

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101319\
 Data File : VN058718.D
 Acq On : 11 Oct 2019 21:30
 Operator : JC/SP
 Sample : K5336-04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FA19-JMW6001

Quant Time: Oct 12 00:15:14 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	422099	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	661634	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	585943	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	232529	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	289359	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	
35) Dibromofluoromethane	7.57	113	207329	50.73	ug/l	0.00
Spiked Amount			Recovery	=	101.46%	
50) Toluene-d8	10.08	98	806131	49.33	ug/l	0.00
Spiked Amount			Recovery	=	98.66%	
62) 4-Bromofluorobenzene	12.41	95	262341	42.41	ug/l	0.00
Spiked Amount			Recovery	=	84.82%	

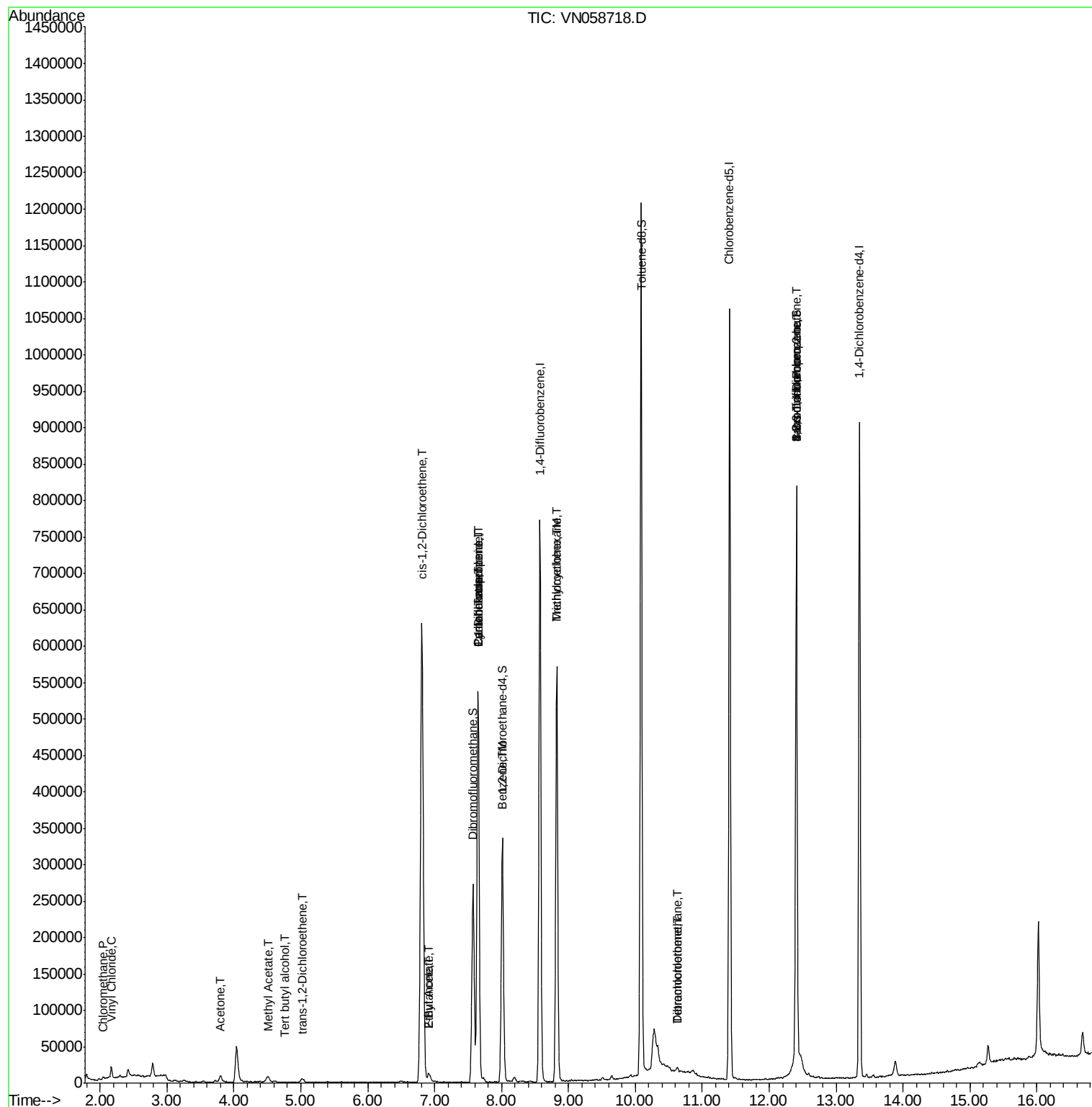
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	2586	0.414	ug/l	94
4) Vinyl Chloride	2.17	62	9233	1.483	ug/l	94
11) Tert butyl alcohol	4.76	59	467	0.488	ug/l #	72
16) Acetone	3.81	43	15179	6.205	ug/l	97
18) Methyl Acetate	4.51	43	6706	1.081	ug/l #	54
21) trans-1,2-Dichloroethene	5.02	96	2629	0.580	ug/l #	81
25) 2-Butanone	6.91	43	16808	4.753	ug/l #	50
27) cis-1,2-Dichloroethene	6.81	96	411515	77.827	ug/l	87
31) Cyclohexane	7.65	56	10389	1.199	ug/l #	10
36) 1,1-Dichloropropene	7.65	75	34025	5.086	ug/l #	51
37) Ethyl Acetate	6.91	43	16808	2.484	ug/l #	74
38) Carbon Tetrachloride	7.65	117	42028	6.446	ug/l #	16
39) Methylcyclohexane	8.82	83	2634	0.339	ug/l #	1
40) Benzene	8.03	78	4613	0.240	ug/l	92
44) Trichloroethene	8.82	130	202261	42.393	ug/l	97
60) Dibromochloromethane	10.63	129	1082	0.218	ug/l #	11
64) Tetrachloroethene	10.63	164	1265	0.308	ug/l #	79
71) Bromoform	12.41	173	1566	0.486	ug/l #	1
76) 1,2,3-Trichloropropane	12.41	75	143881	28.206	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	143881	75.554	ug/l #	11

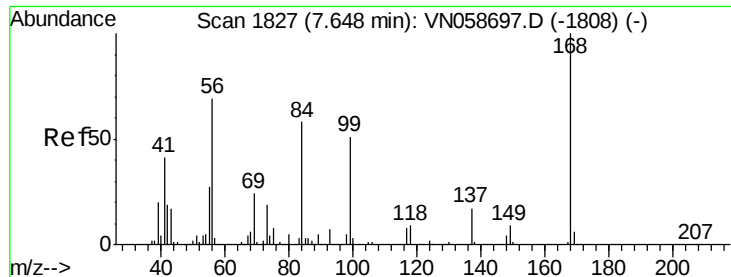
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Sat Oct 12 00:00:30 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: VN058718.D

Acq: 11 Oct 2019 21:30

Instrument :

MSVOA_N

ClientSampleId :

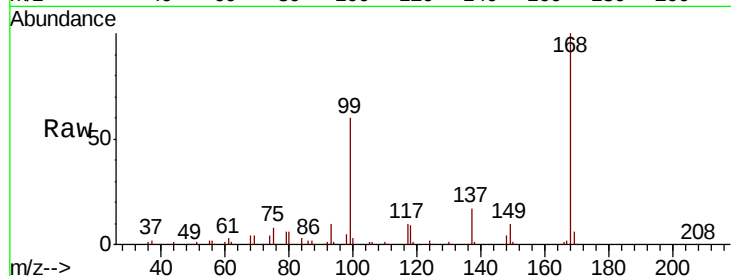
FA19-JMW6001

Tot Ion:168 Resp: 422099

Ion Ratio Lower Upper

168 100

99 59.7 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

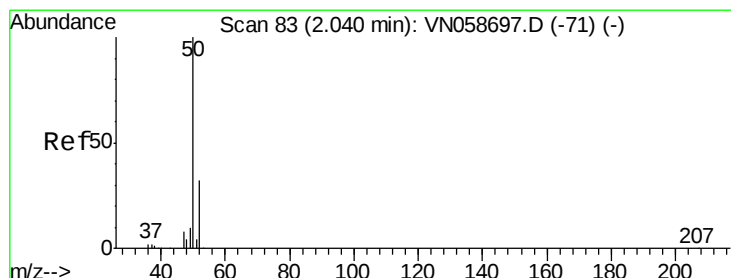
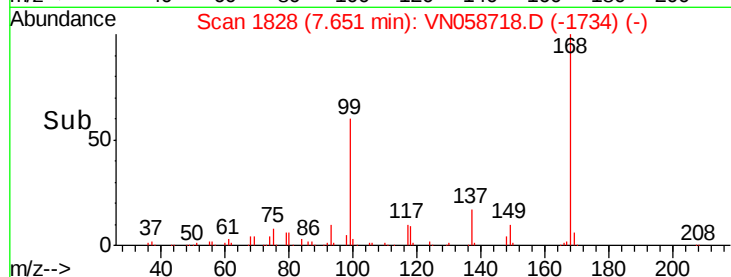
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80



