

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN102119\
 Data File : VN058894.D
 Acq On : 21 Oct 2019 17:19
 Operator : JC/SP
 Sample : K5451-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JBW7326B

Quant Time: Oct 22 03:21:36 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	426248	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	670592	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	593334	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	217041	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	309125	49.45	ug/l	0.00
Spiked Amount			Recovery	=	98.90%	
35) Dibromofluoromethane	7.57	113	226567	51.39	ug/l	0.00
Spiked Amount			Recovery	=	102.78%	
50) Toluene-d8	10.08	98	859123	50.20	ug/l	0.00
Spiked Amount			Recovery	=	100.40%	
62) 4-Bromofluorobenzene	12.40	95	275962	43.91	ug/l	0.00
Spiked Amount			Recovery	=	87.82%	

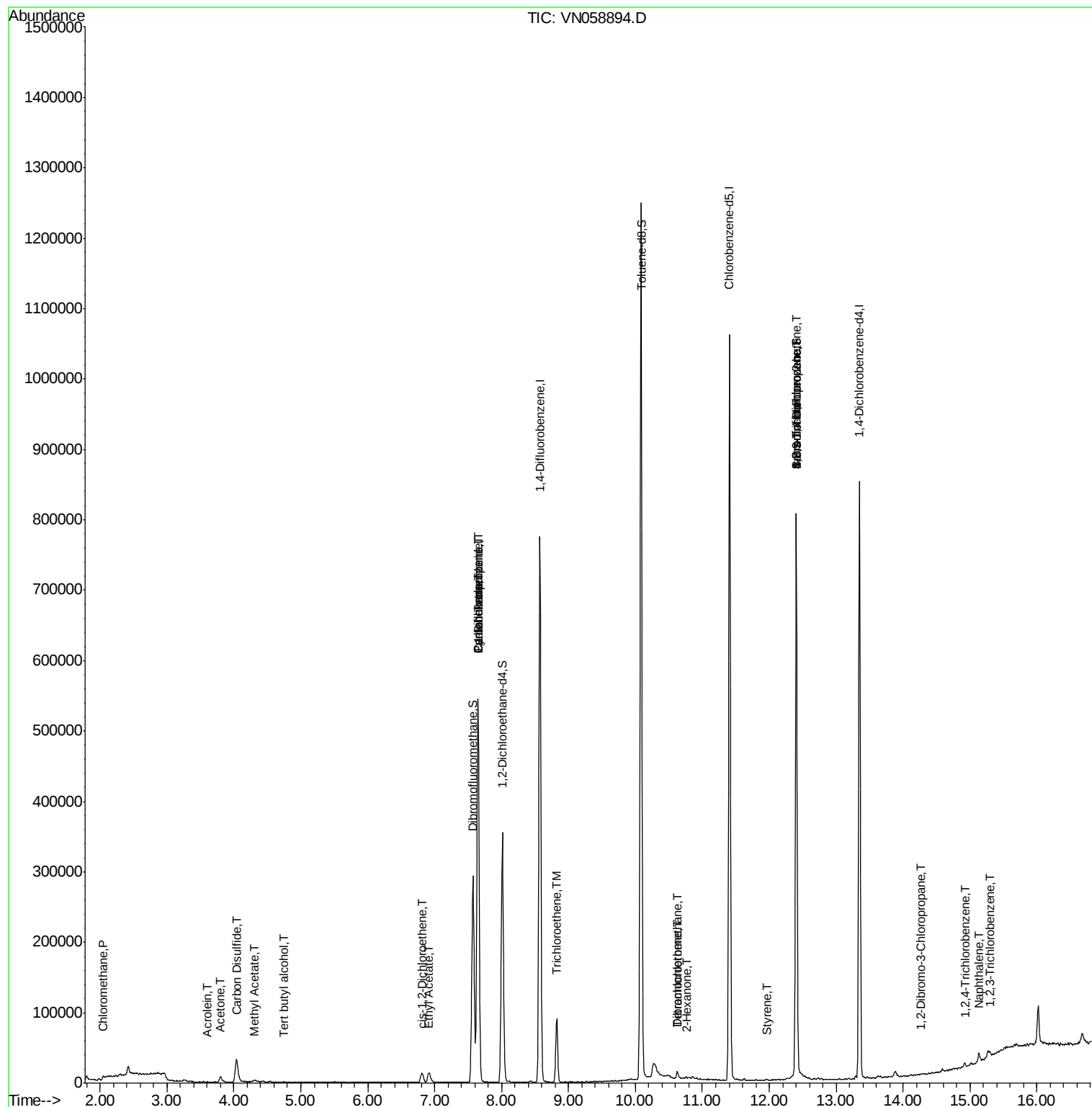
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2803	0.426	ug/l	94
11) Tert butyl alcohol	4.75	59	523	0.504	ug/l #	72
13) Acrolein	3.59	56	154	0.216	ug/l #	14
16) Acetone	3.80	43	13263	4.293	ug/l	99
17) Carbon Disulfide	4.03	76	3854	0.285	ug/l #	95
18) Methyl Acetate	4.31	43	4434	0.631	ug/l #	81
27) cis-1,2-Dichloroethene	6.81	96	4494	0.848	ug/l	38
31) Cyclohexane	7.65	56	10474	1.166	ug/l #	13
36) 1,1-Dichloropropene	7.65	75	36250	5.280	ug/l #	51
37) Ethyl Acetate	6.92	43	24211	3.236	ug/l	97
38) Carbon Tetrachloride	7.65	117	43107	6.095	ug/l #	16
44) Trichloroethene	8.82	130	32737	6.666	ug/l	97
59) 2-Hexanone	10.76	43	1668	0.308	ug/l	77
60) Dibromochloromethane	10.63	129	2166	0.409	ug/l #	10
64) Tetrachloroethene	10.63	164	2455	0.591	ug/l #	73
70) Styrene	11.97	104	833	1.772	ug/l #	46
71) Bromoform	12.40	173	1525	0.431	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	147612	29.345	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	147612	76.447	ug/l #	10
92) 1,2-Dibromo-3-Chloropropan	14.28	75	495	0.392	ug/l #	15
93) 1,2,4-Trichlorobenzene	14.92	180	2082	2.978	ug/l	86
95) Naphthalene	15.13	128	7870	2.830	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.30	180	2405	2.938	ug/l	93

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN102119\
Data File : VN058894.D
Acq On : 21 Oct 2019 17:19
Operator : JC/SP
Sample : K5451-03
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7326B

Quant Time: Oct 22 03:21:36 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N101819W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 19 00:16:20 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058894.D

Acq: 21 Oct 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

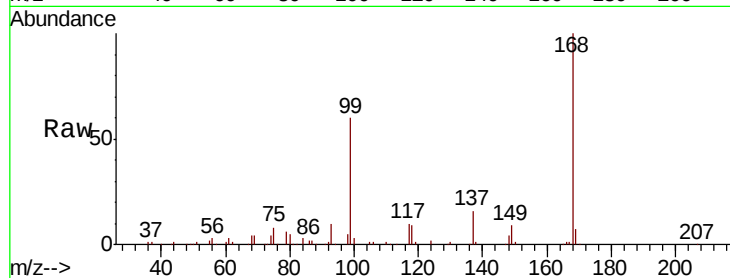
FA19-JBW7326B

Tot Ion:168 Resp: 426248

Ion Ratio Lower Upper

168 100

99 59.6 48.1 72.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

150000

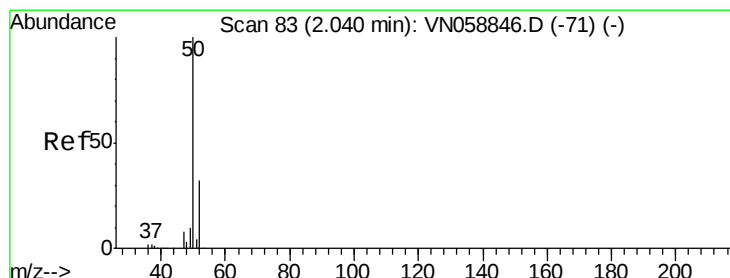
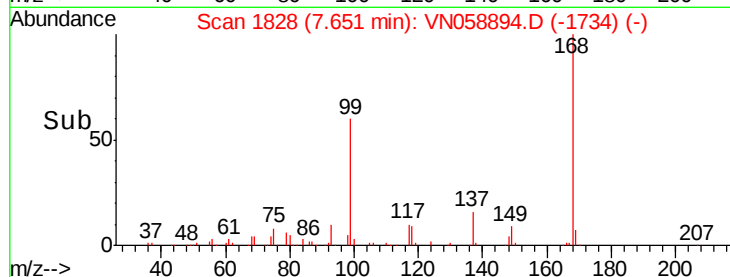
100000

