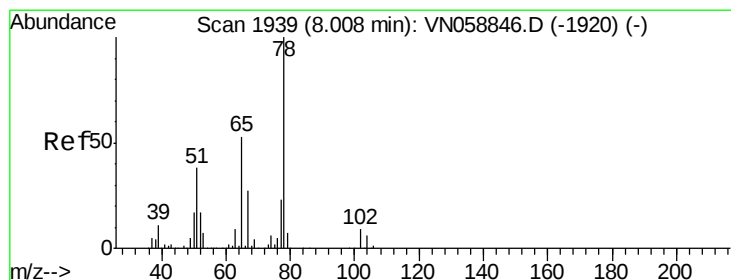
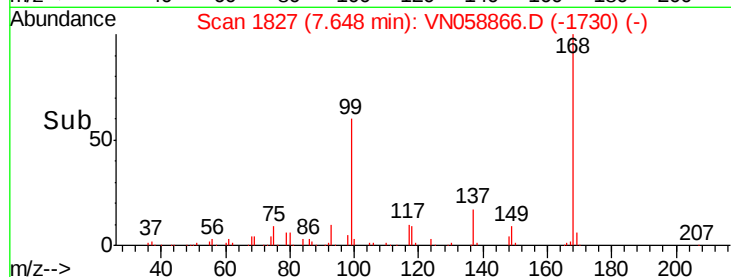
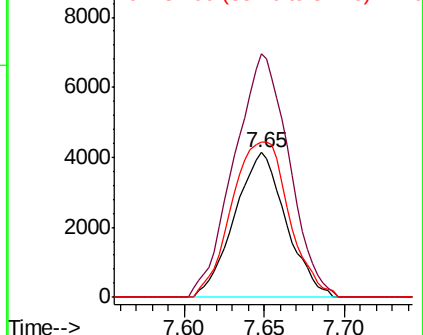
84 107.6 65.6 98.4#



Abundance Ion 56.00 (55.70 to 56.70): VNC

Ion 69.00 (68.70 to 69.70): VNC

Ion 84.00 (83.70 to 84.70): VNC



#33

1,2-Dichloroethane-d4

Concen: 54.611 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. 0.00 min

Lab File: VN058866.D

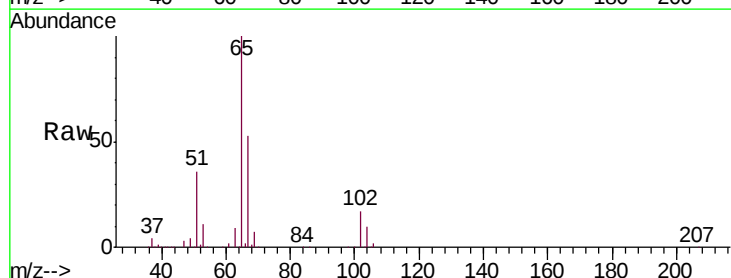
Acq: 18 Oct 2019 18:17

Tgt Ion: 65 Resp: 308157

Ion Ratio Lower Upper

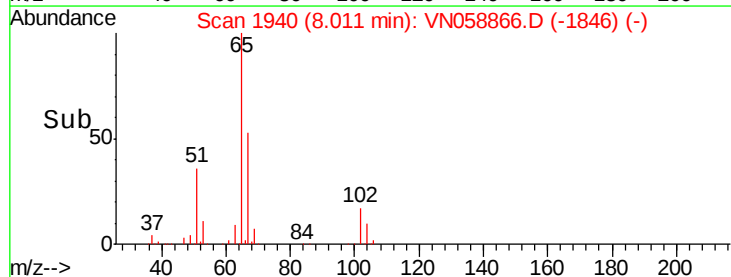
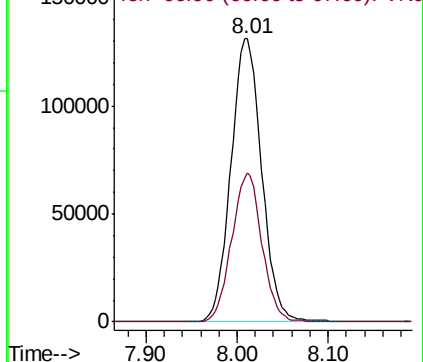
65 100