#3

Chloromethane

Concen: 0.414 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058718.D

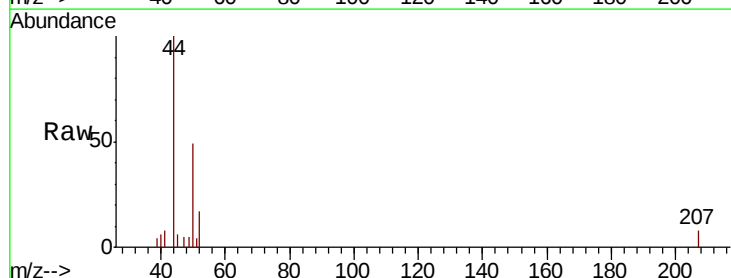
Acq: 11 Oct 2019 21:30

Tgt Ion: 50 Resp: 2586

Ion Ratio Lower Upper

50 100

52 35.5 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

2000

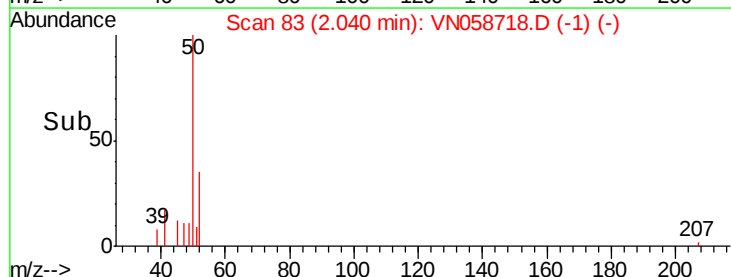
1500

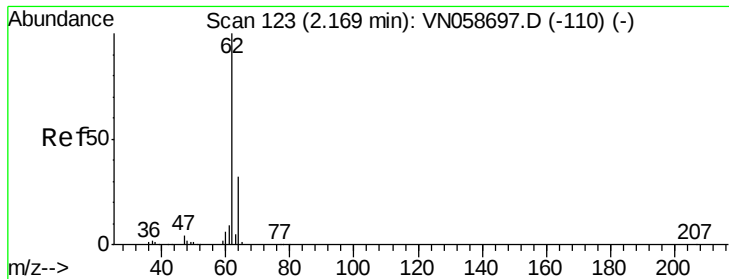
1000

500

0

Time--> 2.00 2.05 2.10





#4

Vinyl Chloride

Concen: 1.483 ug/l

RT: 2.17 min Scan# 124

Delta R.T. 0.00 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

Instrument :

MSVOA_N

ClientSampled :

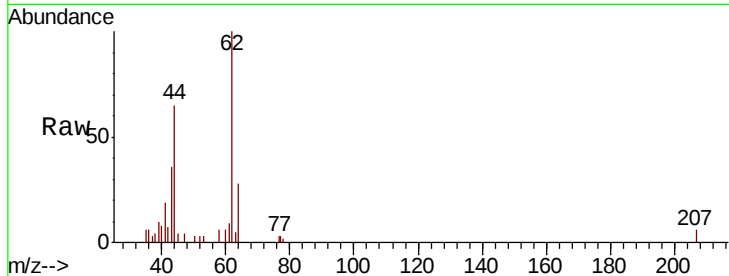
FA19-JMW6001

Tot Ion: 62 Resp: 9233

Ion Ratio Lower Upper

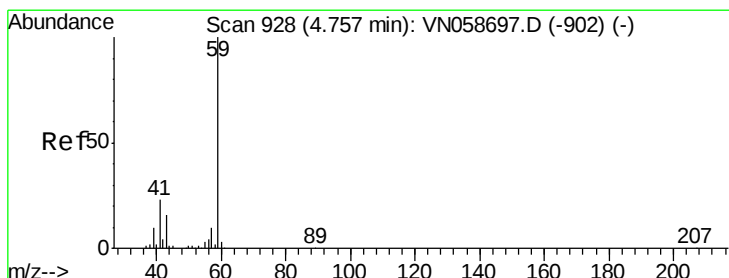
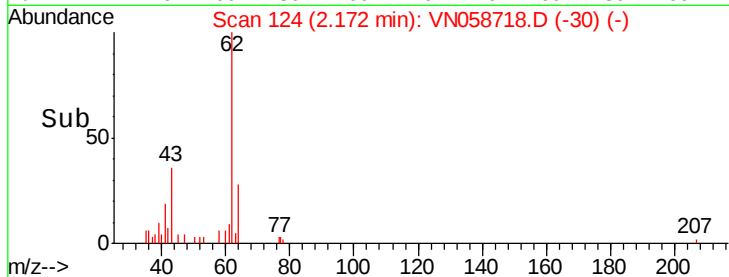
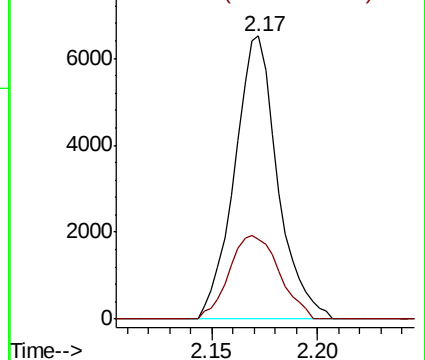
62 100

64 28.4 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0



#11

Tert butyl alcohol

Concen: 0.488 ug/l

RT: 4.76 min Scan# 928

Delta R.T. 0.00 min

Lab File: VN058718.D

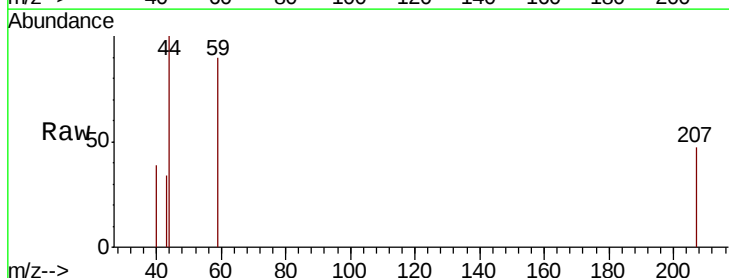
Acq: 11 Oct 2019 21:30

Tgt Ion: 59 Resp: 467

Ion Ratio Lower Upper

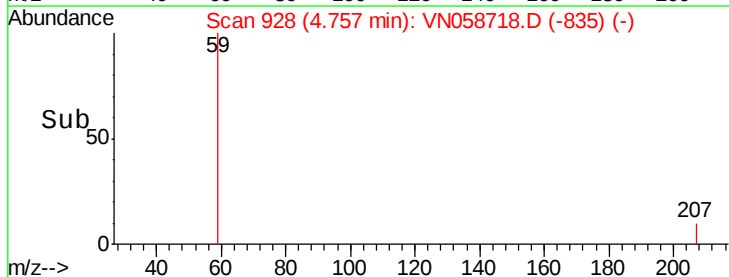
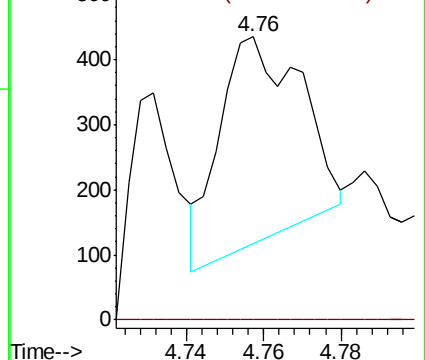
59 100

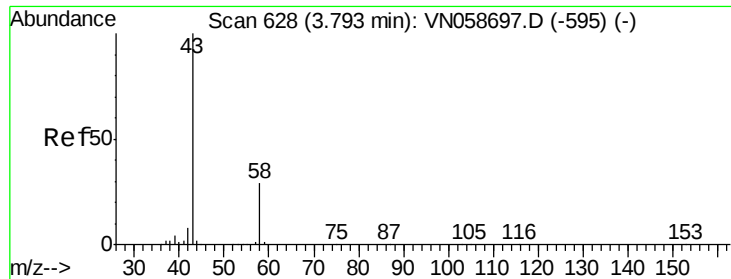
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 6.205 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

Instrument :

MSVOA_N

ClientSampleId :

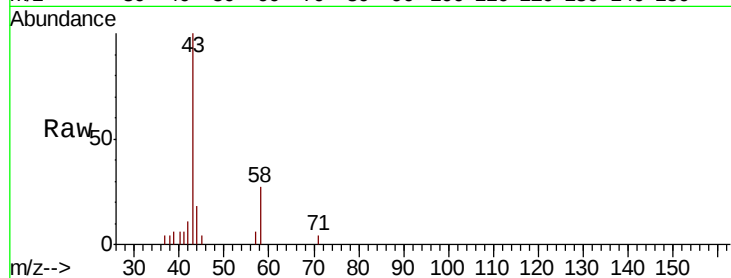
FA19-JMW6001

Tot Ion: 43 Resp: 15179

Ion Ratio Lower Upper

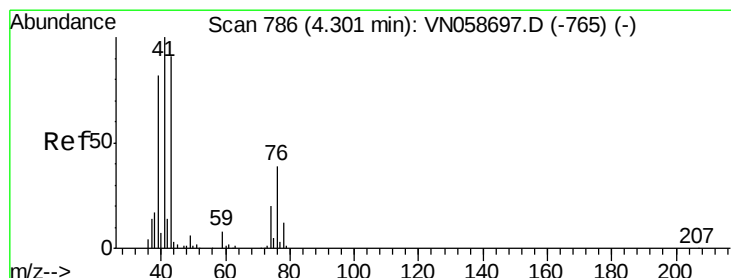
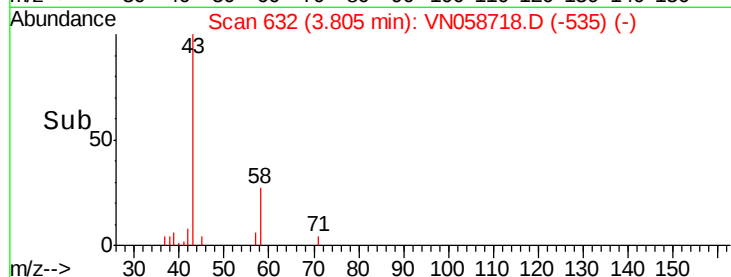
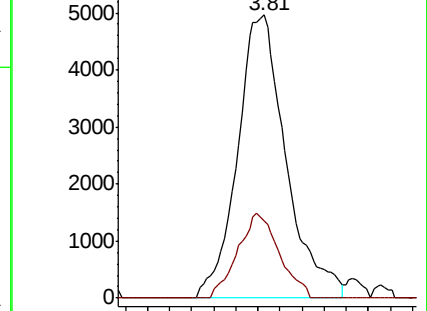
43 100

58 27.4 23.3 34.9



Abundance Ion 43.00 (42.70 to 43.70): VN058718.D (-632) (-)

Ion 58.00 (57.70 to 58.70): VN058718.D (-632) (-)