50000

0

7.60 7.70

Time-->



#3

Chloromethane

Concen: 0.426 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058894.D

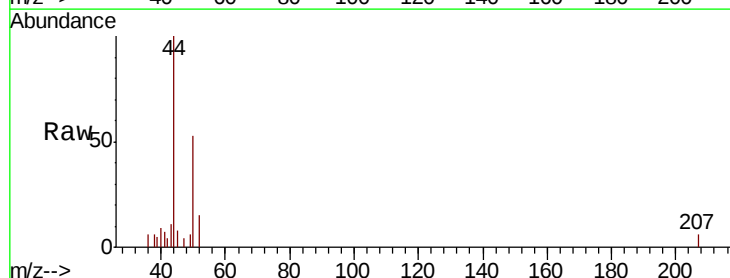
Acq: 21 Oct 2019 17:19

Tgt Ion: 50 Resp: 2803

Ion Ratio Lower Upper

50 100

52 28.8 25.7 38.5



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2500

2000

1500

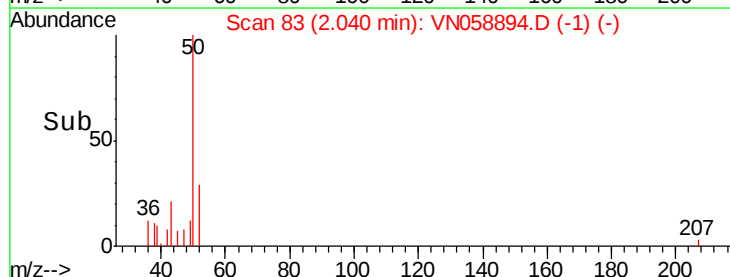
1000

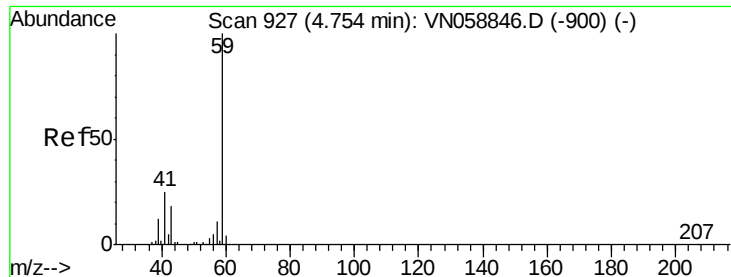
500

0

2.00 2.05 2.10

Time-->

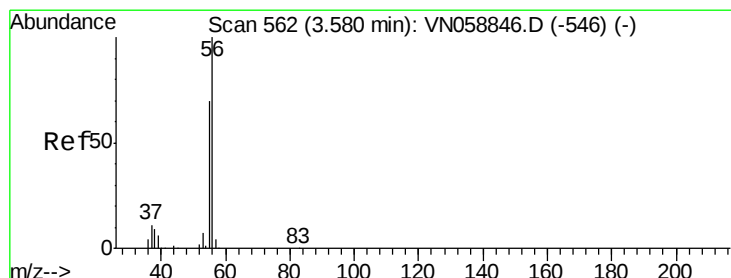
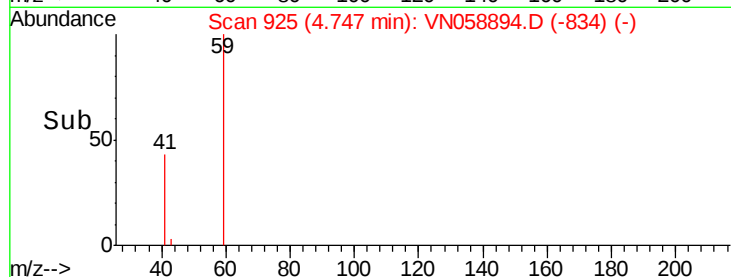
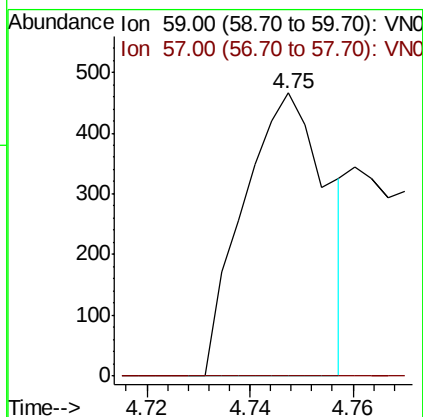
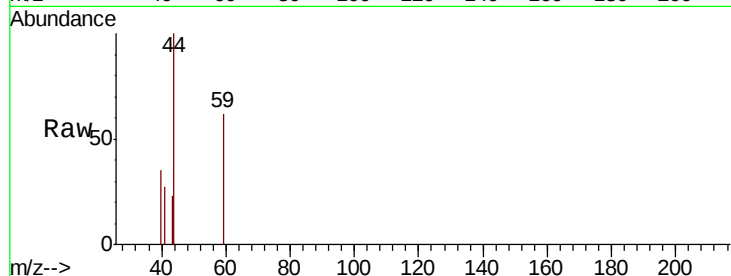




#11
Tert butyl alcohol
Concen: 0.504 ug/l
RT: 4.75 min Scan# 925
Delta R.T. -0.01 min
Lab File: VN058894.D
Acq: 21 Oct 2019 17:19

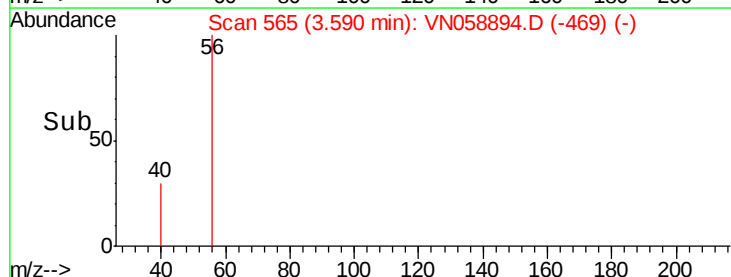
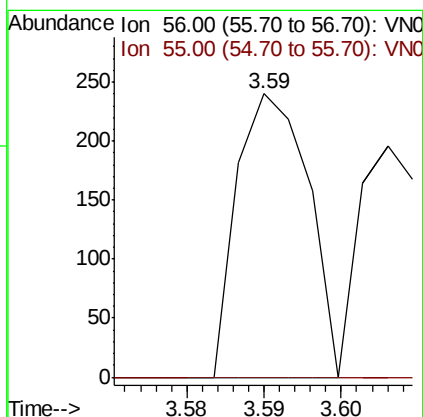
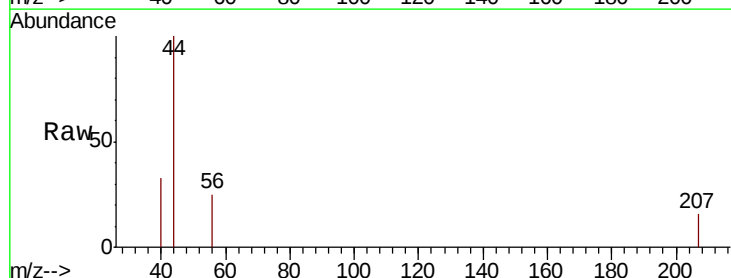
Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7326B

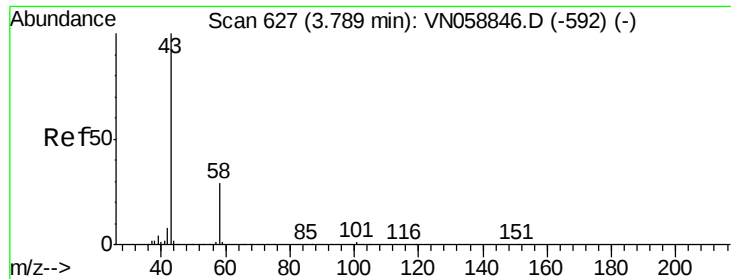
Tot Ion: 59 Resp: 523
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#



#13
Acrolein
Concen: 0.216 ug/l
RT: 3.59 min Scan# 565
Delta R.T. 0.01 min
Lab File: VN058894.D
Acq: 21 Oct 2019 17:19

Tgt Ion: 56 Resp: 154
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#





#16

Acetone

Concen: 4.293 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.01 min

Lab File: VN058894.D

Acq: 21 Oct 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

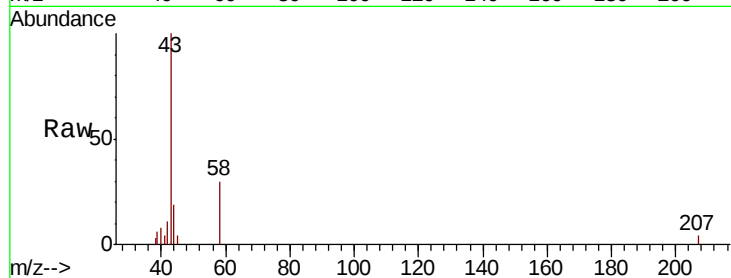
FA19-JBW7326B

Tot Ion: 43 Resp: 13263

Ion Ratio Lower Upper

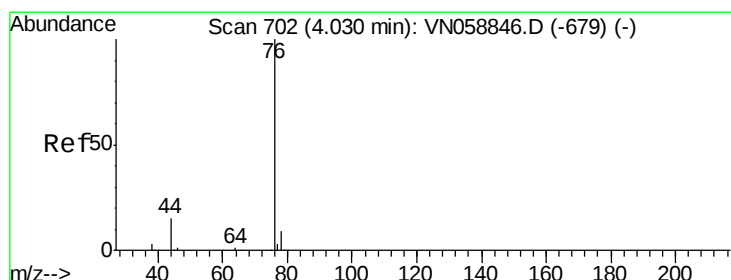
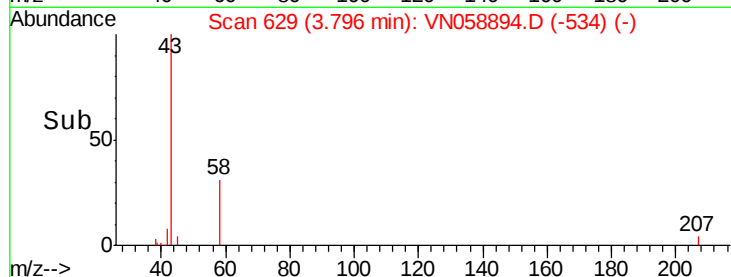
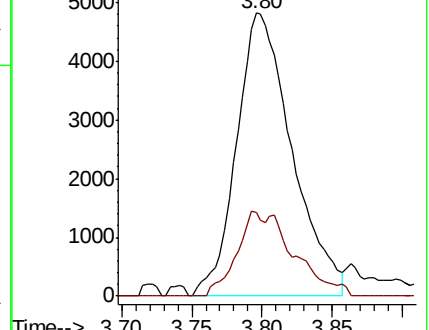
43 100

58 29.5 23.1 34.7



Abundance Ion 43.00 (42.70 to 43.70): VN058894.D (-534) (-)

Ion 58.00 (57.70 to 58.70): VN058894.D (-534) (-)



#17

Carbon Disulfide

Concen: 0.285 ug/l

RT: 4.03 min Scan# 702

Delta R.T. 0.00 min

Lab File: VN058894.D

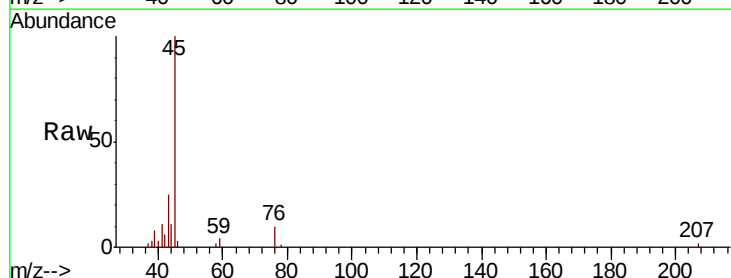
Acq: 21 Oct 2019 17:19

Tgt Ion: 76 Resp: 3854

Ion Ratio Lower Upper

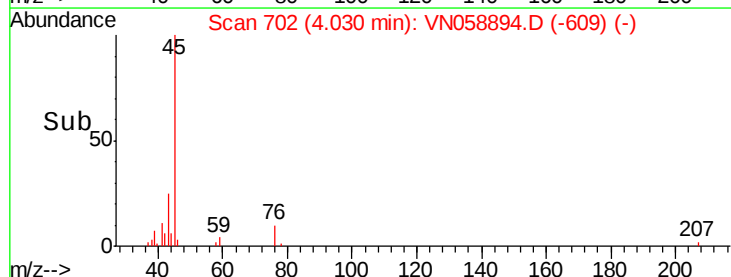
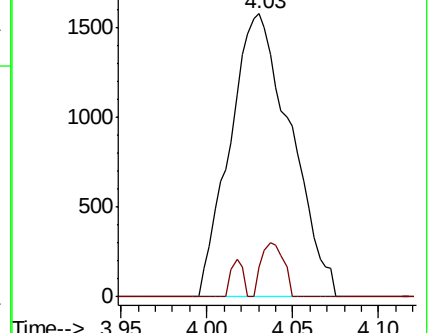
76 100

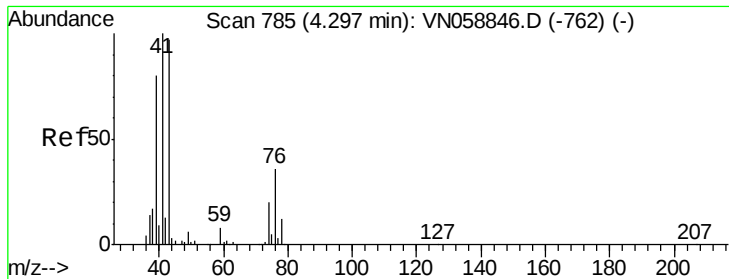
78 10.7 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN058894.D (-609) (-)

Ion 77.90 (77.60 to 78.60): VN058894.D (-609) (-)