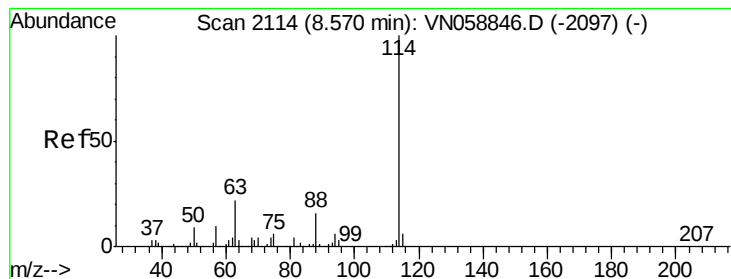
67 51.4 0.0 103.2



Abundance Ion 64.90 (64.60 to 65.60): VNC

Ion 66.90 (66.60 to 67.60): VNC





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2114

Delta R.T. 0.00 min

Lab File: VN058866.D

Acq: 18 Oct 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7806

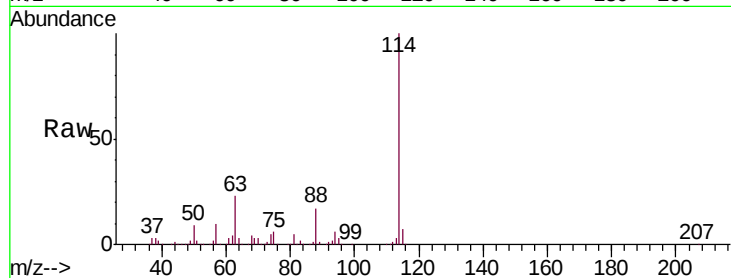
Tgt Ion:114 Resp: 606653

Ion Ratio Lower Upper

114 100

63 22.8 0.0 44.4

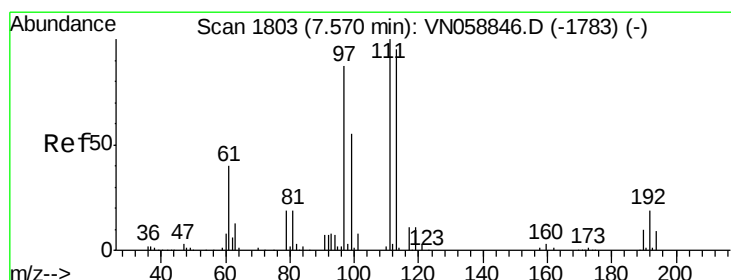
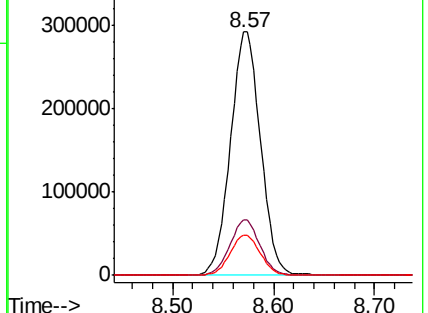
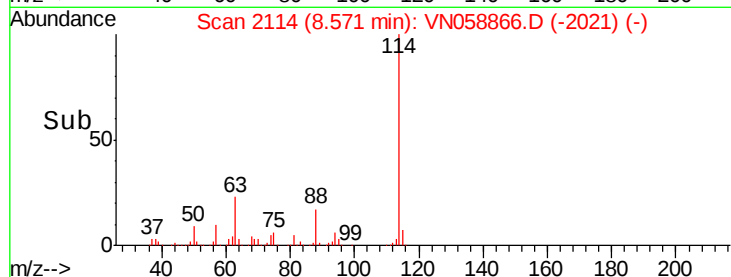
88 16.6 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 54.971 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN058866.D

Acq: 18 Oct 2019 18:17

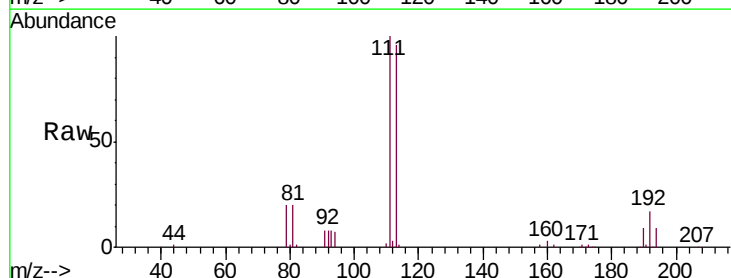
Tgt Ion:113 Resp: 219258

Ion Ratio Lower Upper

113 100

111 103.0 82.0 123.0

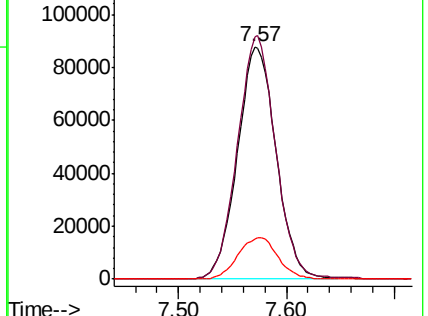
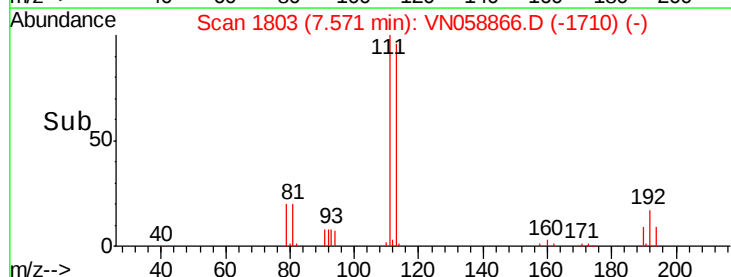
192 18.5 15.0 22.6

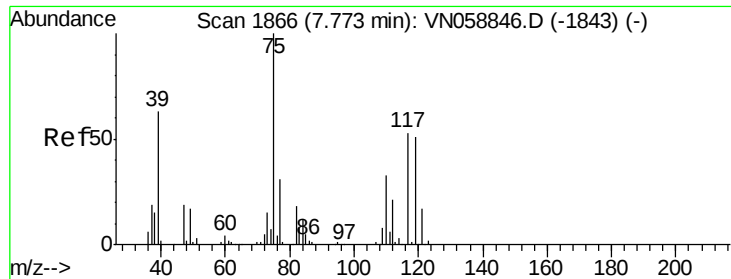


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

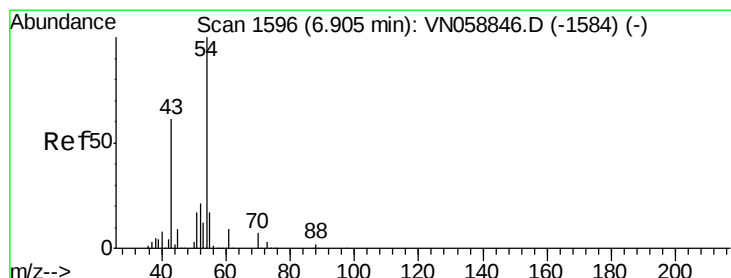
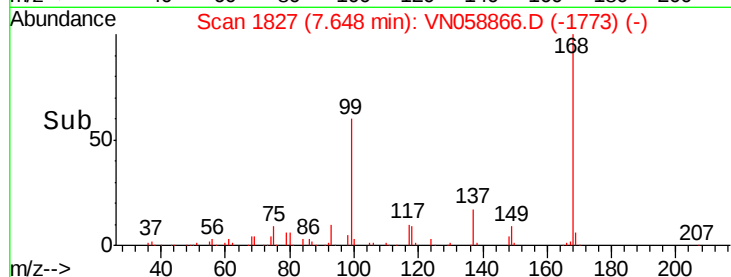
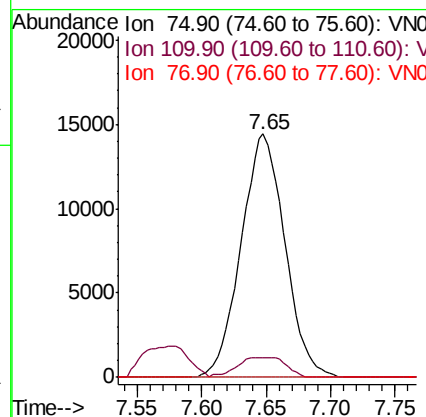
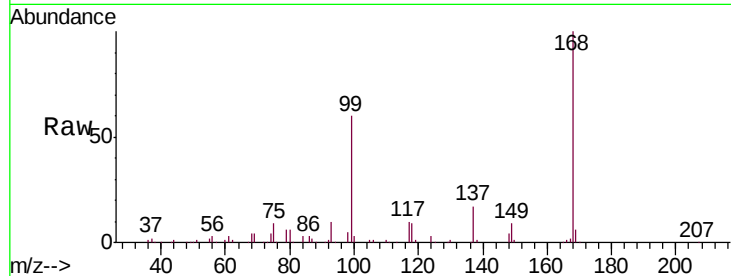