#18

Methyl Acetate

Concen: 1.081 ug/l

RT: 4.51 min Scan# 851

Delta R.T. 0.21 min

Lab File: VN058718.D

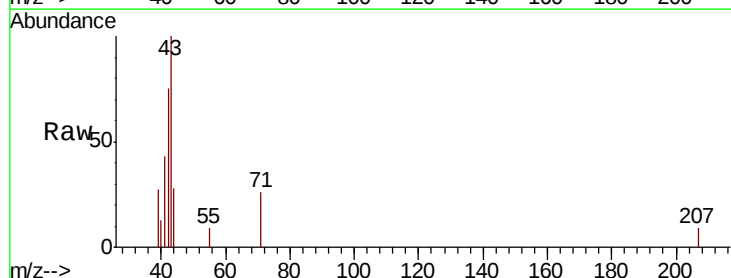
Acq: 11 Oct 2019 21:30

Tgt Ion: 43 Resp: 6706

Ion Ratio Lower Upper

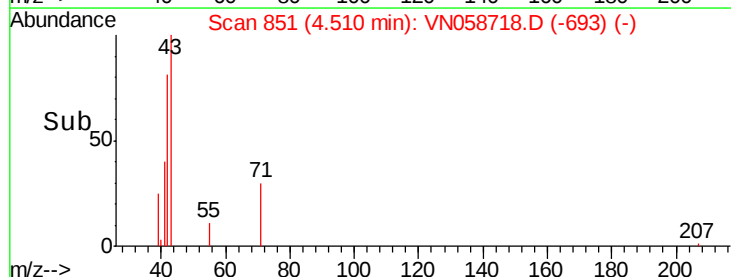
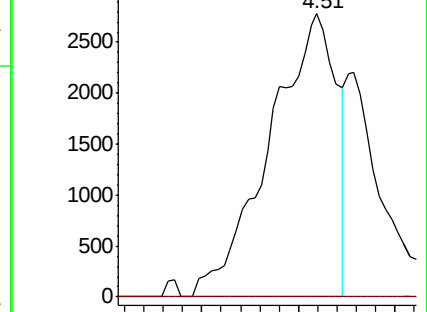
43 100

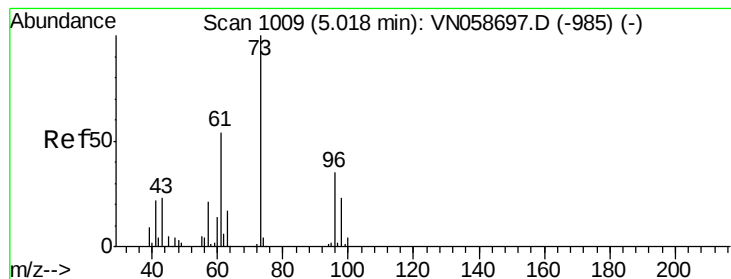
74 0.0 17.2 25.8#



Abundance Ion 43.00 (42.70 to 43.70): VN058718.D (-851) (-)

Ion 74.00 (73.70 to 74.70): VN058718.D (-851) (-)





#21

trans-1,2-Dichloroethene

Concen: 0.580 ug/l

RT: 5.02 min Scan# 1010

Delta R.T. 0.00 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

Instrument :

MSVOA_N

ClientSampleId :

FA19-JMW6001

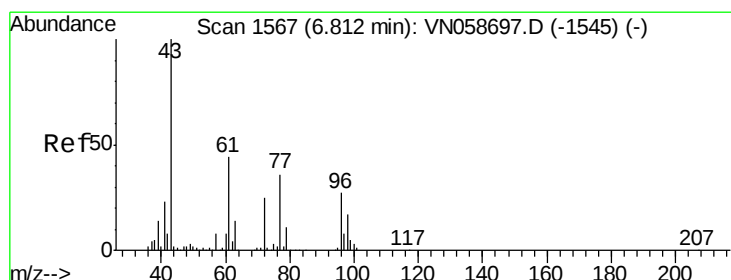
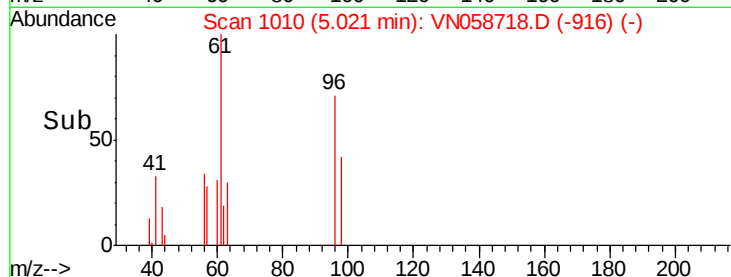
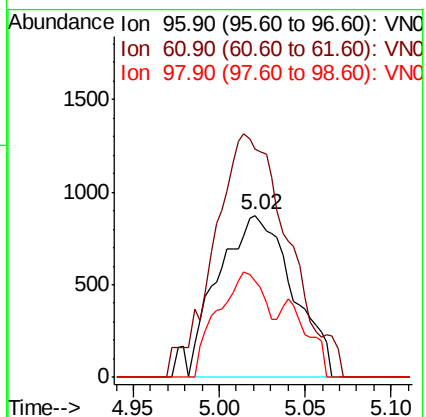
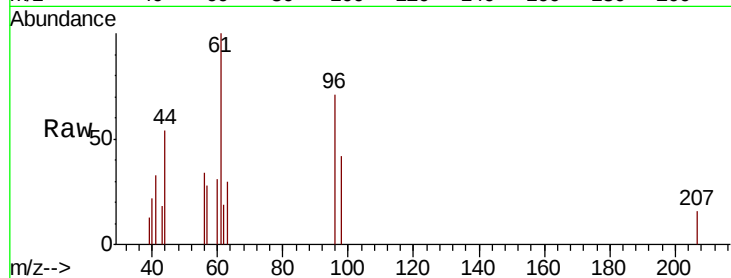
Tot Ion: 96 Resp: 2629

Ion Ratio Lower Upper

96 100

61 122.7 123.6 185.4#

98 59.4 52.1 78.1



#25

2-Butanone

Concen: 4.753 ug/l

RT: 6.91 min Scan# 1598

Delta R.T. 0.10 min

Lab File: VN058718.D

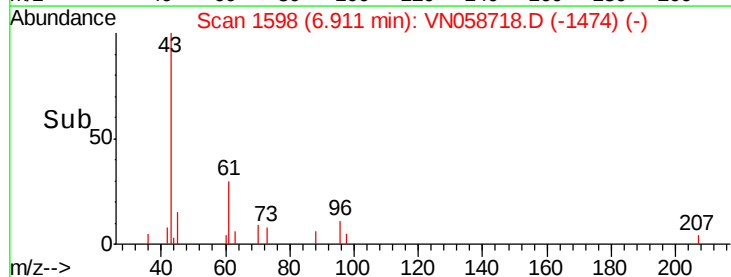
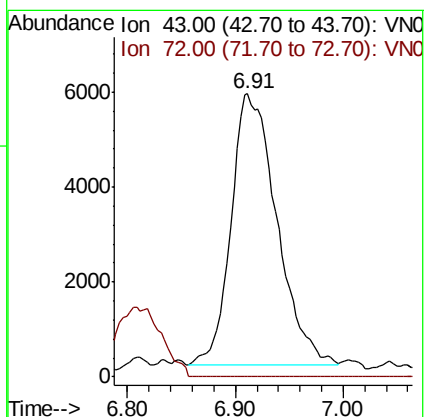
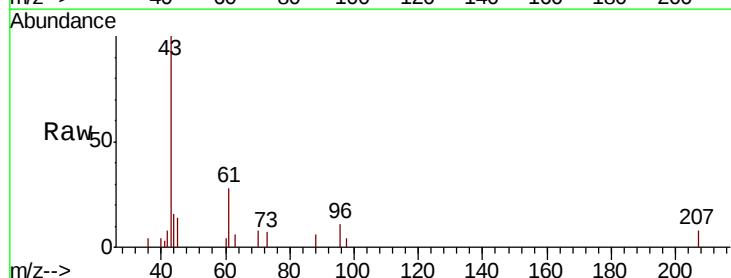
Acq: 11 Oct 2019 21:30

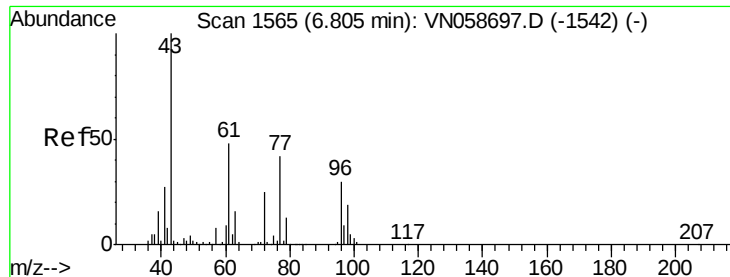
Tgt Ion: 43 Resp: 16808

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.2#





#27

cis-1,2-Dichloroethene

Concen: 77.827 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. 0.00 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

Instrument :

MSVOA_N

ClientSampleId :

FA19-JMW6001

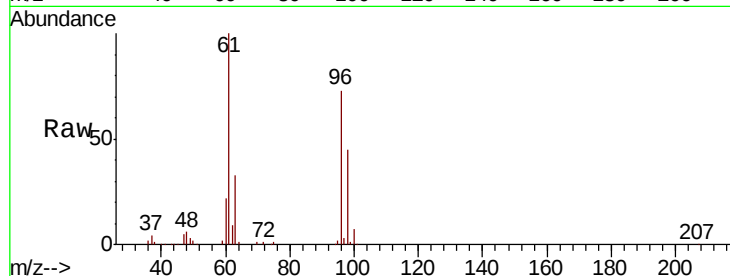
Tot Ion: 96 Resp: 411515

Ion Ratio Lower Upper

96 100

61 138.4 0.0 324.8

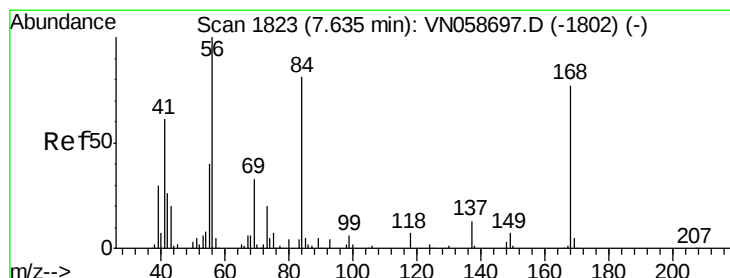
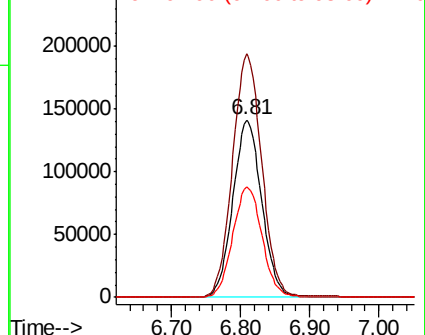
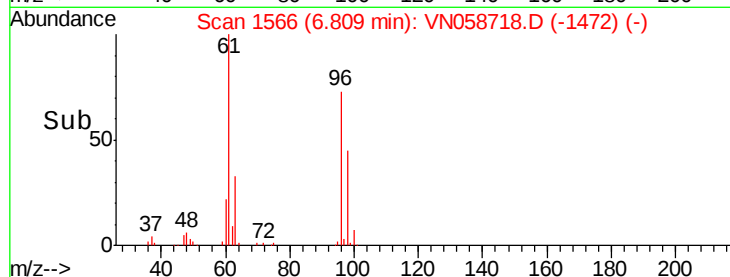
98 63.2 0.0 129.2