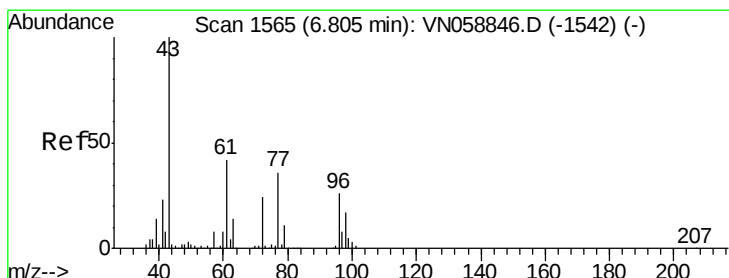
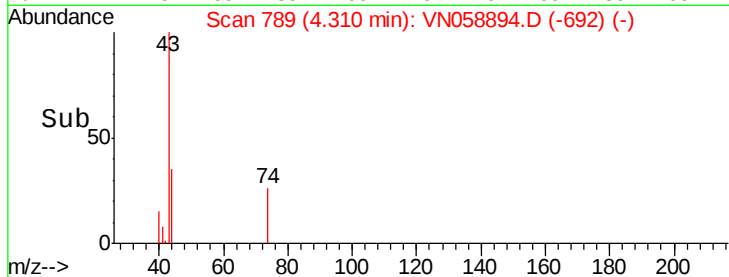
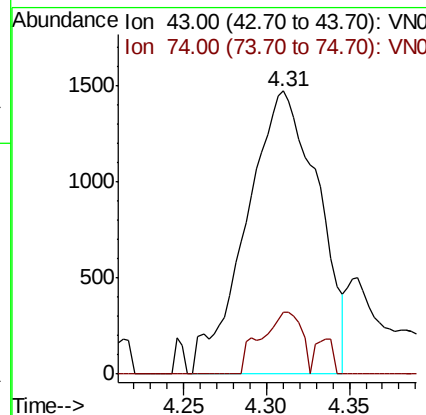
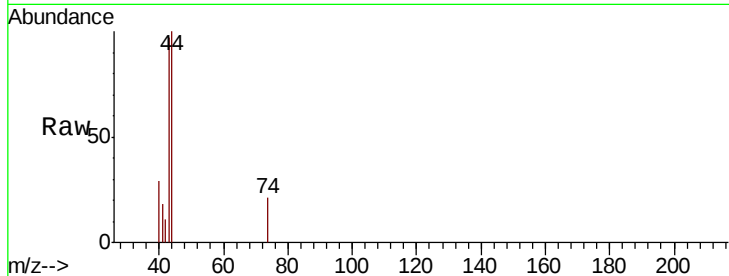




#18
Methyl Acetate
Concen: 0.631 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN058894.D
Acq: 21 Oct 2019 17:19

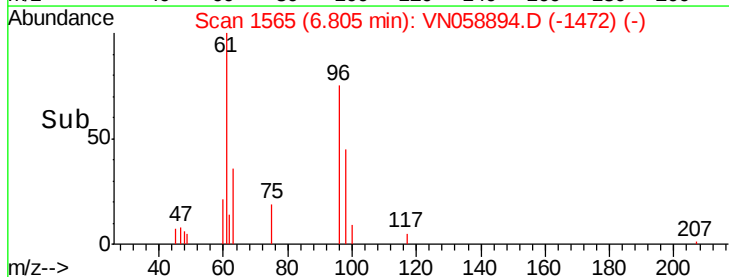
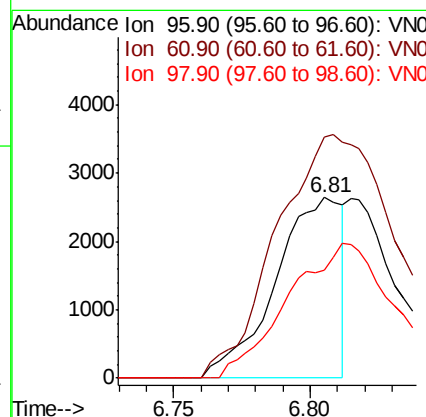
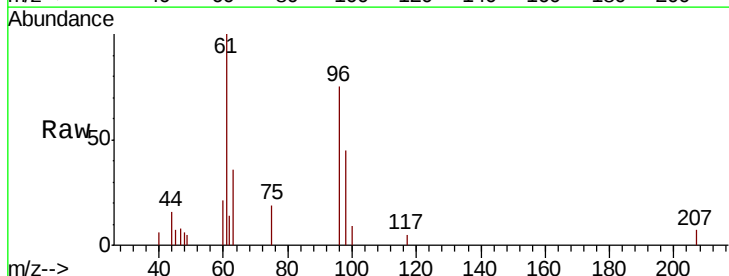
Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7326B

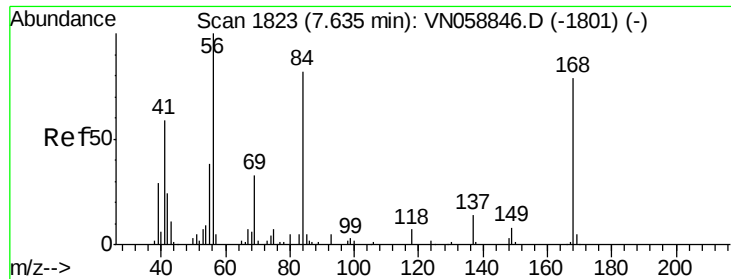
Tot Ion: 43 Resp: 4434
Ion Ratio Lower Upper
43 100
74 12.4 17.1 25.7#



#27
cis-1,2-Dichloroethene
Concen: 0.848 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VN058894.D
Acq: 21 Oct 2019 17:19

Tgt Ion: 96 Resp: 4494
Ion Ratio Lower Upper
96 100
61 241.8 0.0 325.0
98 116.9 0.0 128.0

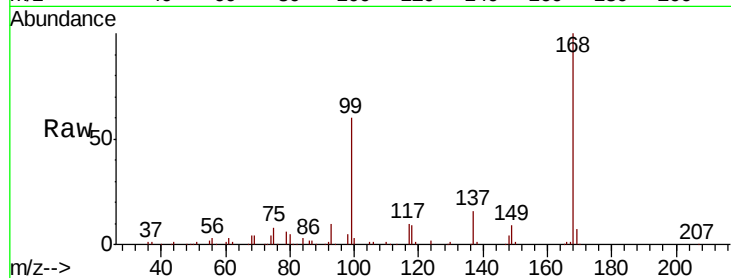




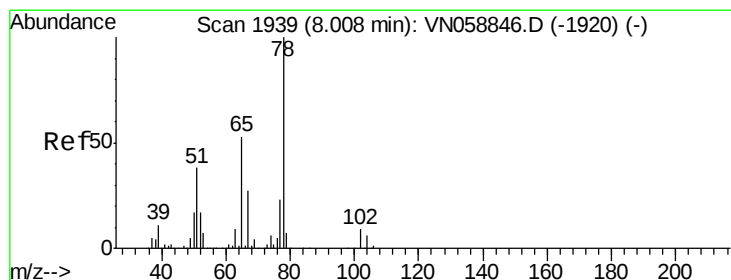
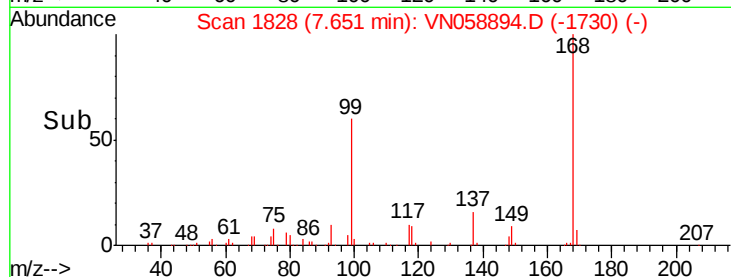
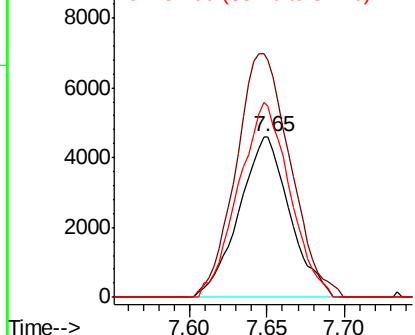
#31
Cyclohexane
Concen: 1.166 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.02 min
Lab File: VN058894.D
Acq: 21 Oct 2019 17:19

Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7326B

Tot Ion: 56 Resp: 10474
Ion Ratio Lower Upper
56 100
69 147.5 26.2 39.4#
84 118.5 65.6 98.4#

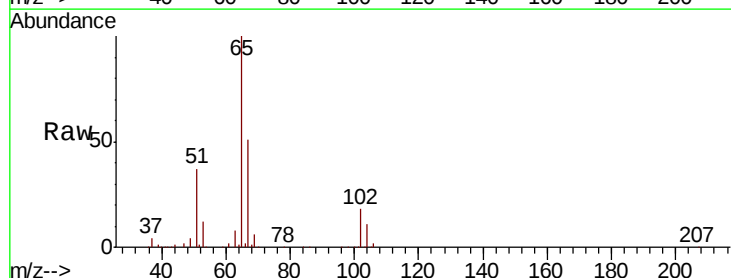


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

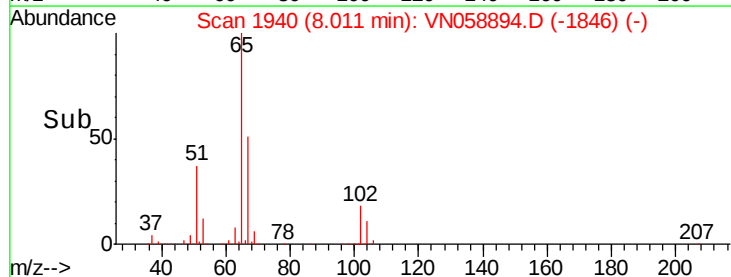
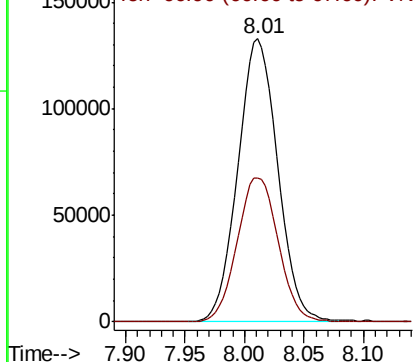


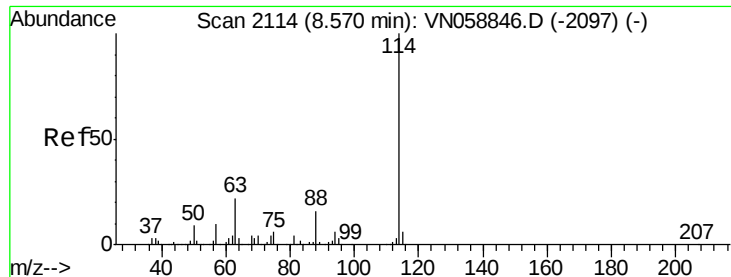
#33
1,2-Dichloroethane-d4
Concen: 49.447 ug/l
RT: 8.01 min Scan# 1940
Delta R.T. 0.00 min
Lab File: VN058894.D
Acq: 21 Oct 2019 17:19