#36
 1,1-Dichloropropene
 Concen: 5.494 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058866.D
 Acq: 18 Oct 2019 18:17

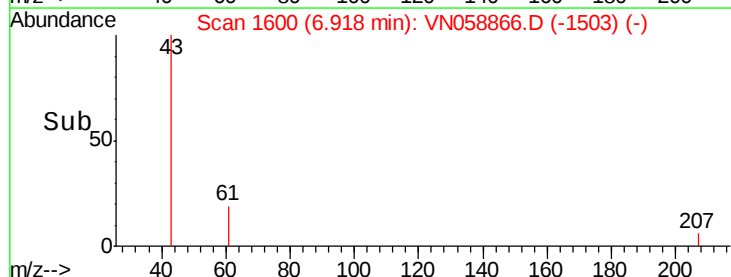
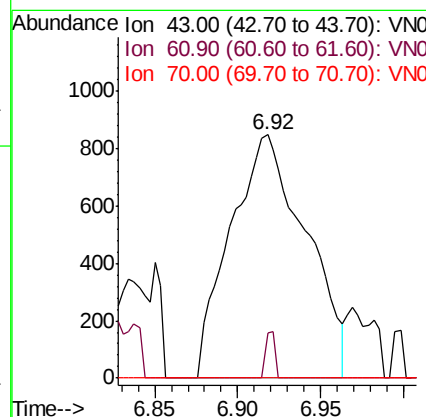
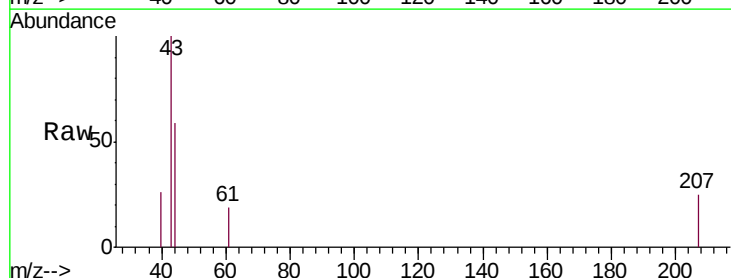
Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JBW7806

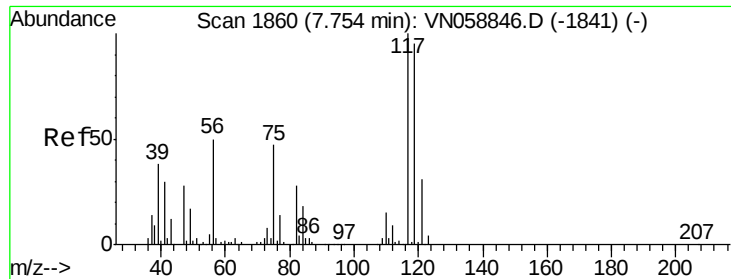
Tgt Ion: 75 Resp: 34125
 Ion Ratio Lower Upper
 75 100
 110 9.0 16.3 48.9#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 0.397 ug/l
 RT: 6.92 min Scan# 1600
 Delta R.T. 0.01 min
 Lab File: VN058866.D
 Acq: 18 Oct 2019 18:17

Tgt Ion: 43 Resp: 2686
 Ion Ratio Lower Upper
 43 100
 61 2.3 10.5 15.7#
 70 0.0 7.6 11.4#





#38

Carbon Tetrachloride

Concen: 6.128 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058866.D

Acq: 18 Oct 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7806

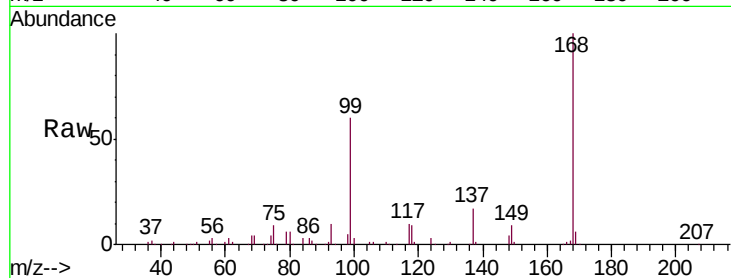
Tgt Ion:117 Resp: 39212

Ion Ratio Lower Upper

117 100

119 5.5 75.7 113.5#

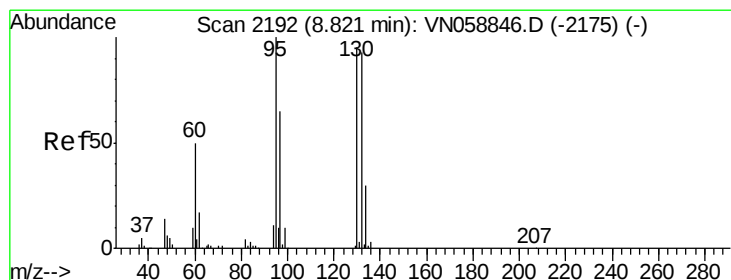
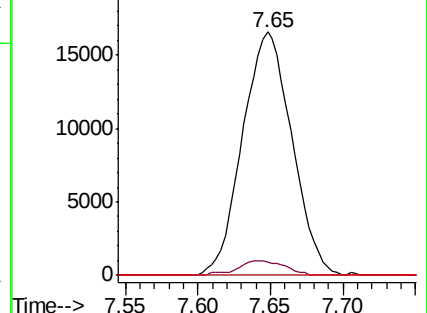
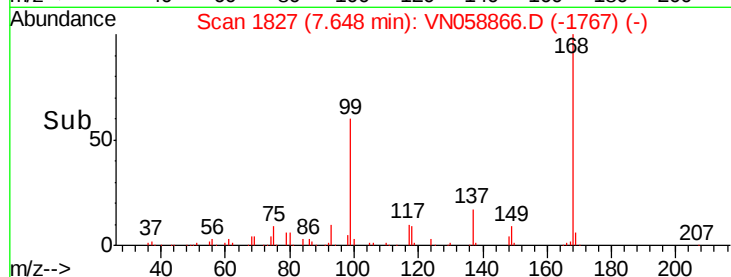
121 0.0 25.0 37.6#