Abundance Ion 95.90 (95.60 to 96.60): VN058718.D (-1472) (-)

Ion 60.90 (60.60 to 61.60): VN058718.D (-1472) (-)

Ion 97.90 (97.60 to 98.60): VN058718.D (-1472) (-)



#31

Cyclohexane

Concen: 1.199 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.02 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

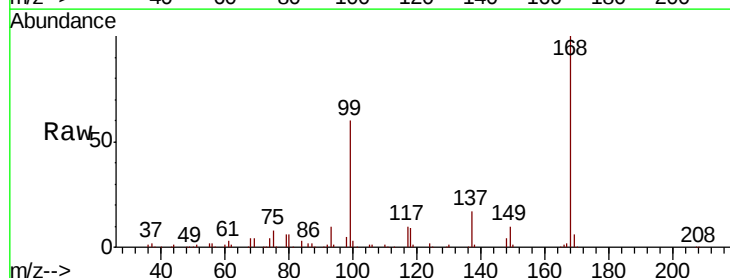
Tgt Ion: 56 Resp: 10389

Ion Ratio Lower Upper

56 100

69 162.7 26.2 39.4#

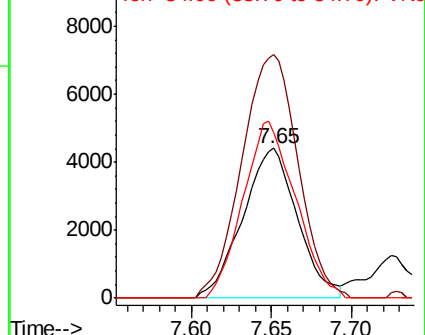
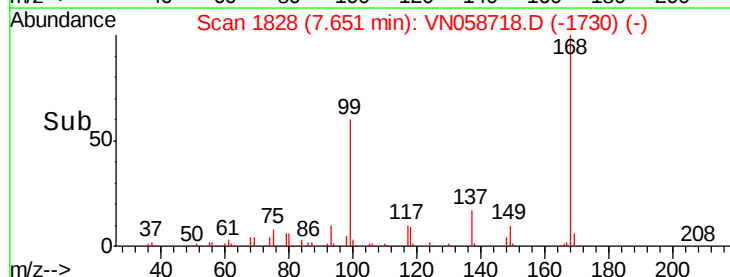
84 110.6 64.9 97.3#

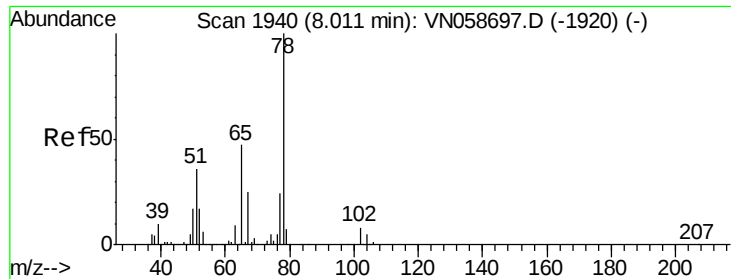


Abundance Ion 56.00 (55.70 to 56.70): VN058718.D (-1730) (-)

Ion 69.00 (68.70 to 69.70): VN058718.D (-1730) (-)

Ion 84.00 (83.70 to 84.70): VN058718.D (-1730) (-)

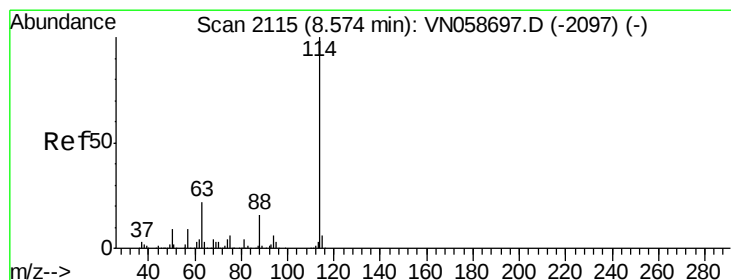
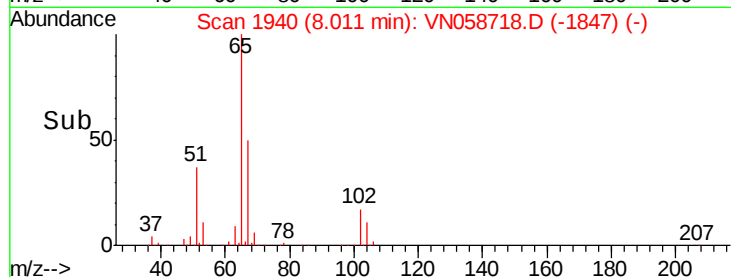
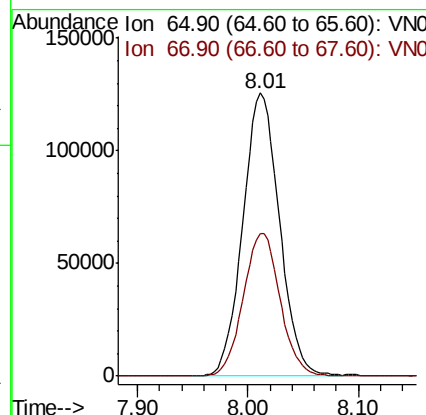
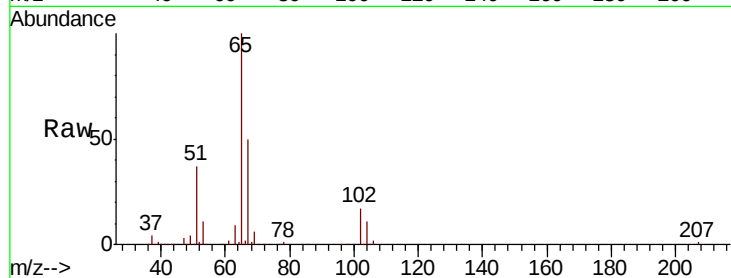




#33
 1,2-Dichloroethane-d4
 Concen: 48.967 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN058718.D
 Acq: 11 Oct 2019 21:30

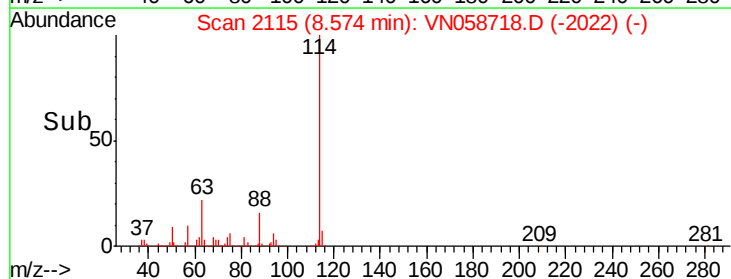
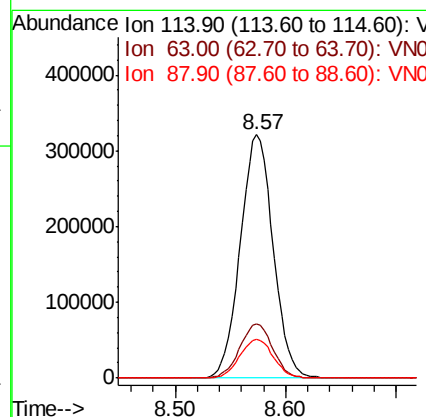
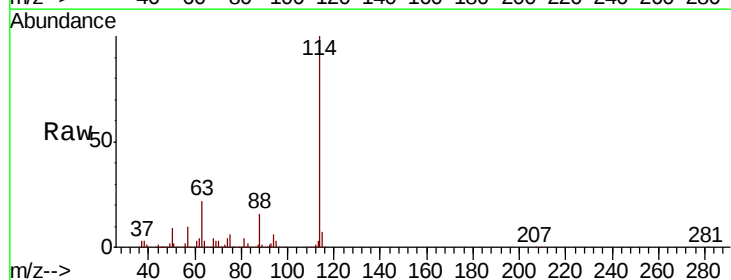
Instrument :
 MSVOA_N
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 FA19-JMW6001

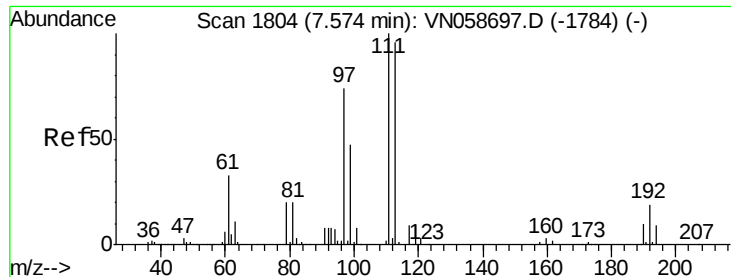
Tot Ion: 65 Resp: 289359
 Ion Ratio Lower Upper
 65 100
 67 50.8 0.0 103.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN058718.D
 Acq: 11 Oct 2019 21:30

Tgt Ion: 114 Resp: 661634
 Ion Ratio Lower Upper
 114 100
 63 22.4 0.0 43.8
 88 15.8 0.0 32.0