Tgt Ion: 65 Resp: 309125
Ion Ratio Lower Upper
65 100
67 52.5 0.0 103.2



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

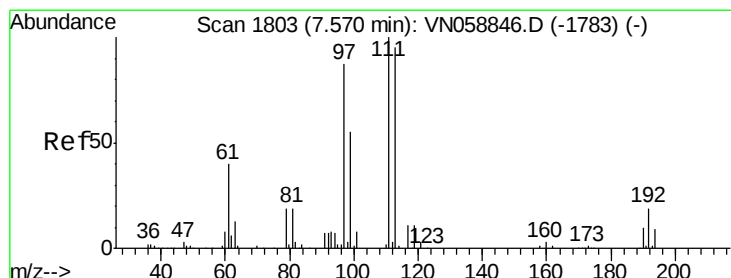
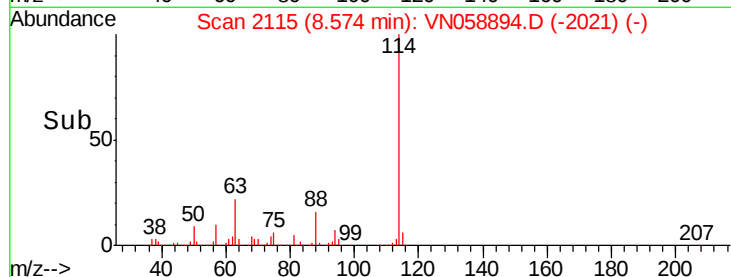
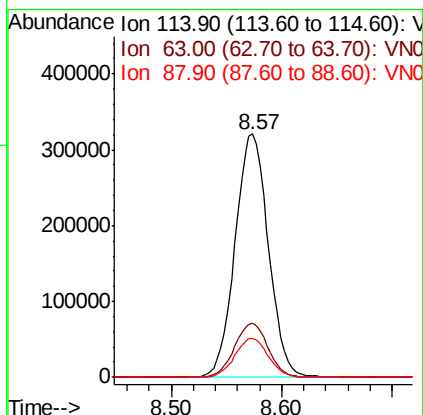
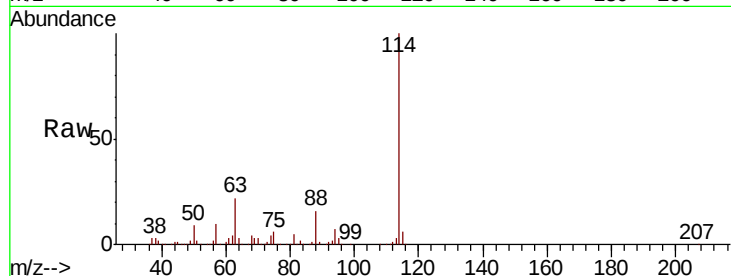




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058894.D
 Acq: 21 Oct 2019 17:19

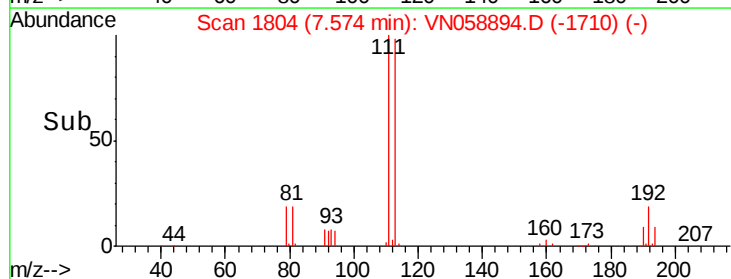
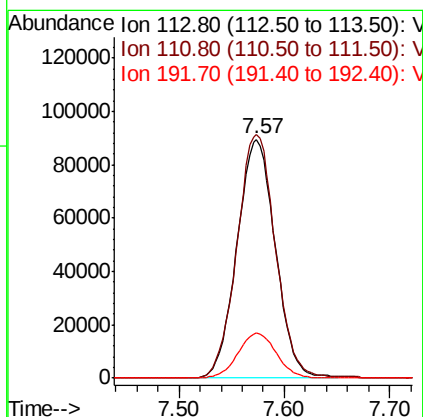
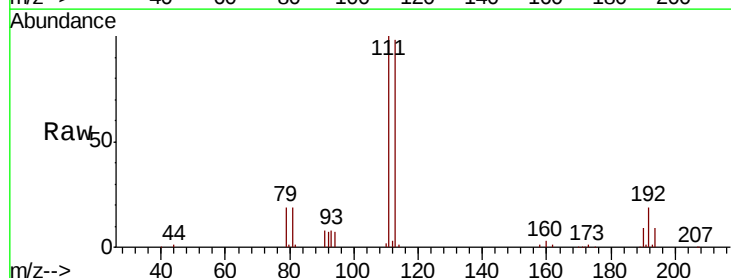
Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JBW7326B

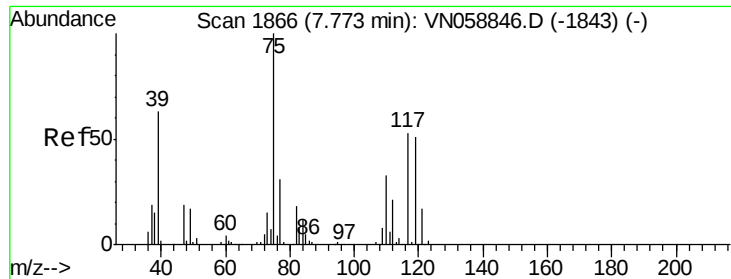
Tot Ion	Ratio	Lower	Upper
114	100		
63	22.1	0.0	44.4
88	16.2	0.0	31.4



#35
 Dibromofluoromethane
 Concen: 51.388 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.00 min
 Lab File: VN058894.D
 Acq: 21 Oct 2019 17:19

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.0	123.0
192	18.9	15.0	22.6

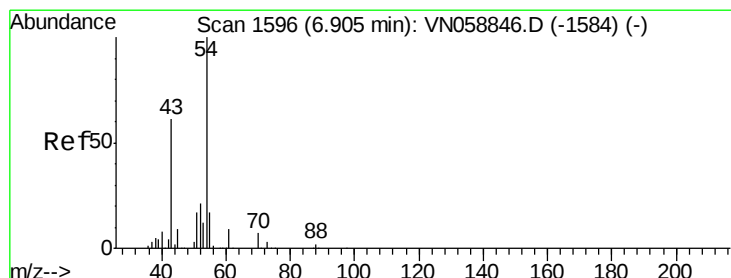
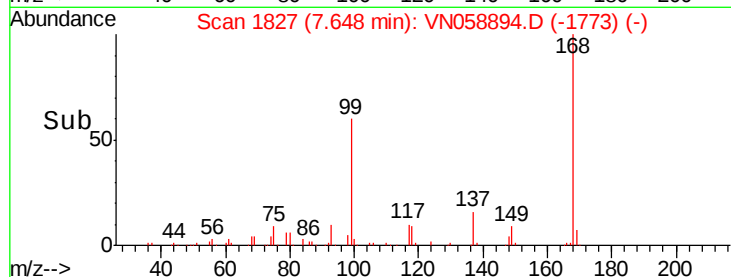
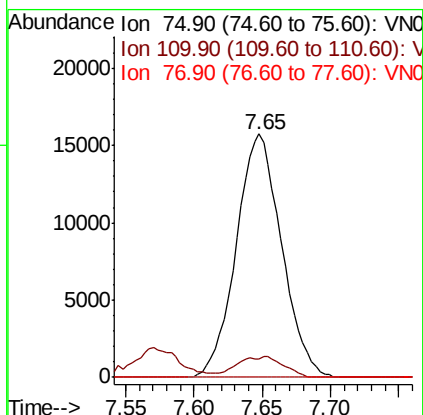
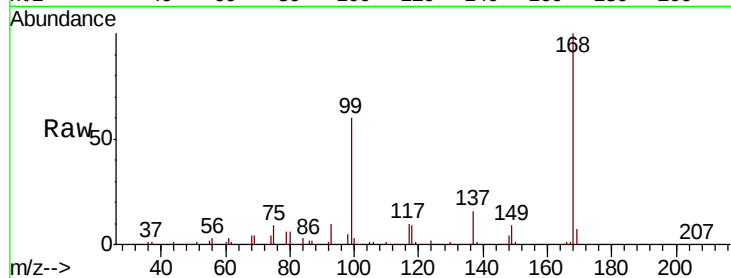




#36
 1,1-Dichloropropene
 Concen: 5.280 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN058894.D
 Acq: 21 Oct 2019 17:19

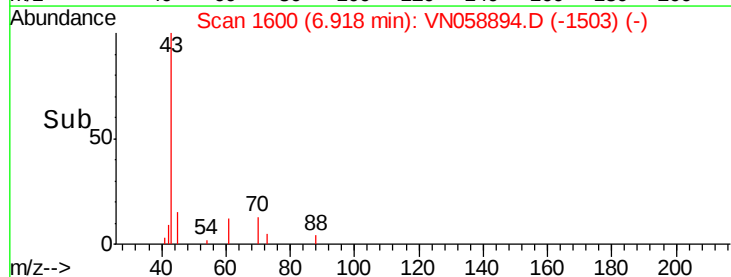
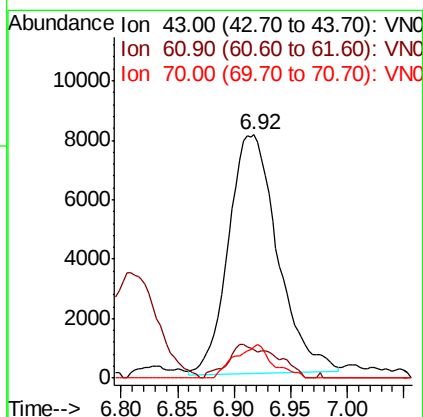
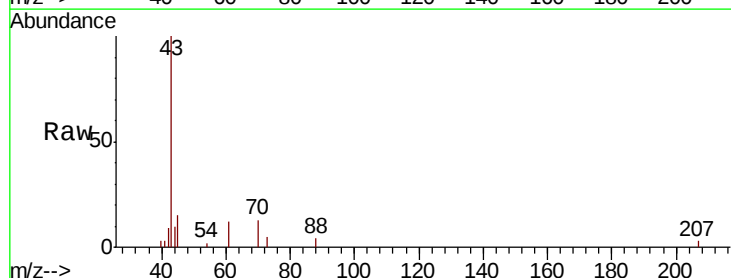
Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JBW7326B

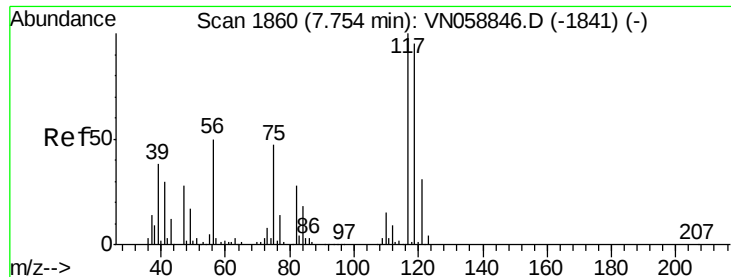
Tot Ion: 75 Resp: 36250
 Ion Ratio Lower Upper
 75 100
 110 8.7 16.3 48.9#
 77 0.0 24.6 36.8#



#37
 Ethyl Acetate
 Concen: 3.236 ug/l
 RT: 6.92 min Scan# 1600
 Delta R.T. 0.01 min
 Lab File: VN058894.D
 Acq: 21 Oct 2019 17:19

Tgt Ion: 43 Resp: 24211
 Ion Ratio Lower Upper
 43 100
 61 14.0 10.5 15.7
 70 10.9 7.6 11.4