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: 0.337 ug/l

RT: 8.82 min Scan# 2192

Delta R.T. 0.00 min

Lab File: VN058866.D

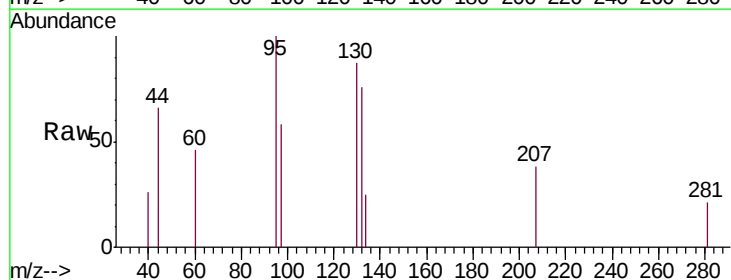
Acq: 18 Oct 2019 18:17

Tgt Ion:130 Resp: 1497

Ion Ratio Lower Upper

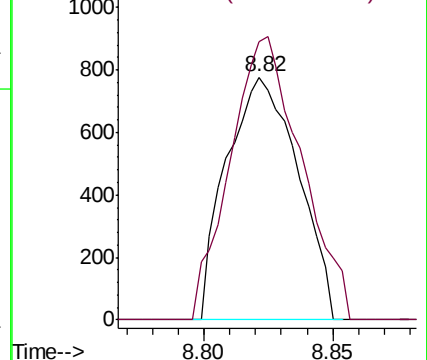
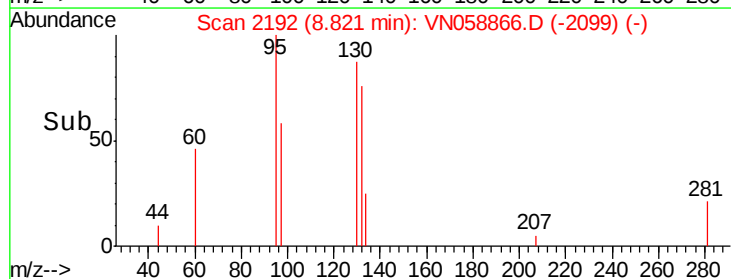
130 100

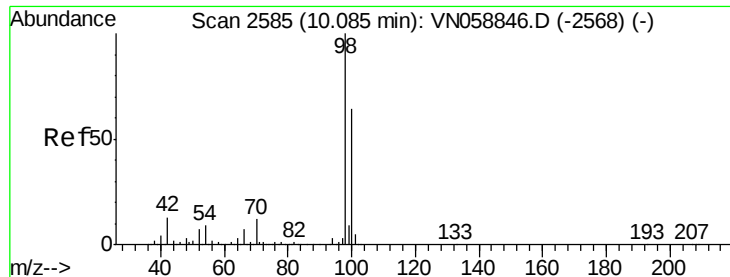
95 114.9 0.0 209.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 53.381 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. -0.00 min

Lab File: VN058866.D

Acq: 18 Oct 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

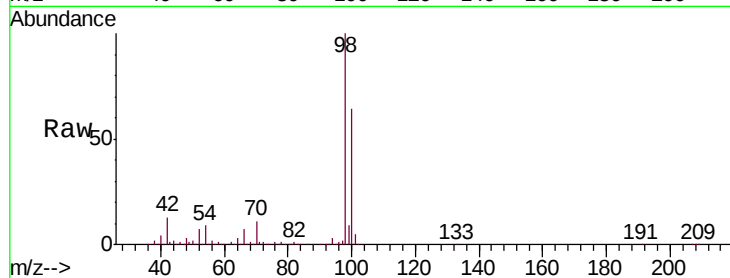
FA19-JBW7806

Tgt Ion: 98 Resp: 826513

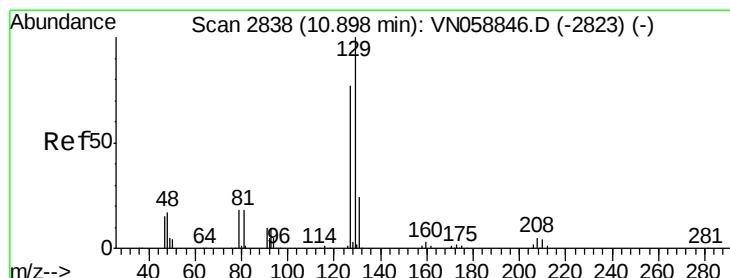
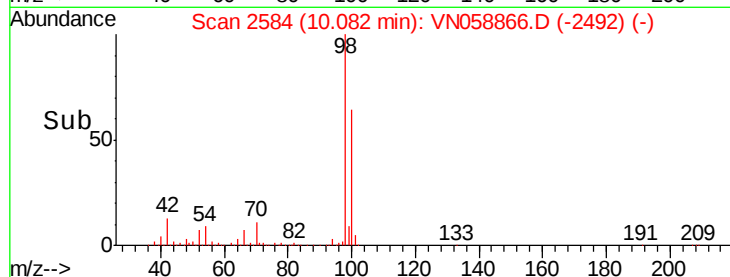
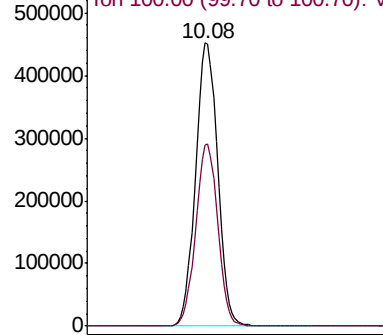
Ion Ratio Lower Upper

98 100

100 63.9 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN058846.D (-2568) (-)