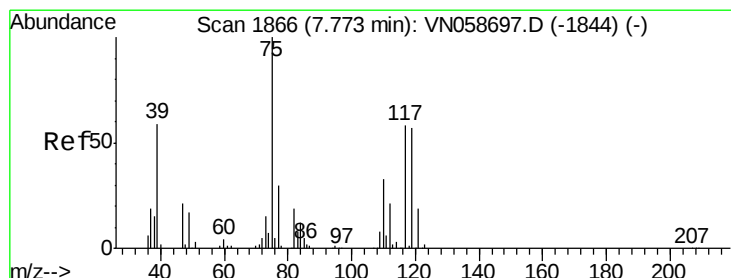
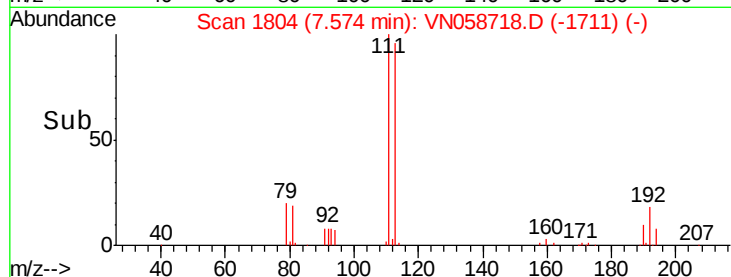
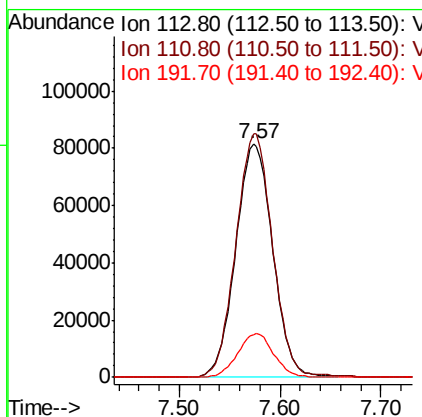
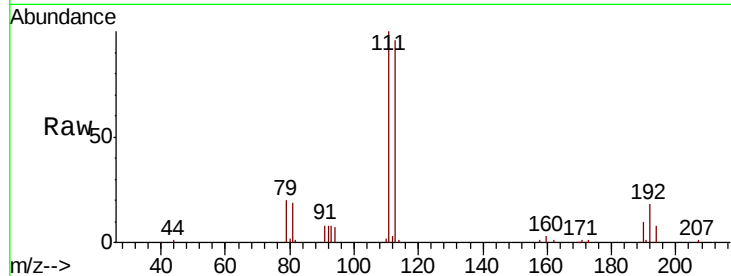




#35
Dibromofluoromethane
Concen: 50.732 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN058718.D
Acq: 11 Oct 2019 21:30

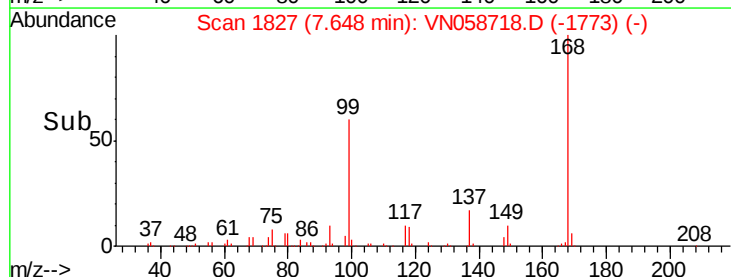
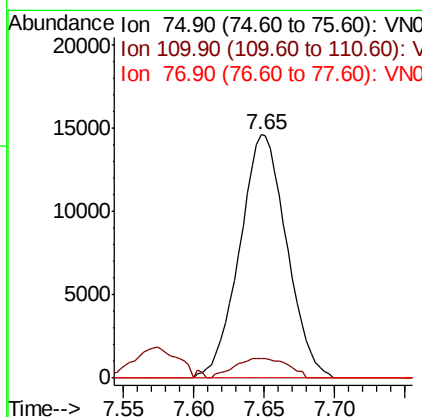
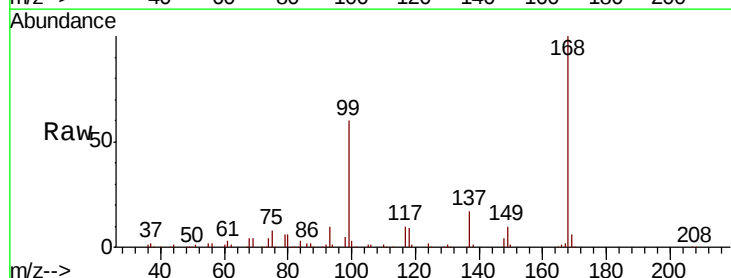
Instrument :
MSVOA_N
ClientSampleId :
FA19-JMW6001

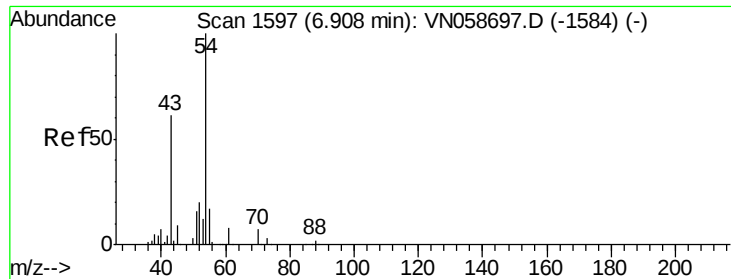
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.3	123.5
192	18.3	15.0	22.6



#36
1,1-Dichloropropene
Concen: 5.086 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.13 min
Lab File: VN058718.D
Acq: 11 Oct 2019 21:30

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.1	16.6	49.8#
77	0.0	24.6	37.0#

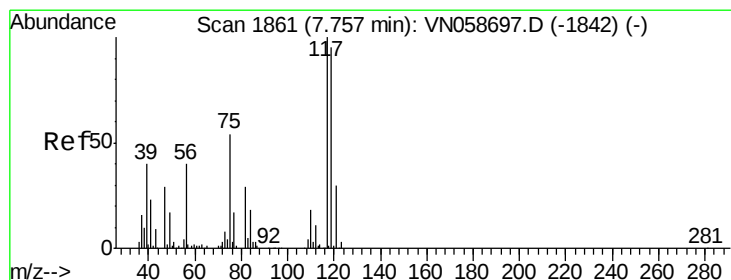
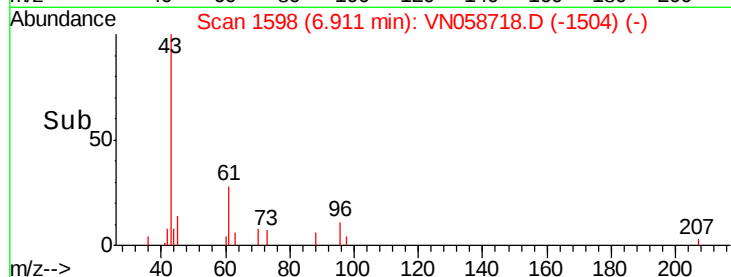
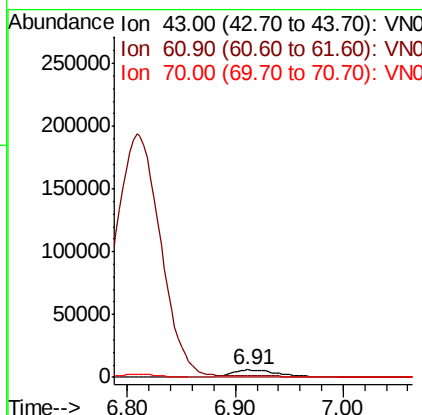
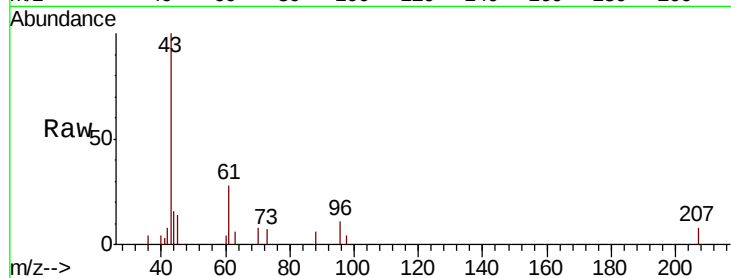




#37
Ethyl Acetate
Concen: 2.484 ug/l
RT: 6.91 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VN058718.D
Acq: 11 Oct 2019 21:30

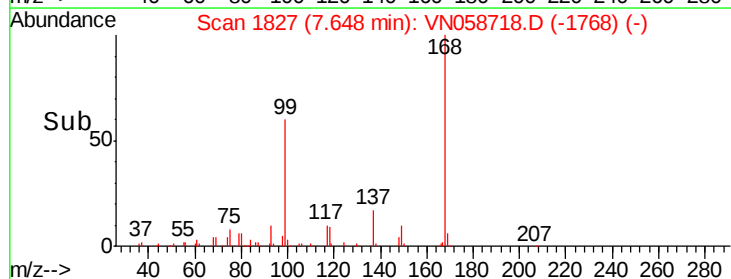
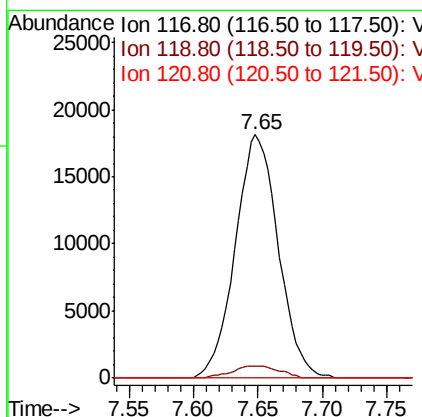
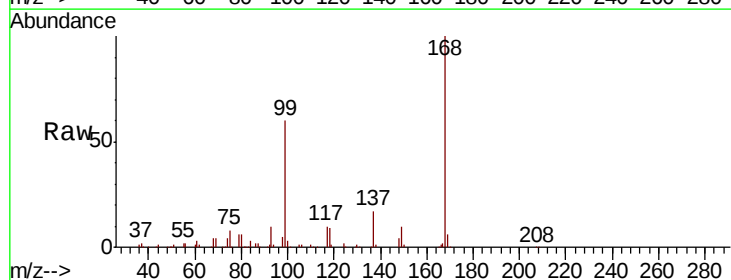
Instrument :
MSVOA_N
ClientSampled :
FA19-JMW6001

