

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058211.D
 Acq On : 19 Sep 2019 18:09
 Operator : JC/SP
 Sample : K4949-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 390918738-TRIP-BLANK

Quant Time: Sep 20 04:23:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	513861	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	832832	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	705249	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	293194	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	351028	49.05	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.10%	
35) Dibromofluoromethane	7.57	113	240337	47.47	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	94.94%	
50) Toluene-d8	10.08	98	994805	50.43	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.86%	
62) 4-Bromofluorobenzene	12.40	95	319950	43.66	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	87.32%	

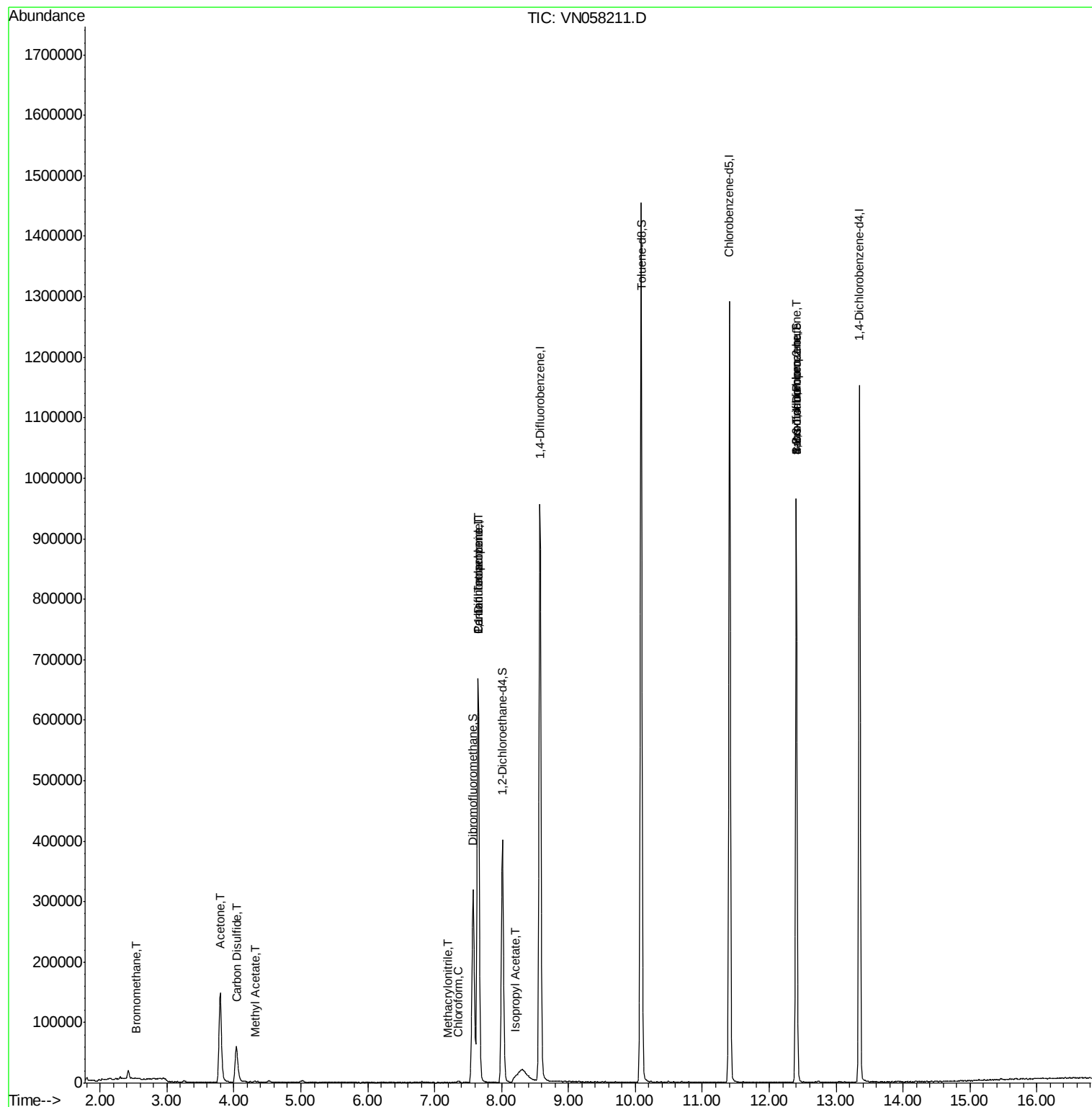
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	585	Below Cal	#	84
5) Bromomethane	2.54	94	92	0.771	ug/l #	4
6) Chloroethane	2.44	64	30	Below Cal	#	44
16) Acetone	3.80	43	247573	101.907	ug/l	100
17) Carbon Disulfide	4.03	76	142	0.303	ug/l #	74
18) Methyl Acetate	4.31	43	1772	0.277	ug/l #	70
20) Methylene Chloride	4.52	84	813	Below Cal	#	91
30) Chloroform	7.36	83	2497	0.252	ug/l	88
31) Cyclohexane	7.65	56	13497	Below Cal	#	24
36) 1,1-Dichloropropene	7.65	75	42337	7.049	ug/l #	51
38) Carbon Tetrachloride	7.65	117	51748	8.571	ug/l #	15
41) Methacrylonitrile	7.20	41	60	0.930	ug/l #	100
43) Isopropyl Acetate	8.19	43	4704	0.404	ug/l #	57
71) Bromoform	12.40	173	2557	4.307	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	173630	33.090	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	173630	92.879	ug/l #	5