#60

Dibromochloromethane

Concen: 5.359 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.27 min

Lab File: VN058866.D

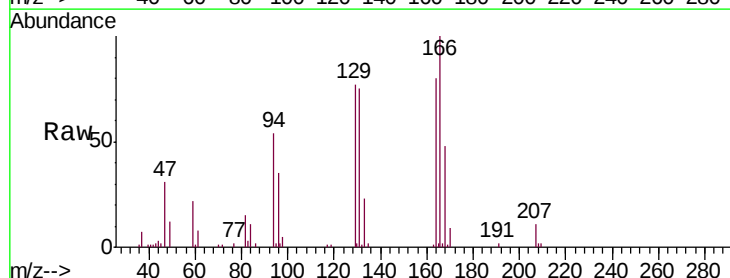
Acq: 18 Oct 2019 18:17

Tgt Ion: 129 Resp: 25699

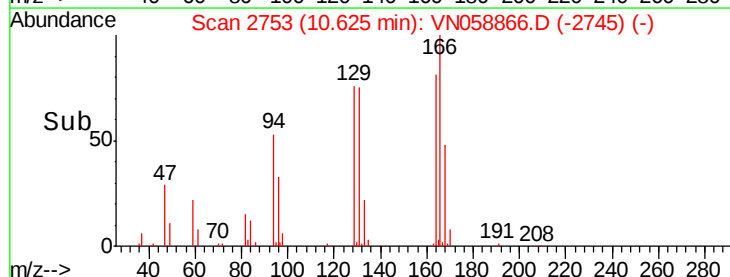
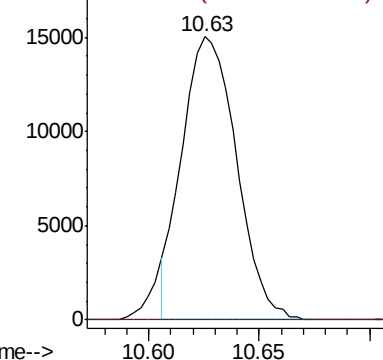
Ion Ratio Lower Upper

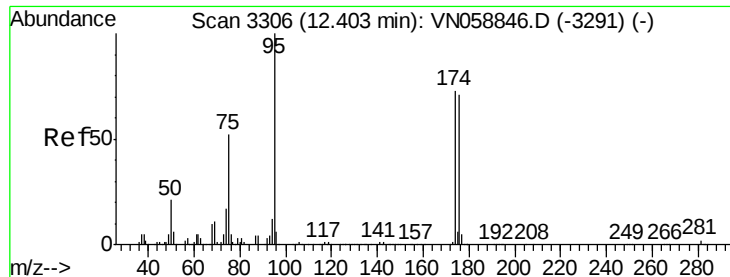
129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): VN058846.D (-2823) (-)





#62

4-Bromofluorobenzene

Concen: 46.251 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058866.D

Acq: 18 Oct 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7806

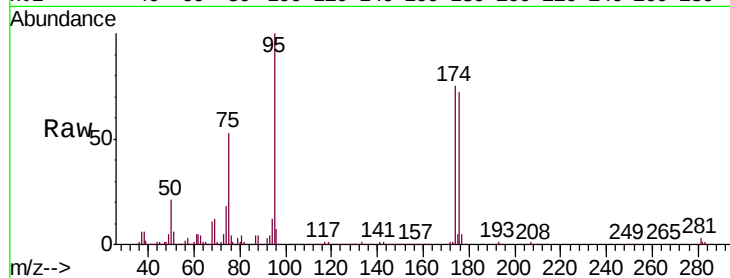
Tgt Ion: 95 Resp: 262973

Ion Ratio Lower Upper

95 100

174 75.1 0.0 147.6

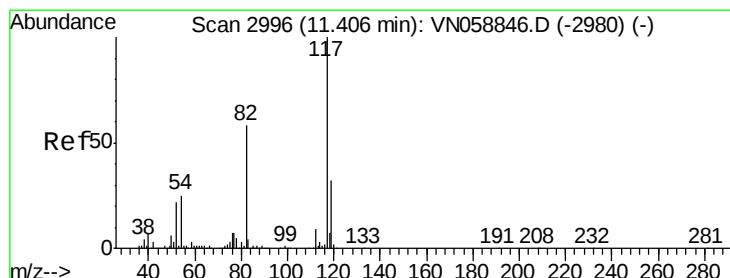
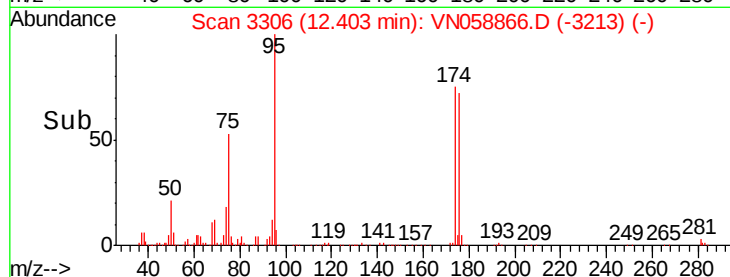
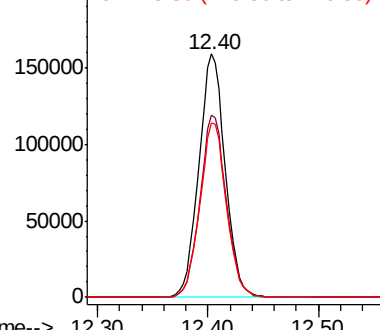
176 72.1 0.0 143.2



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058866.D

Acq: 18 Oct 2019 18:17

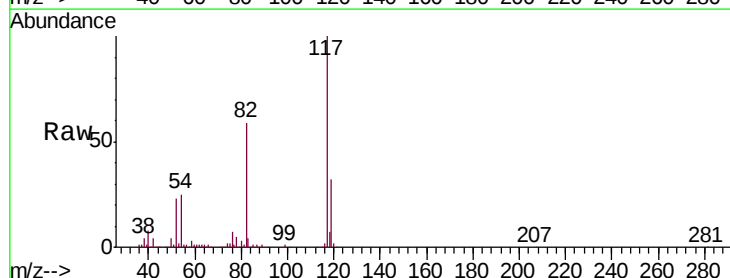
Tgt Ion: 117 Resp: 541393

Ion Ratio Lower Upper

117 100

82 59.0 46.6 69.8

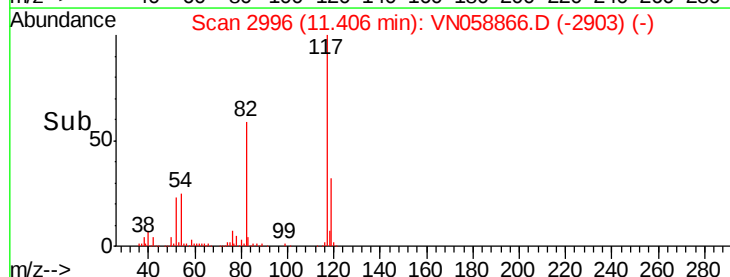
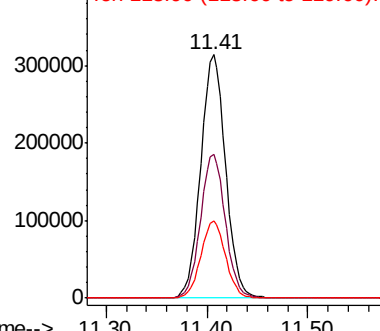
119 31.8 25.6 38.4