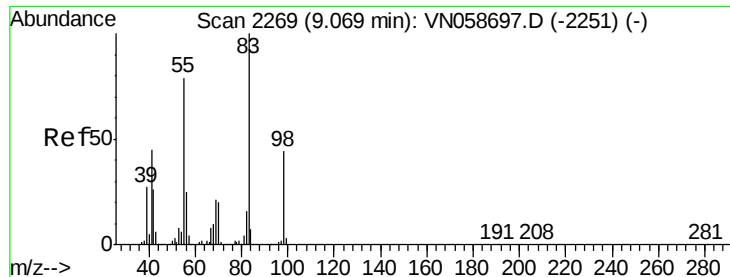
Tot Ion: 43 Resp: 16808
Ion Ratio Lower Upper
43 100
61 0.0 11.3 16.9#
70 4.8 7.2 10.8#



#38
Carbon Tetrachloride
Concen: 6.446 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.11 min
Lab File: VN058718.D
Acq: 11 Oct 2019 21:30

Tgt Ion: 117 Resp: 42028
Ion Ratio Lower Upper
117 100
119 5.0 75.7 113.5#
121 0.0 23.9 35.9#

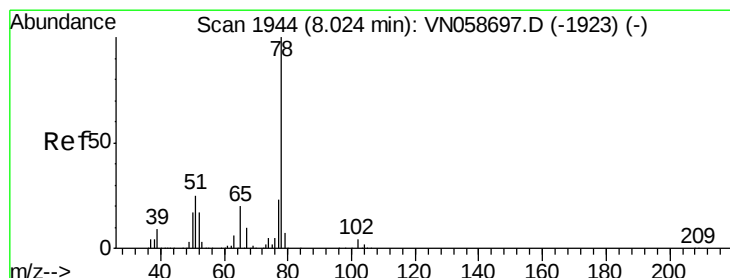
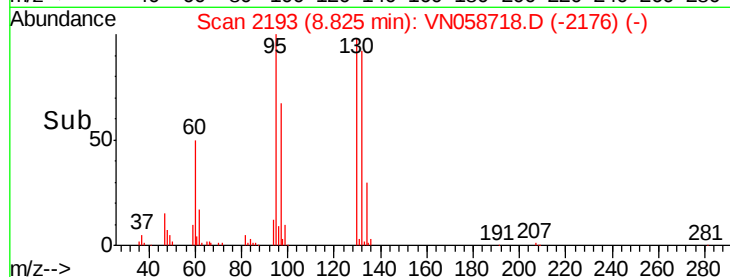
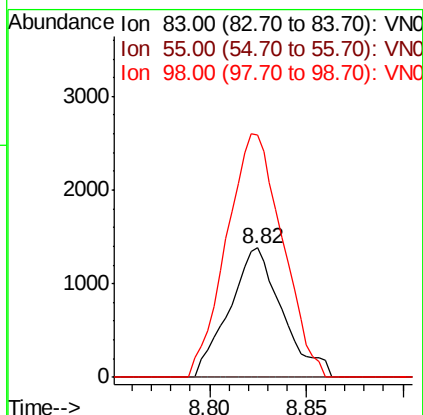
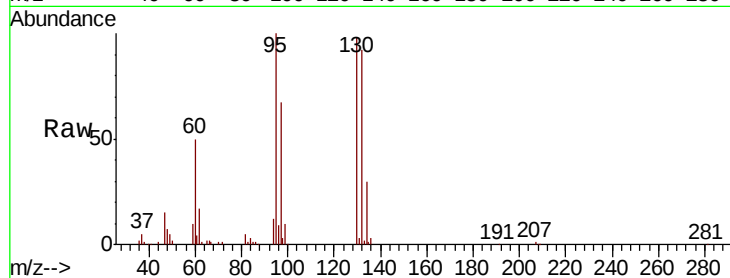




#39
Methvlcvclohexane
Concen: 0.339 ug/l
RT: 8.82 min Scan# 2193
Delta R.T. -0.24 min
Lab File: VN058718.D
Acq: 11 Oct 2019 21:30

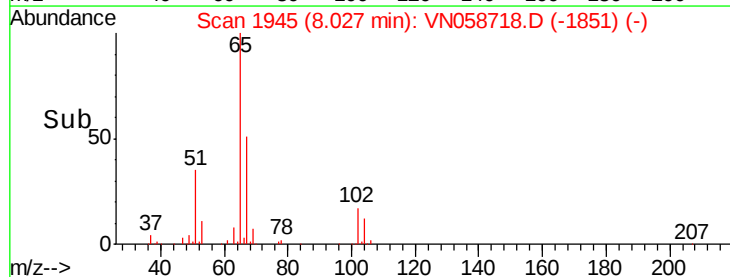
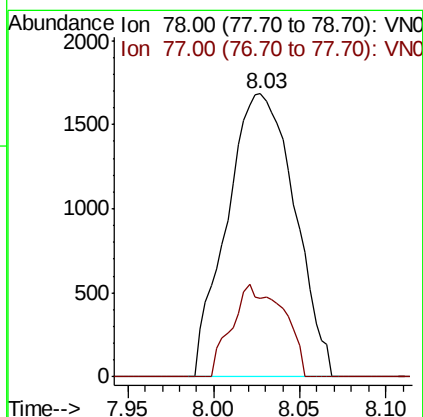
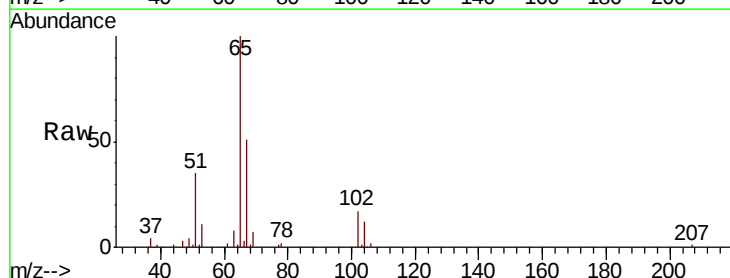
Instrument :
MSVOA_N
ClientSampleId :
FA19-JMW6001

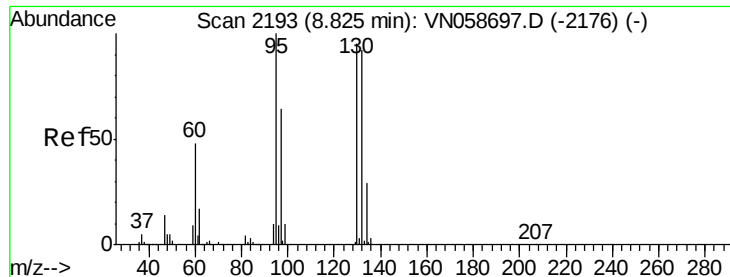
Tot Ion: 83 Resp: 2634
Ion Ratio Lower Upper
83 100
55 0.0 63.4 95.0#
98 188.0 35.1 52.7#



#40
Benzene
Concen: 0.240 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN058718.D
Acq: 11 Oct 2019 21:30

Tgt Ion: 78 Resp: 4613
Ion Ratio Lower Upper
78 100
77 27.6 18.8 28.2





#44

Trichloroethene

Concen: 42.393 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

Instrument :

MSVOA_N

ClientSampleId :

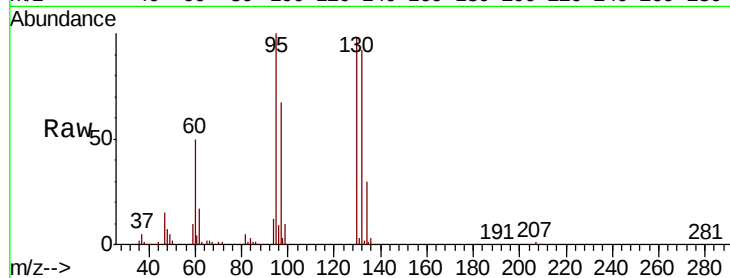
FA19-JMW6001

Tot Ion:130 Resp: 202261

Ion Ratio Lower Upper

130 100

95 102.2 0.0 211.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN

8.82

100000

80000

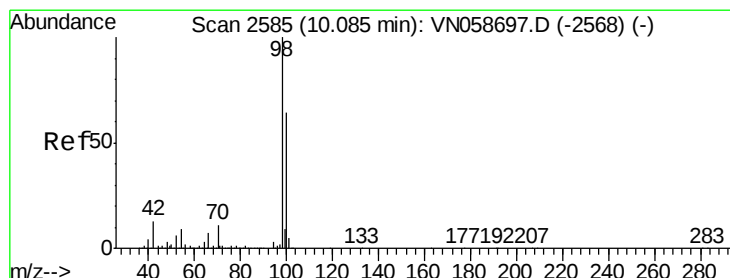
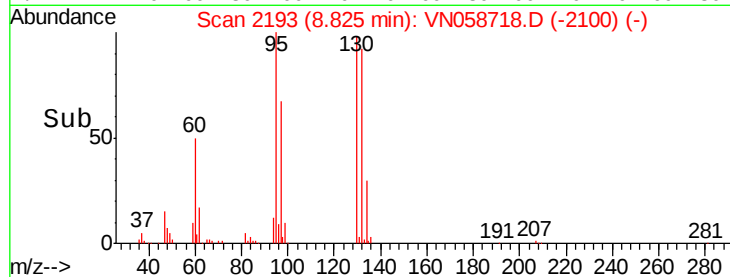
60000