#38

Carbon Tetrachloride

Concen: 6.095 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.10 min

Lab File: VN058894.D

Acq: 21 Oct 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7326B

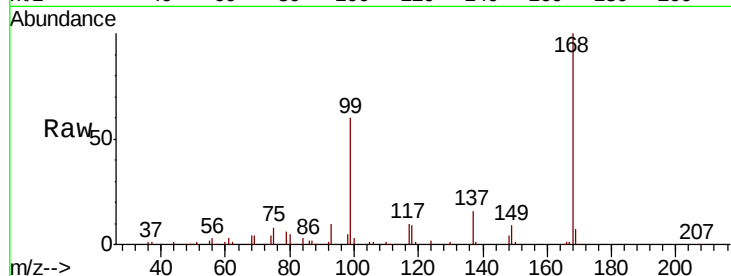
Tot Ion:117 Resp: 43107

Ion Ratio Lower Upper

117 100

119 5.0 75.7 113.5#

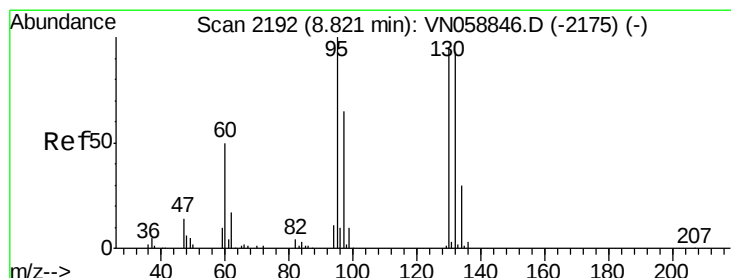
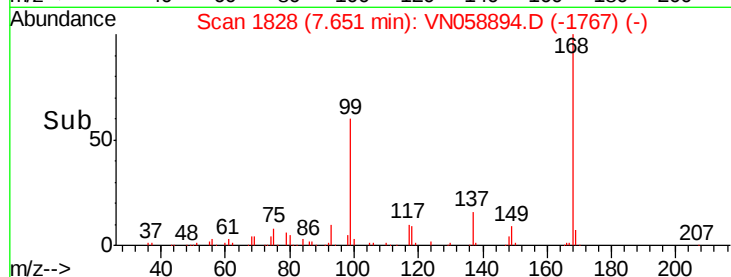
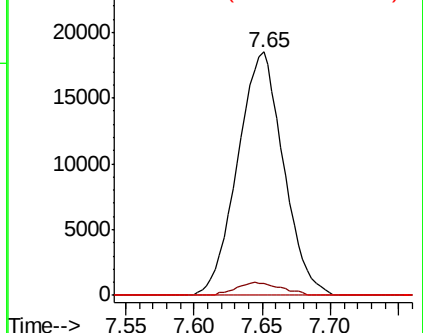
121 0.0 25.0 37.6#



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: 6.666 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058894.D

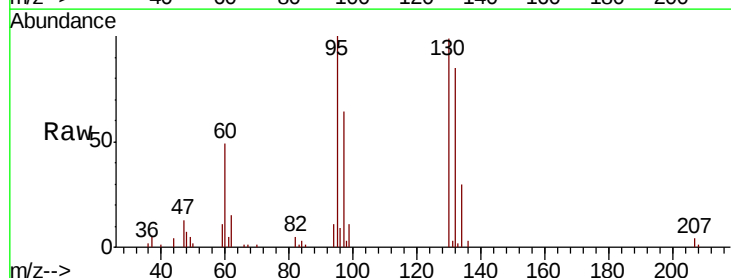
Acq: 21 Oct 2019 17:19

Tgt Ion:130 Resp: 32737

Ion Ratio Lower Upper

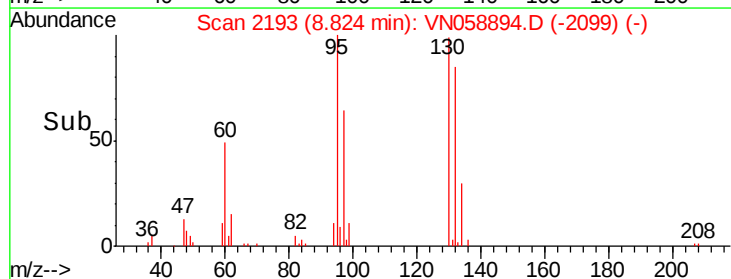
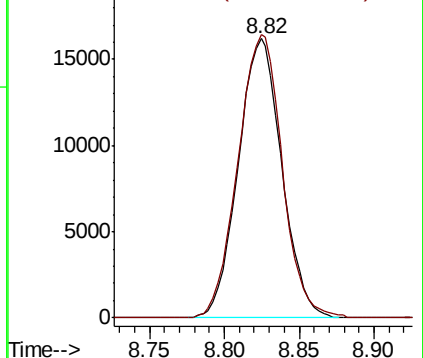
130 100

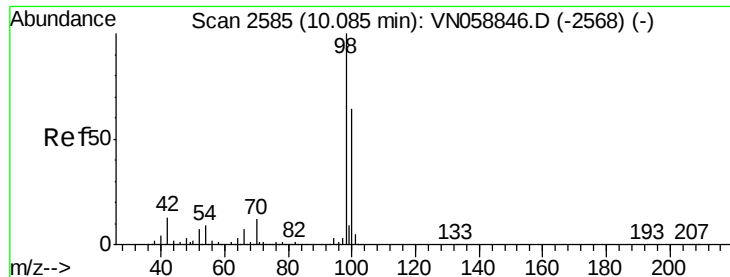
95 101.4 0.0 209.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0





#50

Toluene-d8

Concen: 50.197 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058894.D

Acq: 21 Oct 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

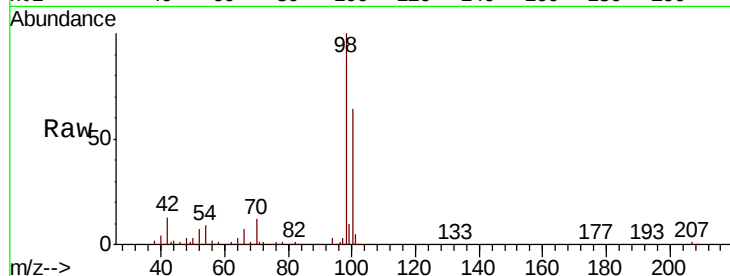
FA19-JBW7326B

Tot Ion: 98 Resp: 859123

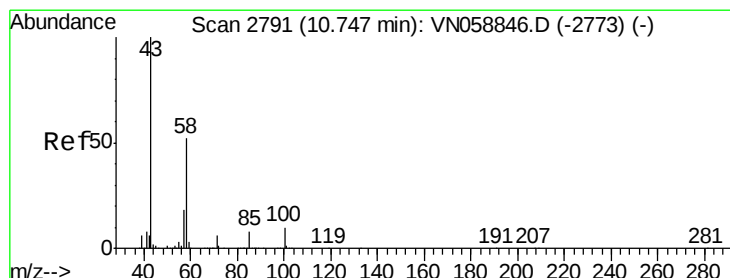
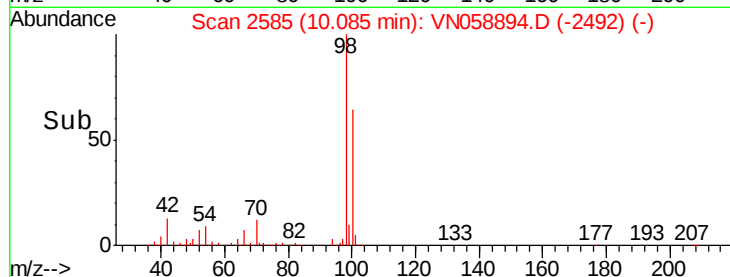
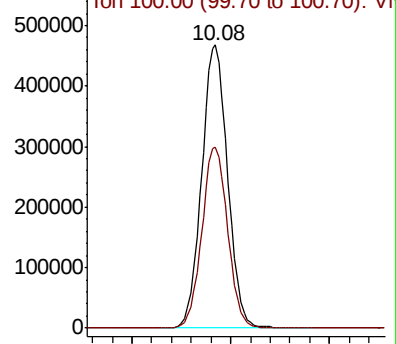
Ion Ratio Lower Upper

98 100

100 63.6 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN058894.D (-2492) (-)



#59

2-Hexanone

Concen: 0.308 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.02 min

Lab File: VN058894.D

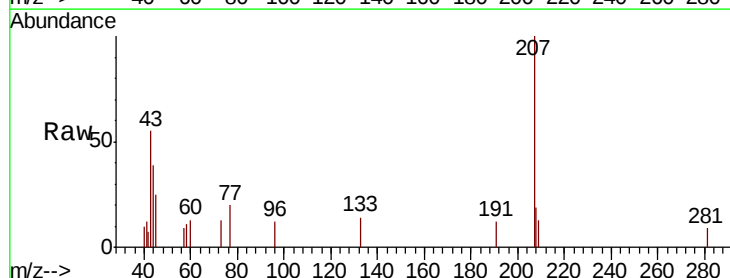
Acq: 21 Oct 2019 17:19

Tgt Ion: 43 Resp: 1668

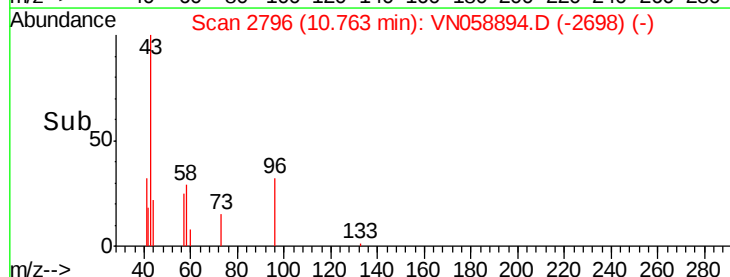
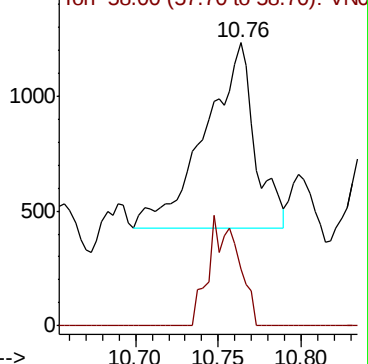
Ion Ratio Lower Upper

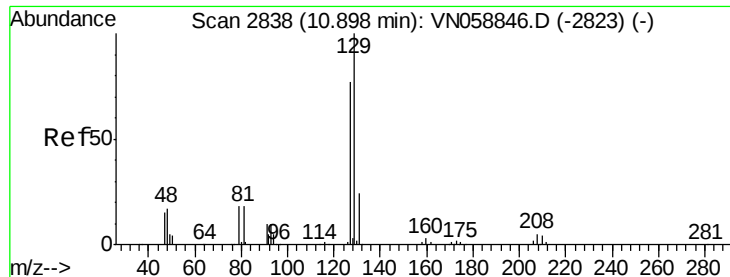
43 100

58 35.4 25.9 77.7



Abundance Ion 43.00 (42.70 to 43.70): VN058894.D (-2698) (-)