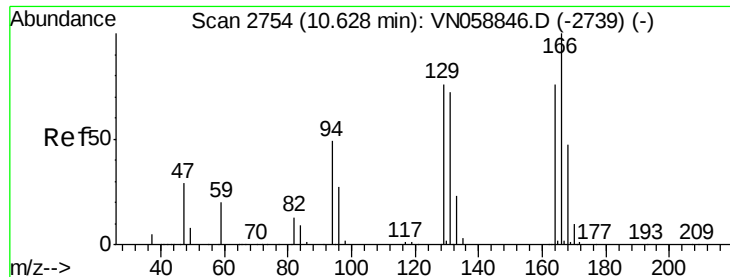


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#64

Tetrachloroethene

Concen: 7.259 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VN058866.D

Acq: 18 Oct 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7806

Tgt Ion:164 Resp: 27522

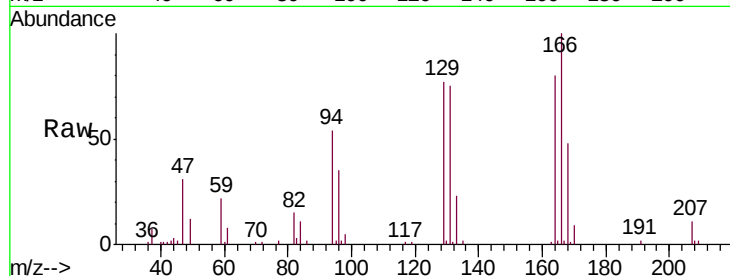
Ion Ratio Lower Upper

164 100

166 124.6 104.8 157.2

129 95.6 79.3 118.9

131 93.4 75.8 113.6



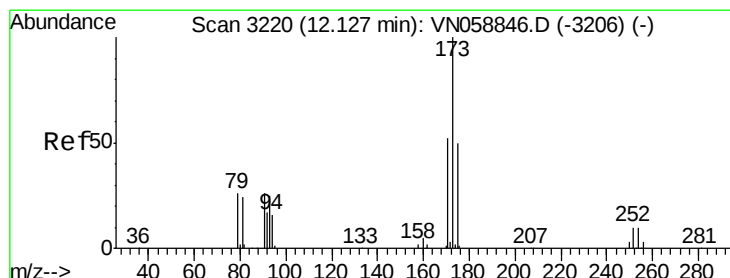
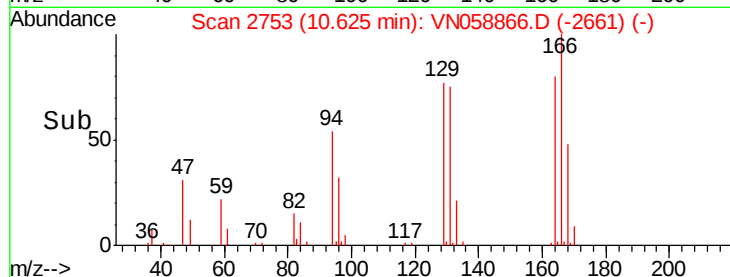
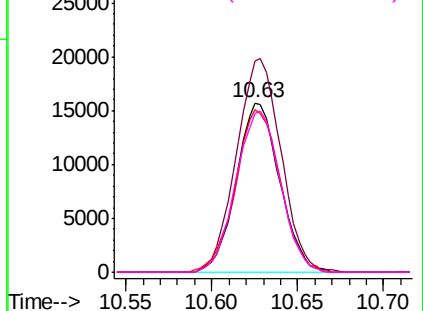
Abundance

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: 0.522 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN058866.D

Acq: 18 Oct 2019 18:17

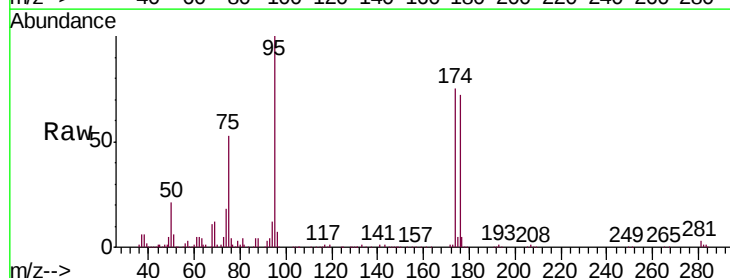
Tgt Ion:173 Resp: 1683

Ion Ratio Lower Upper

173 100

175 716.0 24.7 74.1#

254 0.0 0.0 0.0

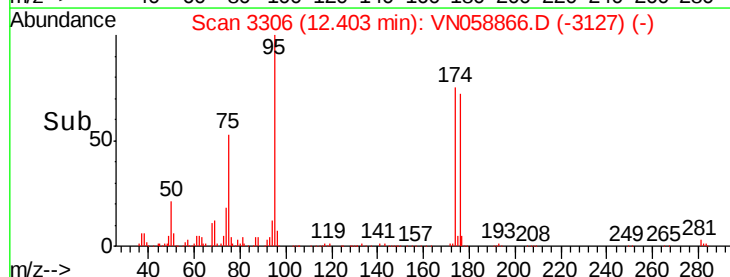
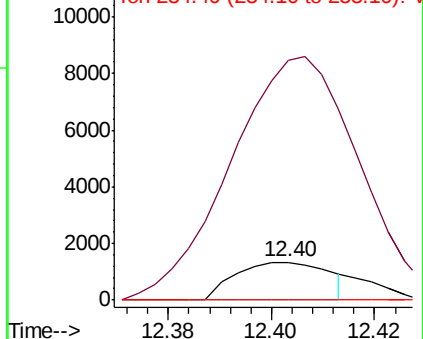