40000

20000

0

Time-->



#50

Toluene-d8

Concen: 49.327 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN058718.D

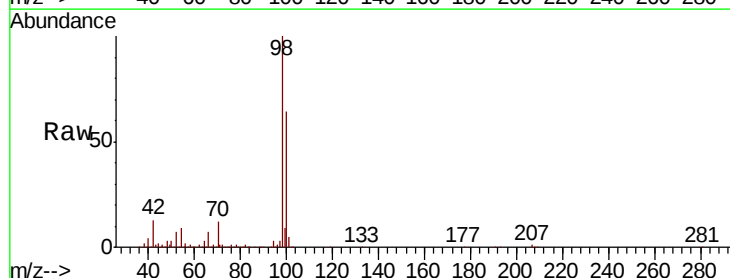
Acq: 11 Oct 2019 21:30

Tgt Ion: 98 Resp: 806131

Ion Ratio Lower Upper

98 100

100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

10.08

500000

400000

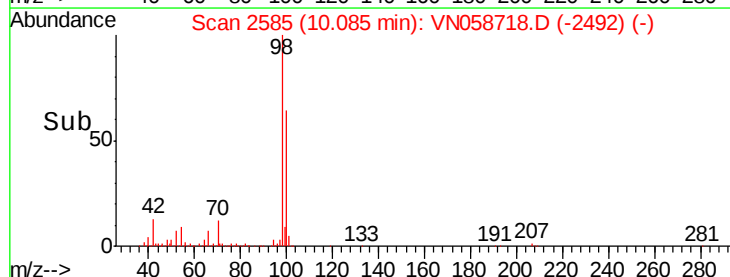
300000

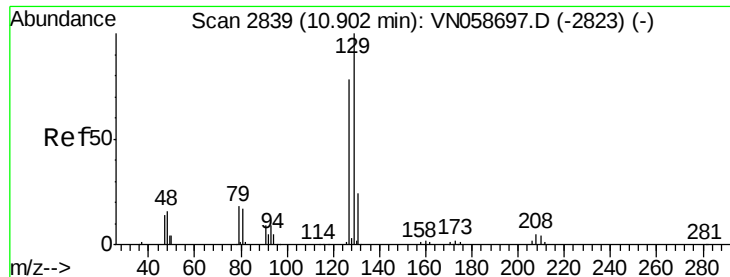
200000

100000

0

Time-->





#60

Dibromochloromethane

Concen: 0.218 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.27 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

Instrument :

MSVOA_N

ClientSampleId :

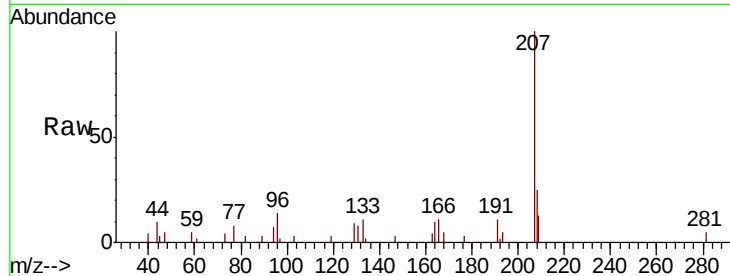
FA19-JMW6001

Tot Ion:129 Resp: 1082

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

10.63

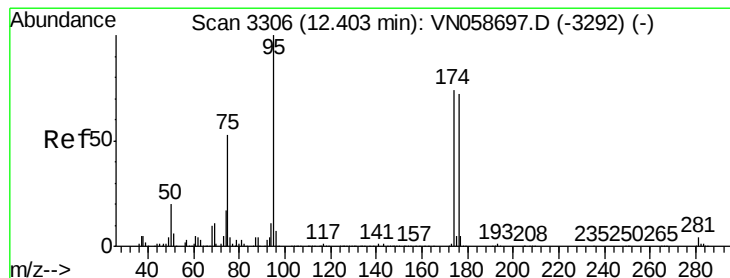
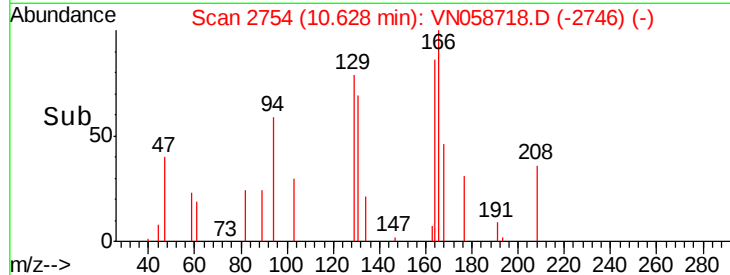
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 42.408 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

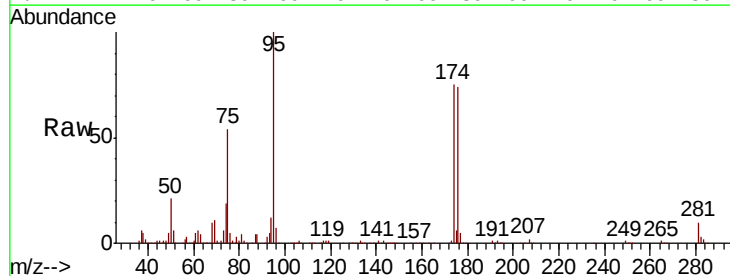
Tgt Ion: 95 Resp: 262341

Ion Ratio Lower Upper

95 100

174 76.9 0.0 150.4

176 74.1 0.0 146.8



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

200000

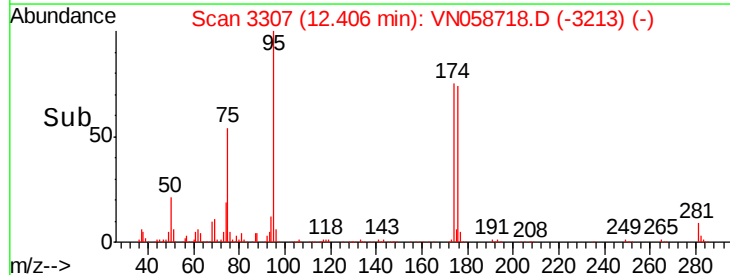
150000

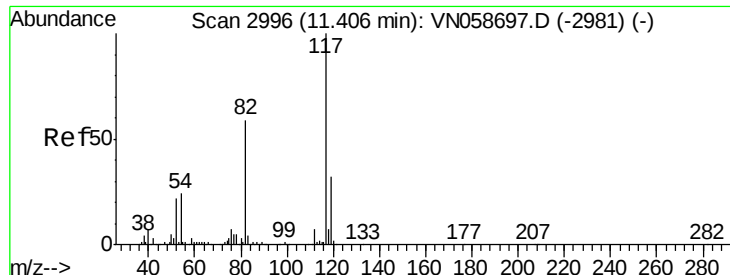
100000

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: VN058718.D

Acq: 11 Oct 2019 21:30

Instrument :

MSVOA_N

ClientSampleId :

FA19-JMW6001

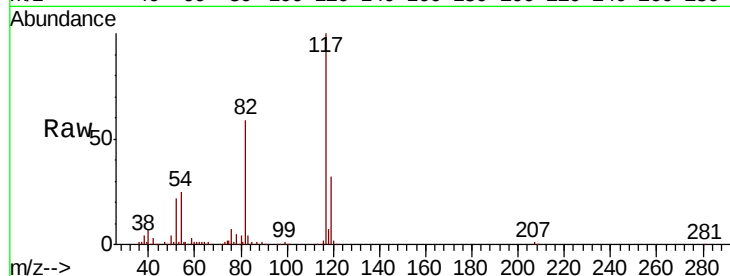
Tot Ion:117 Resp: 585943

Ion Ratio Lower Upper

117 100

82 59.1 47.0 70.4

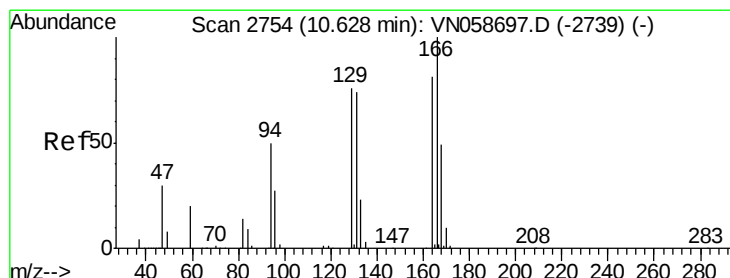
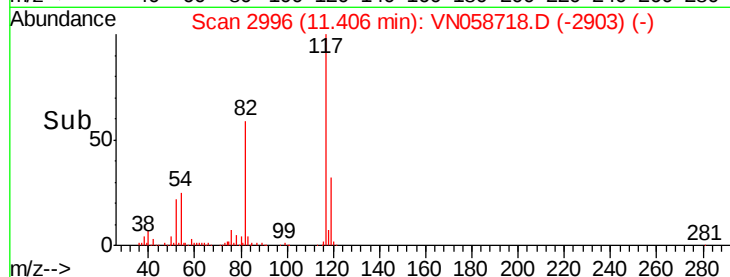
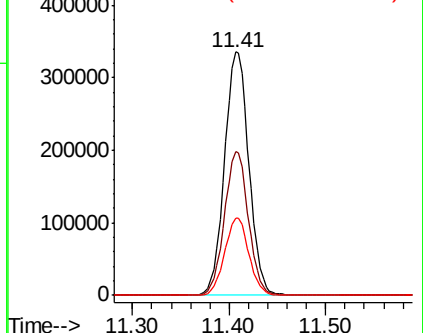
119 31.7 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64

Tetrachloroethene

Concen: 0.308 ug/l

RT: 10.63 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

Tgt Ion:164 Resp: 1265

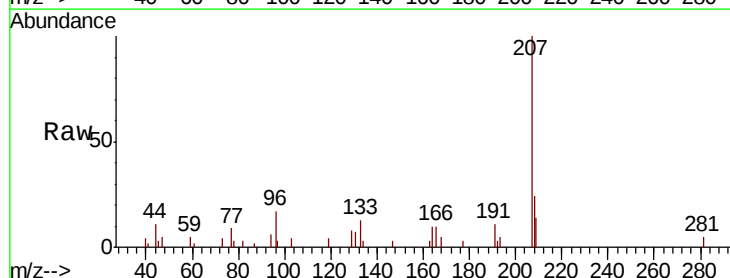
Ion Ratio Lower Upper

164 100

166 99.3 99.3 148.9

129 80.0 75.2 112.8

131 67.5 73.0 109.4#

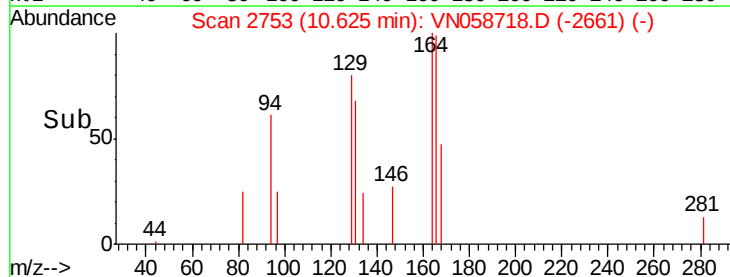
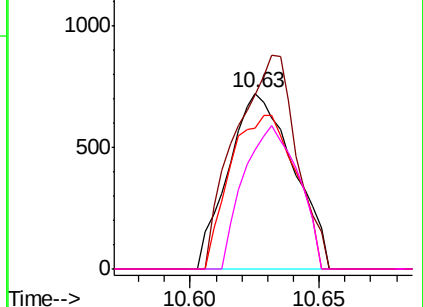