#60

Dibromochloromethane

Concen: 0.409 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058894.D

Acq: 21 Oct 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

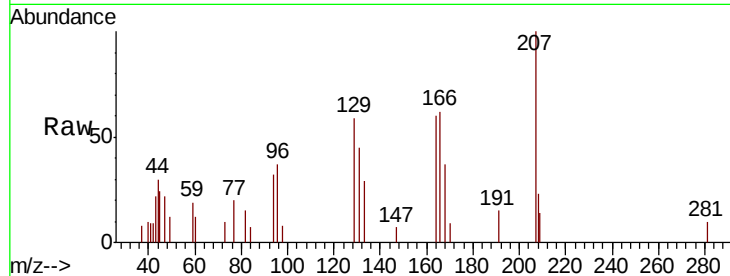
FA19-JBW7326B

Tot Ion:129 Resp: 2166

Ion Ratio Lower Upper

129 100

127 0.0 39.1 117.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

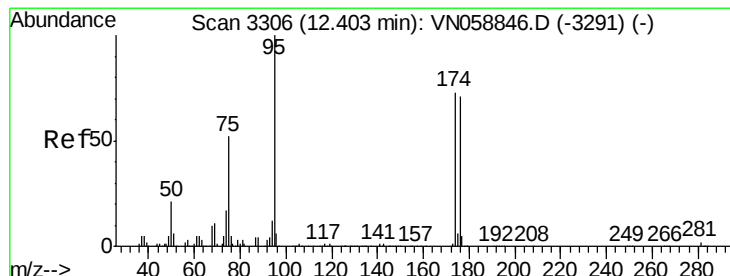
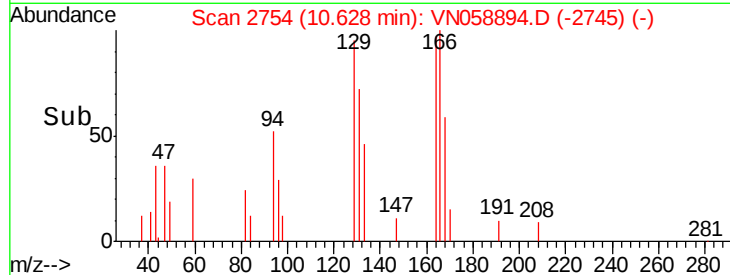
1500

1000

500

0

Time-->



#62

4-Bromofluorobenzene

Concen: 43.907 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058894.D

Acq: 21 Oct 2019 17:19

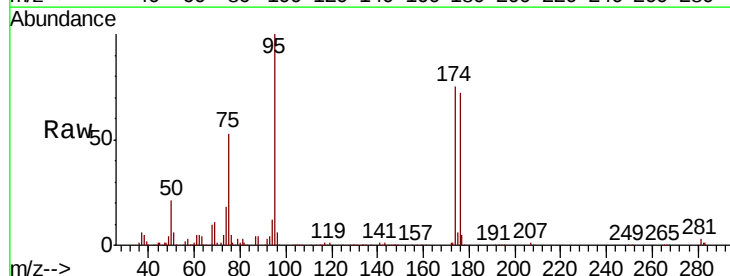
Tgt Ion: 95 Resp: 275962

Ion Ratio Lower Upper

95 100

174 75.4 0.0 147.6

176 73.2 0.0 143.2



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

200000

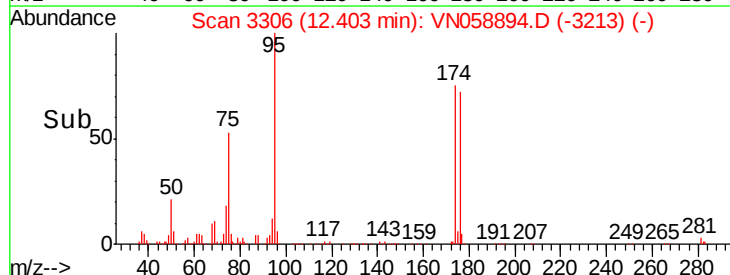
150000

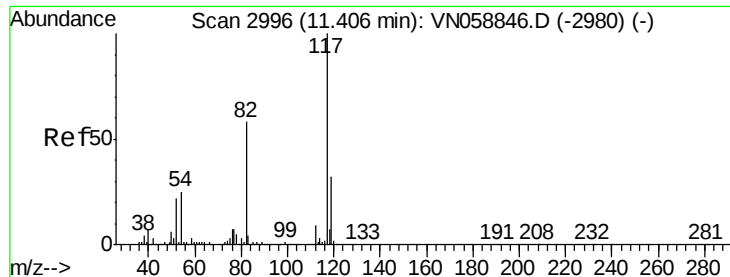
100000

50000

0

Time-->

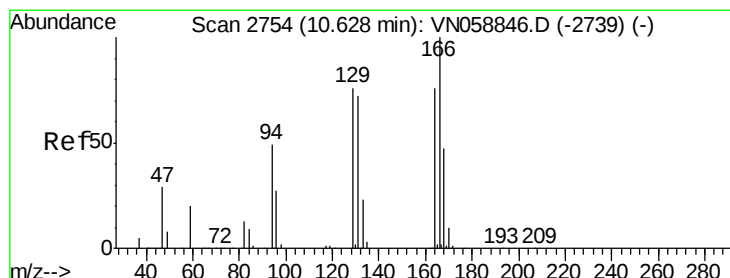
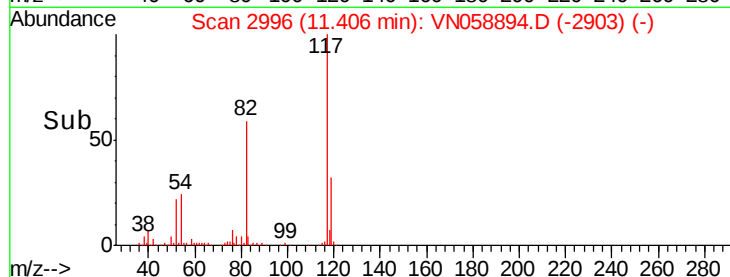
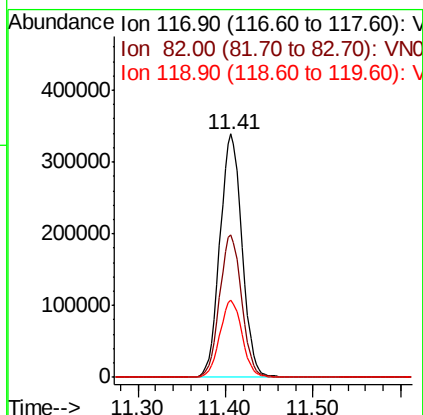
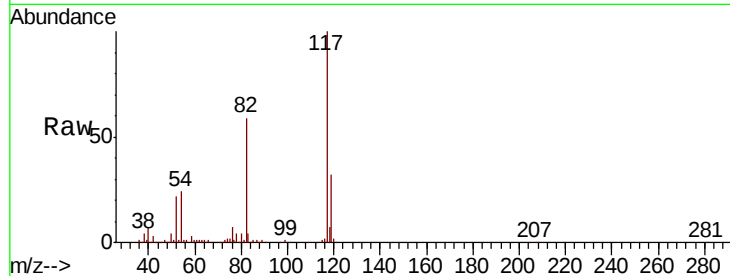




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058894.D
Acq: 21 Oct 2019 17:19

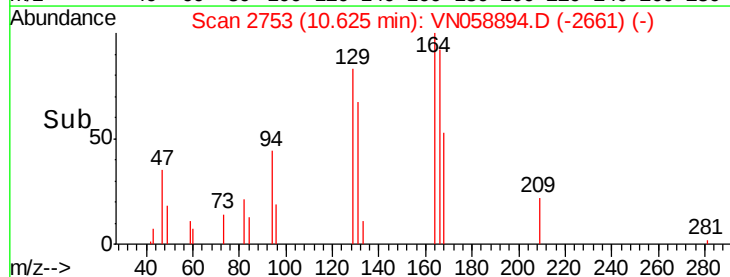
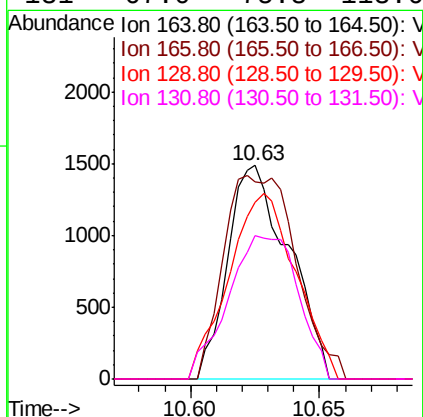
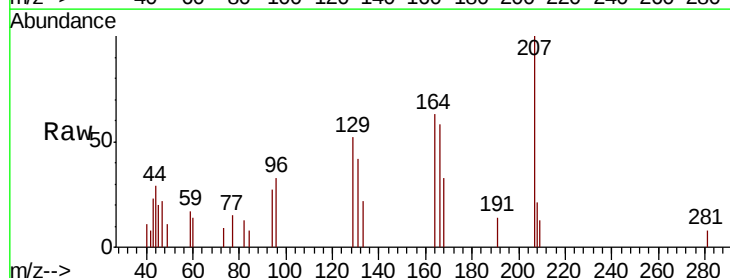
Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7326B

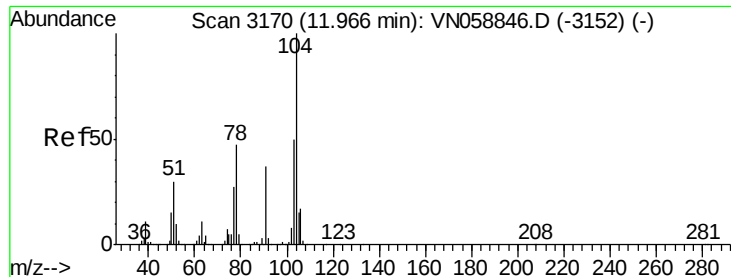
Tot Ion:117 Resp: 593334
Ion Ratio Lower Upper
117 100
82 58.6 46.6 69.8
119 31.8 25.6 38.4



#64
Tetrachloroethene
Concen: 0.591 ug/l
RT: 10.63 min Scan# 2753
Delta R.T. -0.00 min
Lab File: VN058894.D
Acq: 21 Oct 2019 17:19

Tgt Ion:164 Resp: 2455
Ion Ratio Lower Upper
164 100
166 92.4 104.8 157.2#
129 82.9 79.3 118.9
131 67.0 75.8 113.6#