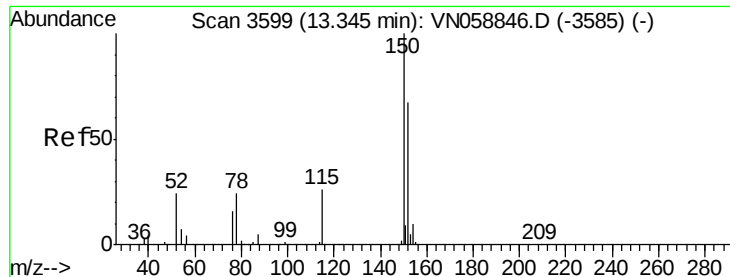
Abundance

Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN058866.D

Acq: 18 Oct 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7806

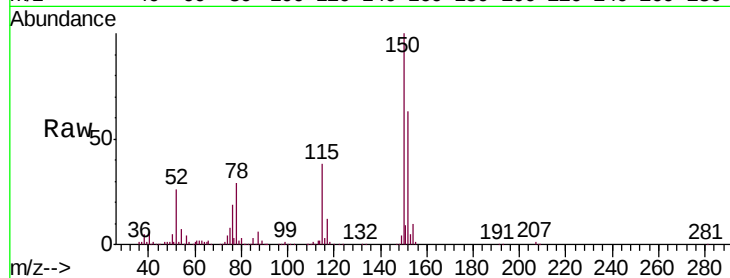
Tgt Ion:152 Resp: 200380

Ion Ratio Lower Upper

152 100

115 61.1 30.5 91.5

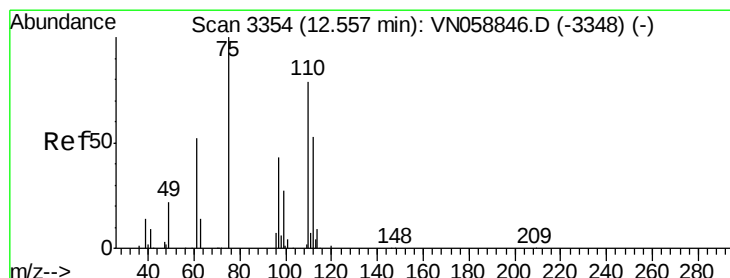
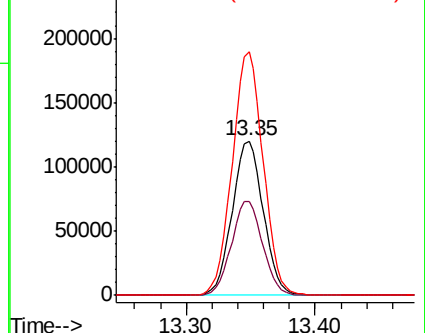
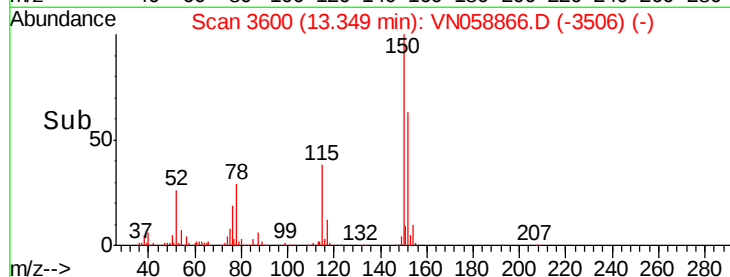
150 157.6 0.0 344.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 30.403 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058866.D

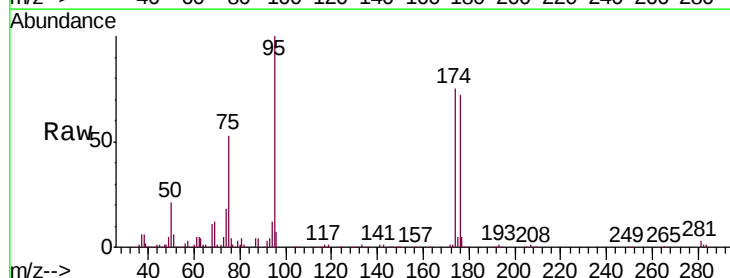
Acq: 18 Oct 2019 18:17

Tgt Ion: 75 Resp: 141194

Ion Ratio Lower Upper

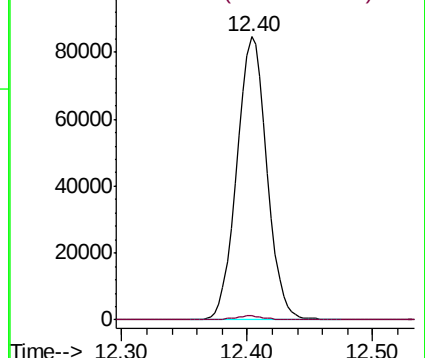
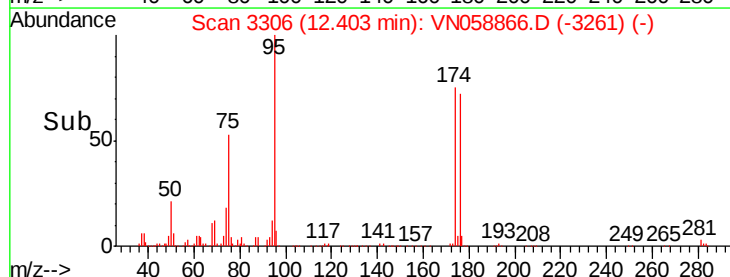
75 100

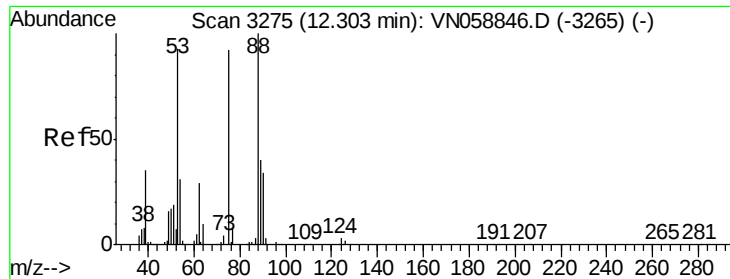
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