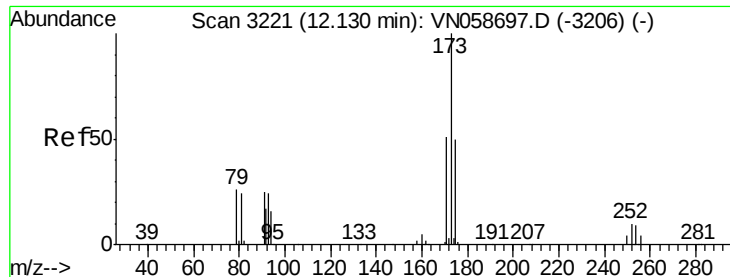
Abundance Ion 163.80 (163.50 to 164.50): V

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: 0.486 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.28 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

Instrument :

MSVOA_N

ClientSampleId :

FA19-JMW6001

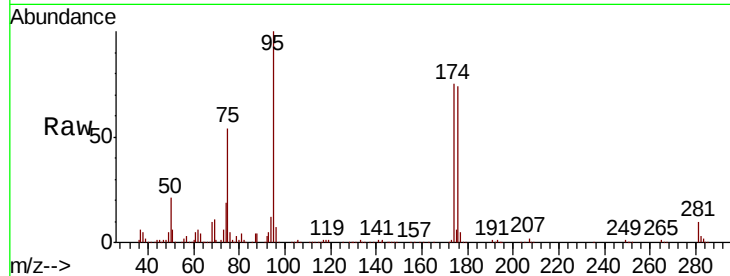
Tot Ion:173 Resp: 1566

Ion Ratio Lower Upper

173 100

175 817.0 24.6 73.8#

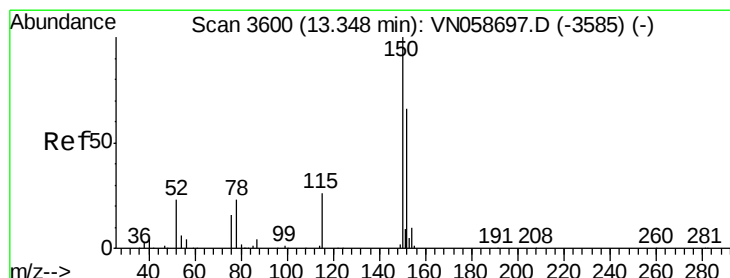
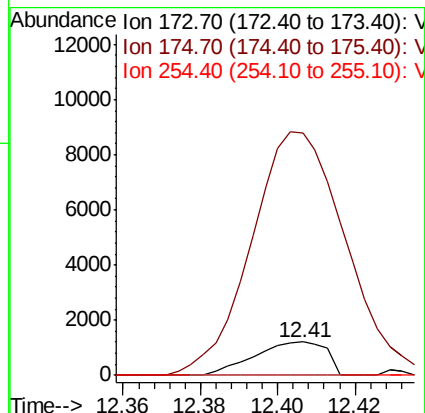
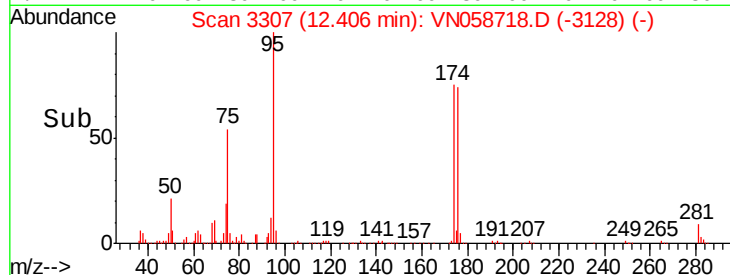
254 0.0 0.1 0.1#



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# 3600

Delta R.T. 0.00 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

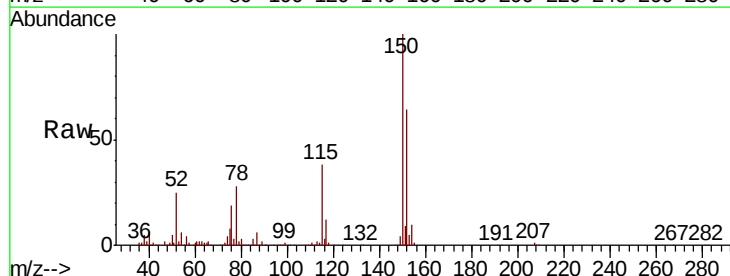
Tgt Ion:152 Resp: 232529

Ion Ratio Lower Upper

152 100

115 60.2 30.4 91.2

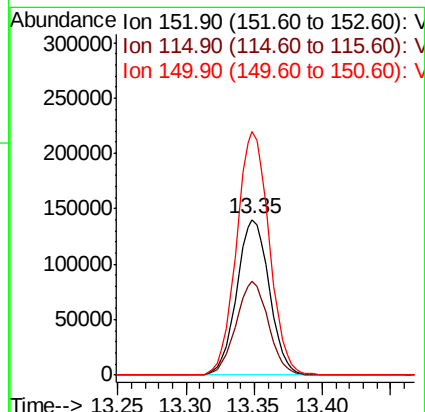
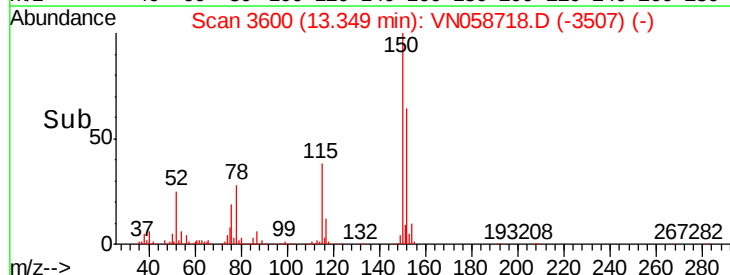
150 156.9 0.0 345.4

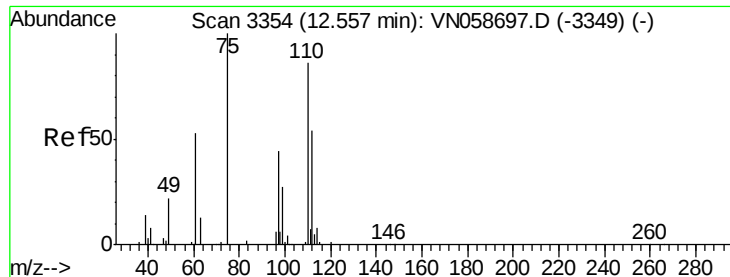


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 28.206 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

Instrument :

MSVOA_N

ClientSampleId :

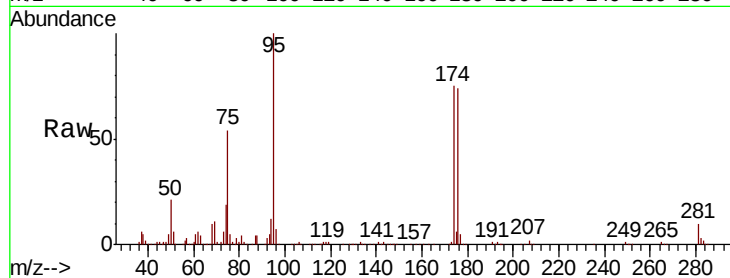
FA19-JMW6001

Tot Ion: 75 Resp: 143881

Ion Ratio Lower Upper

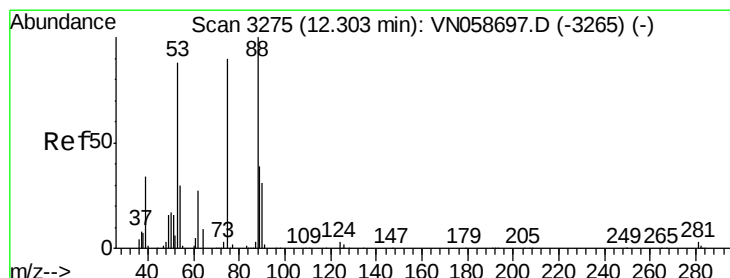
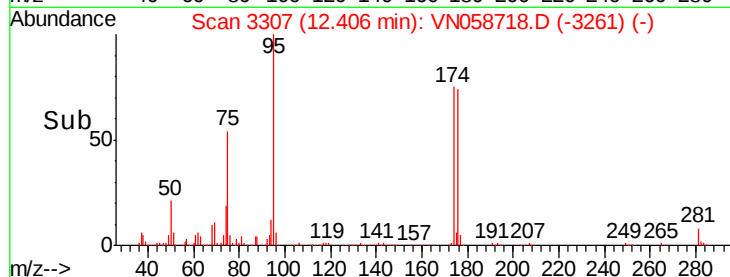
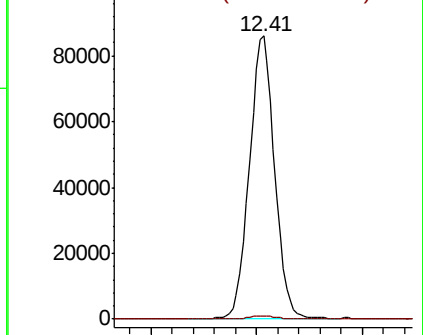
75 100

77 1.0 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: 75.554 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058718.D

Acq: 11 Oct 2019 21:30

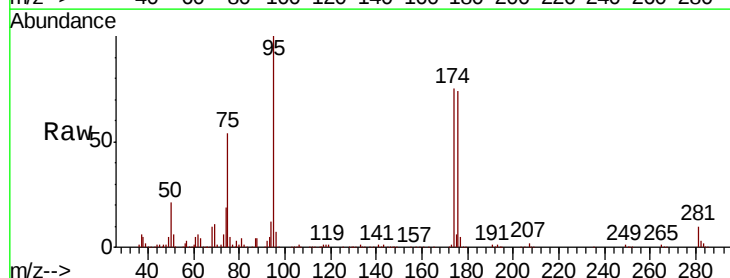
Tgt Ion: 75 Resp: 143881

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

89 0.1 34.9 52.3#



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