#70

Stvrene

Concen: 1.772 ug/l

RT: 11.97 min Scan# 3170

Delta R.T. 0.00 min

Lab File: VN058894.D

Acq: 21 Oct 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7326B

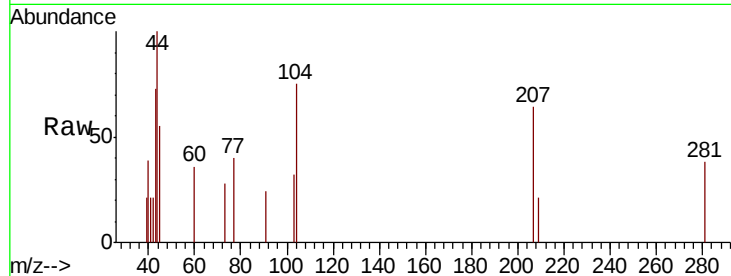
Tot Ion:104 Resp: 833

Ion Ratio Lower Upper

104 100

78 3.6 42.8 64.2#

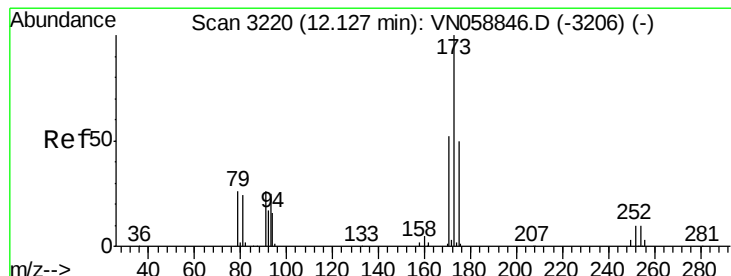
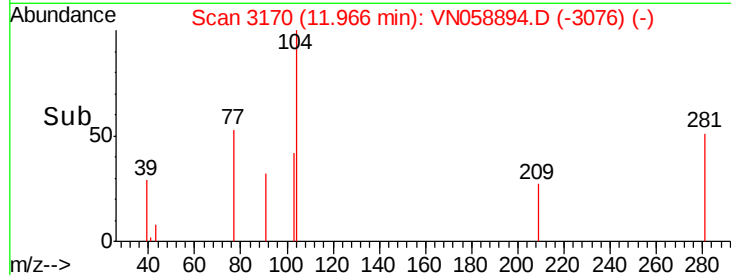
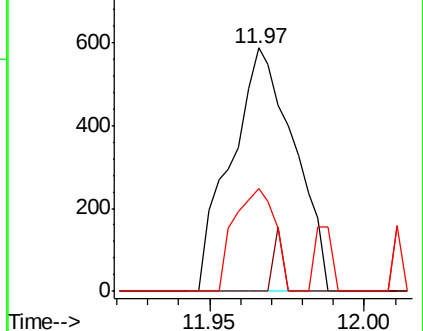
103 27.3 44.3 66.5#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VN

Ion 103.00 (102.70 to 103.70): V



#71

Bromoform

Concen: 0.431 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN058894.D

Acq: 21 Oct 2019 17:19

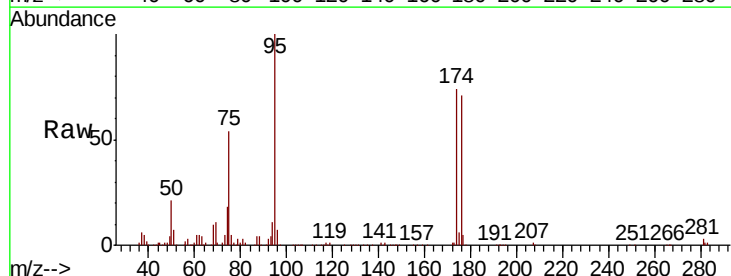
Tgt Ion:173 Resp: 1525

Ion Ratio Lower Upper

173 100

175 824.6 24.7 74.1#

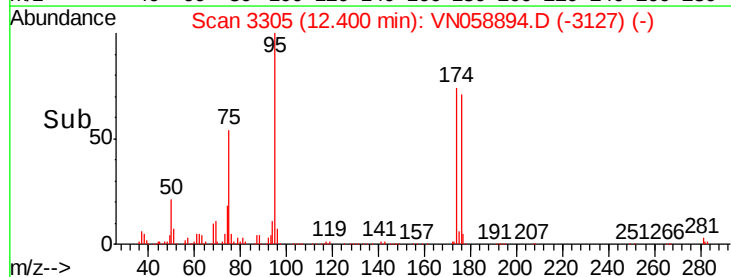
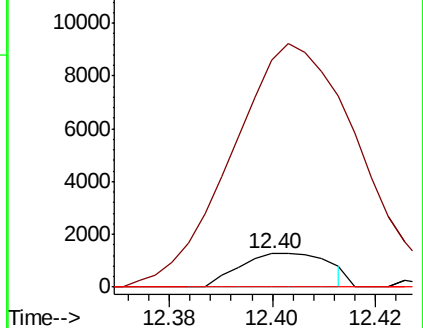
254 0.0 0.0 0.0

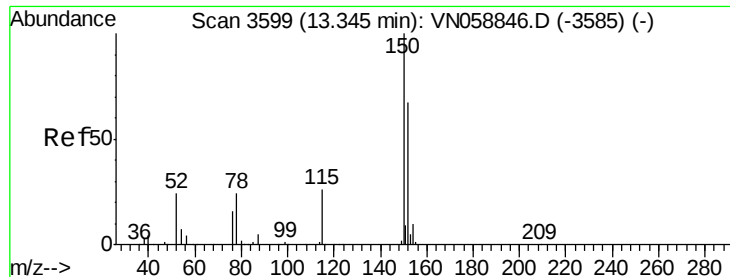


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN058894.D

Acq: 21 Oct 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

FA19-JBW7326B

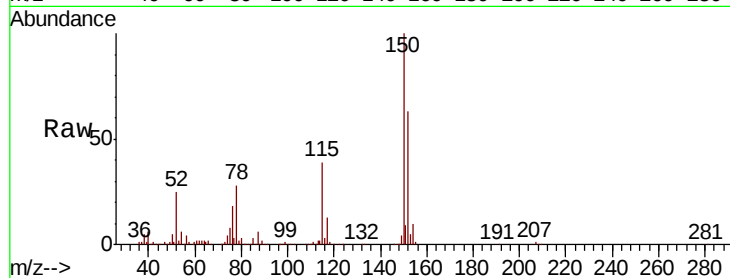
Tot Ion:152 Resp: 217041

Ion Ratio Lower Upper

152 100

115 61.1 30.5 91.5

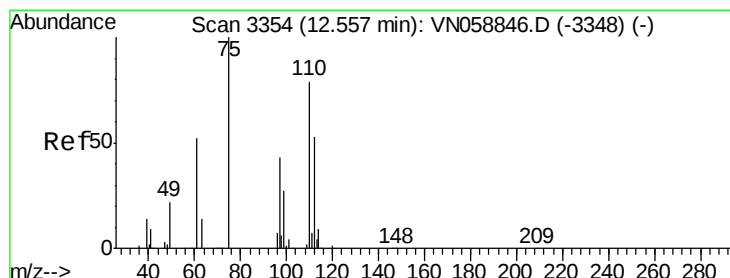
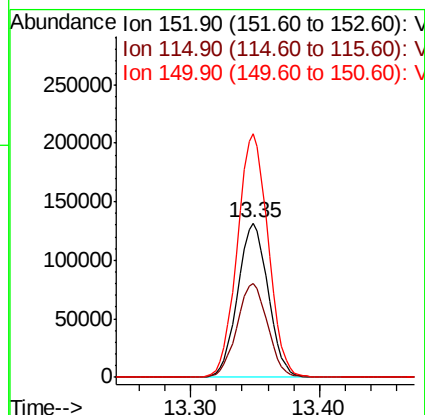
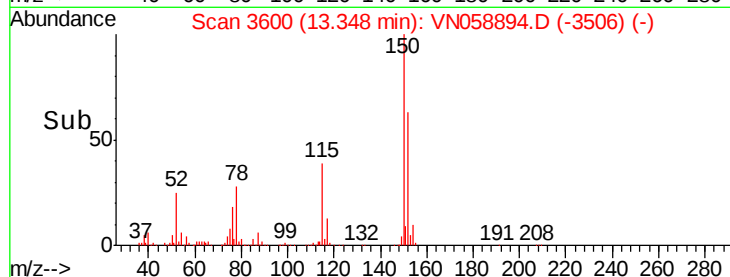
150 159.5 0.0 344.4



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: 29.345 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058894.D

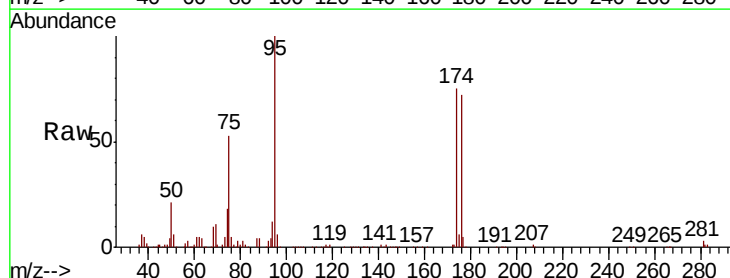
Acq: 21 Oct 2019 17:19

Tgt Ion: 75 Resp: 147612

Ion Ratio Lower Upper

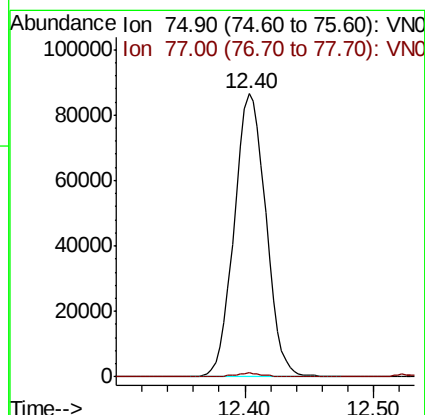
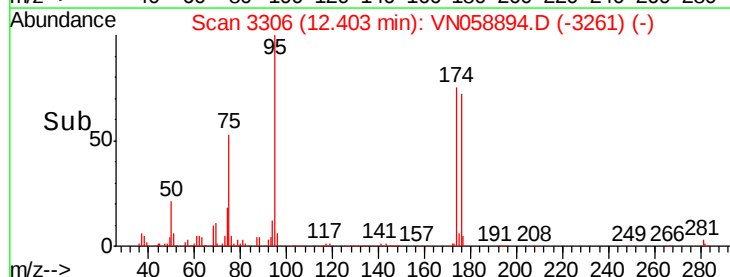
75 100

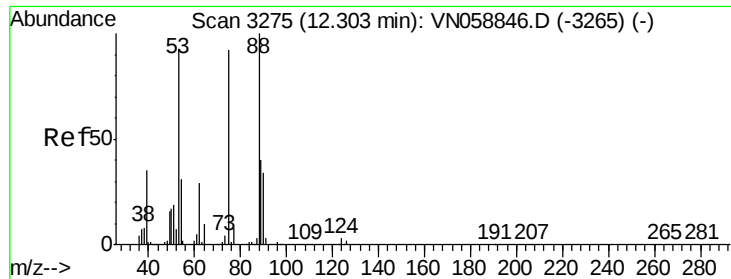
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

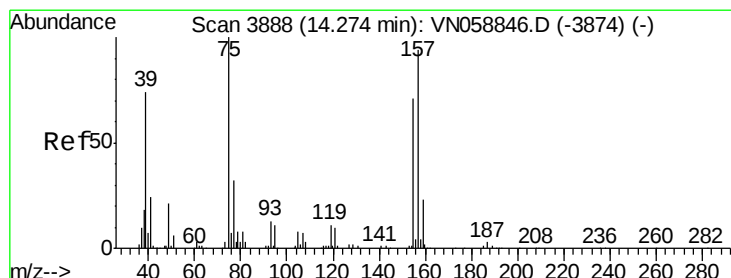
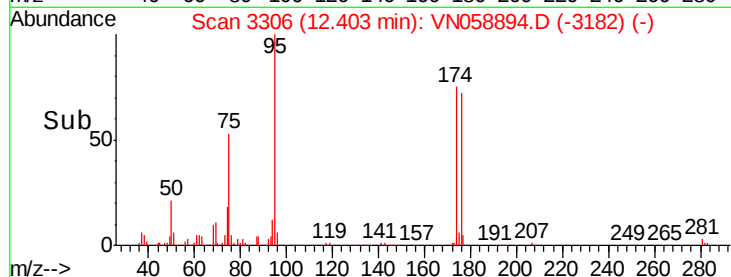
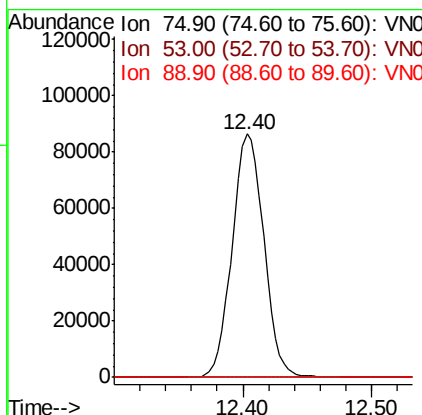
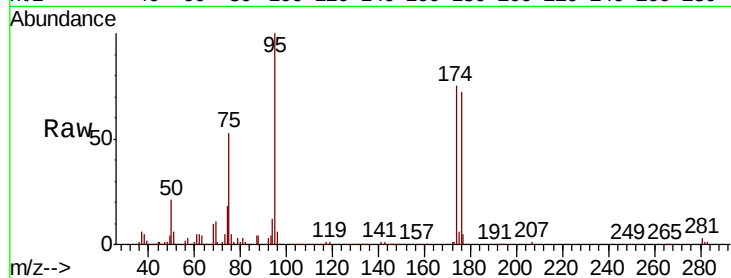