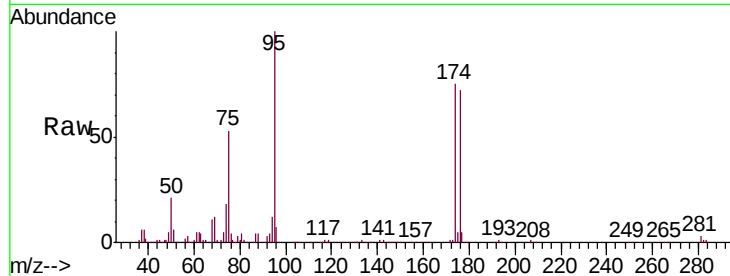




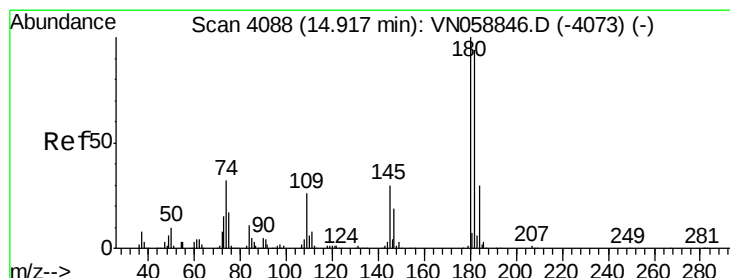
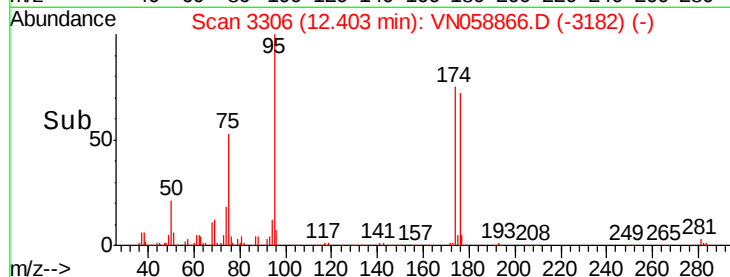
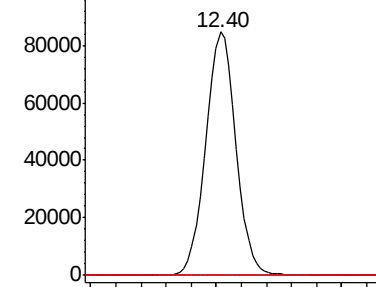
#81
trans-1,4-Dichloro-2-butene
Concen: 79.203 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN058866.D
Acq: 18 Oct 2019 18:17

Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7806

Tgt Ion: 75 Resp: 141194
Ion Ratio Lower Upper
75 100
53 0.2 78.6 118.0#
89 0.0 35.4 53.0#

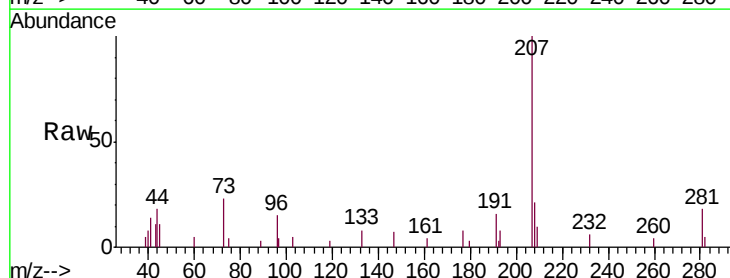


Abundance Ion 74.90 (74.60 to 75.60): VN0
Ion 53.00 (52.70 to 53.70): VN0
Ion 88.90 (88.60 to 89.60): VN0

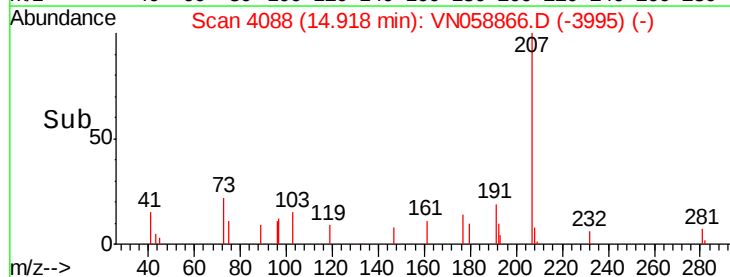
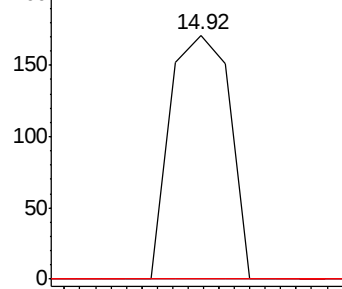


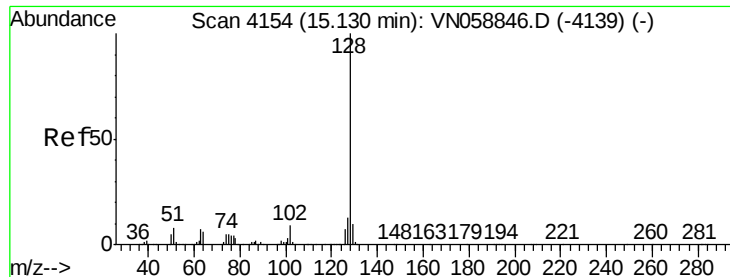
#93
1,2,4-Trichlorobenzene
Concen: 2.542 ug/l
RT: 14.92 min Scan# 4088
Delta R.T. 0.00 min
Lab File: VN058866.D
Acq: 18 Oct 2019 18:17

Tgt Ion: 180 Resp: 91
Ion Ratio Lower Upper
180 100
182 0.0 47.3 142.0#
145 0.0 15.3 45.8#



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





#95

Naphthalene

Concen: 2.243 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN058866.D

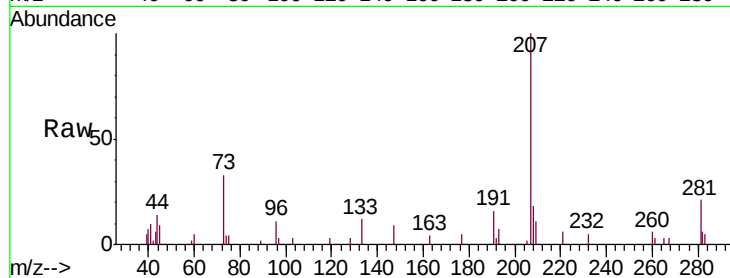
Acq: 18 Oct 2019 18:17

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7806



Tgt Ion:	128	Resp:	216
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.4	12.6#