#81
trans-1,4-Dichloro-2-butene
Concen: 76.447 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN058894.D
Acq: 21 Oct 2019 17:19

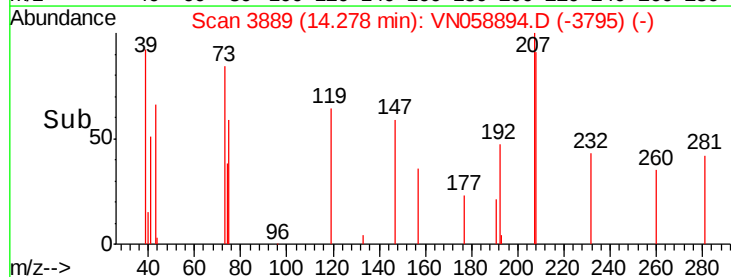
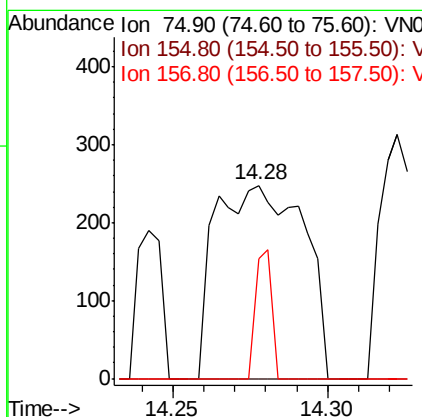
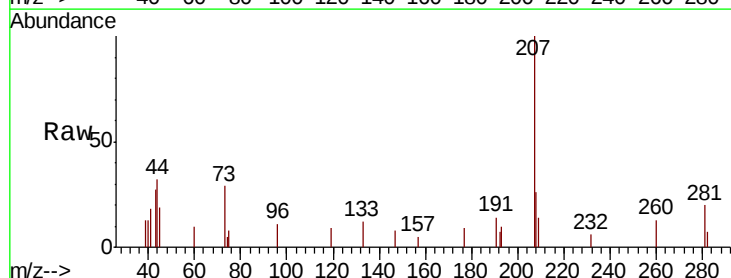
Instrument :
MSVOA_N
ClientSampleId :
FA19-JBW7326B

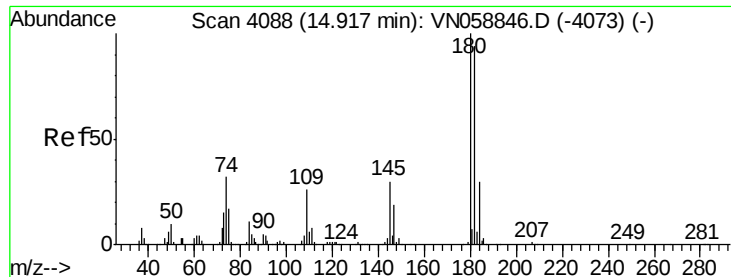
Tot Ion: 75 Resp: 147612
Ion Ratio Lower Upper
75 100
53 0.0 78.6 118.0#
89 0.0 35.4 53.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.392 ug/l
RT: 14.28 min Scan# 3889
Delta R.T. 0.00 min
Lab File: VN058894.D
Acq: 21 Oct 2019 17:19

Tgt Ion: 75 Resp: 495
Ion Ratio Lower Upper
75 100
155 0.0 35.6 106.8#
157 12.3 47.4 142.2#

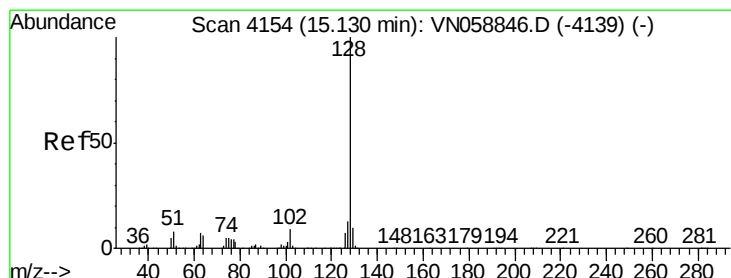
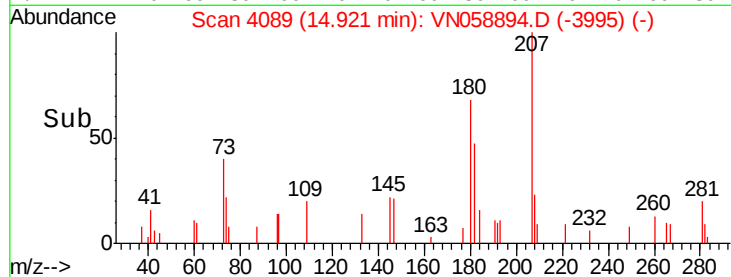
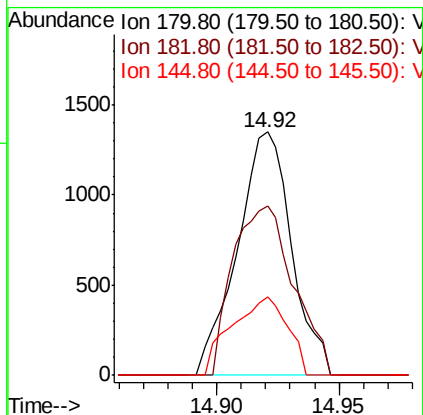
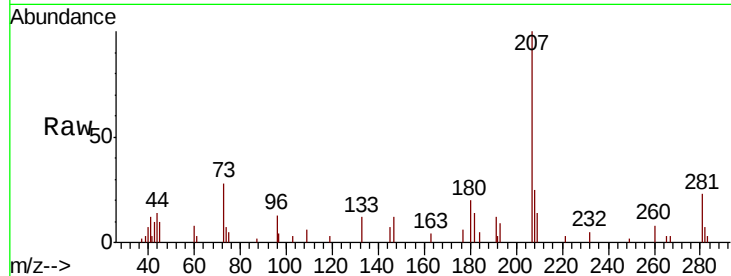




#93
 1,2,4-Trichlorobenzene
 Concen: 2.978 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN058894.D
 Acq: 21 Oct 2019 17:19

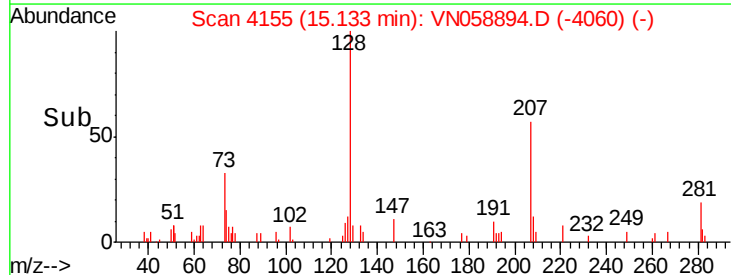
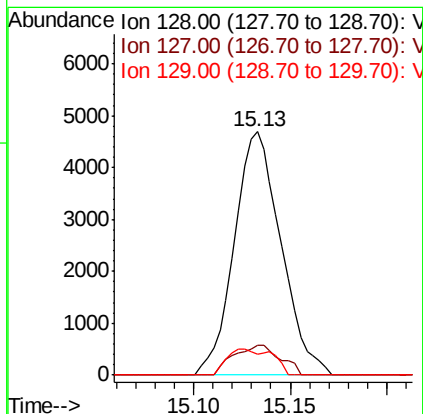
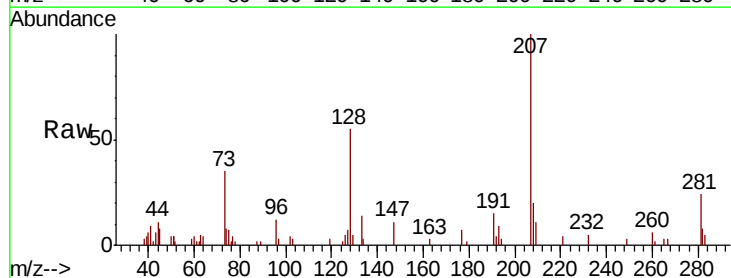
Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JBW7326B

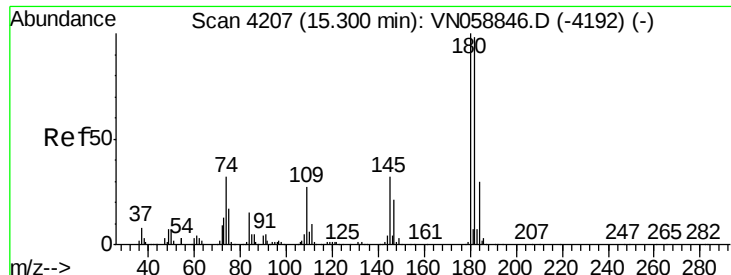
Tot Ion:180 Resp: 2082
 Ion Ratio Lower Upper
 180 100
 182 78.1 47.3 142.0
 145 33.3 15.3 45.8



#95
 Naphthalene
 Concen: 2.830 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN058894.D
 Acq: 21 Oct 2019 17:19

Tgt Ion:128 Resp: 7870
 Ion Ratio Lower Upper
 128 100
 127 12.3 10.2 15.2
 129 6.7 8.4 12.6#

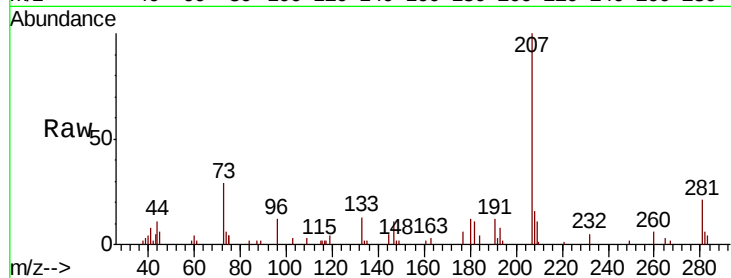




#96
 1,2,3-Trichlorobenzene
 Concen: 2.938 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. -0.00 min
 Lab File: VN058894.D
 Acq: 21 Oct 2019 17:19

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JBW7326B

Tot Ion	Ratio	Lower	Upper
180	100		
182	87.9	47.9	143.7
145	34.2	15.9	47.7



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