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

Instrument :

MSVOA_N

ClientSampleId :

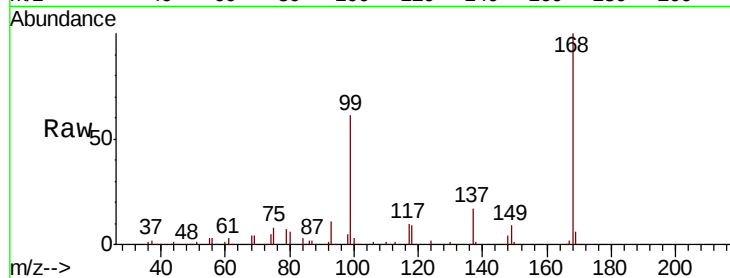
390918738-TRIP-BLANK

Tot Ion:168 Resp: 513861

Ion Ratio Lower Upper

168 100

99 60.6 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): VN058155.D (-1808) (-)

Ion 98.90 (98.60 to 99.60): VN058155.D (-1808) (-)

7.65

250000

200000

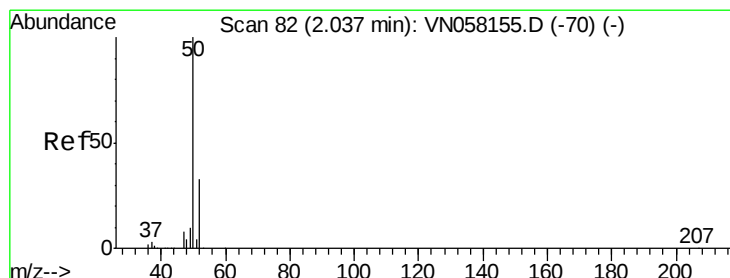
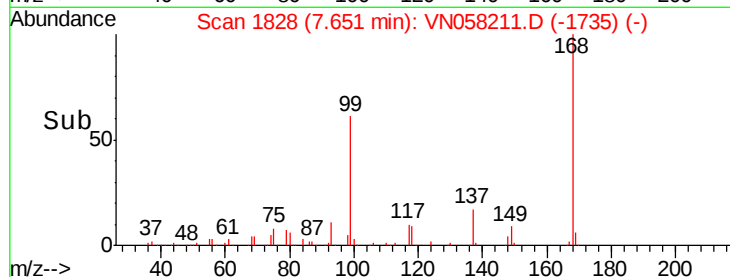
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN058211.D

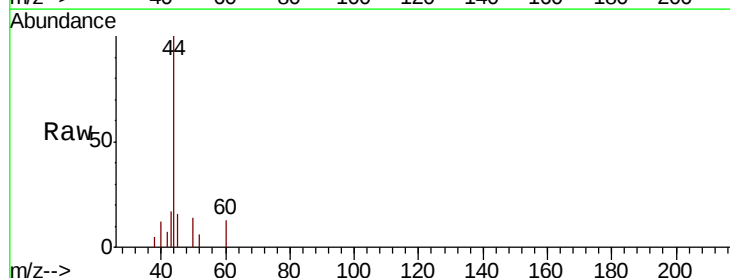
Acq: 19 Sep 2019 18:09

Tgt Ion: 50 Resp: 585

Ion Ratio Lower Upper

50 100

52 41.8 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VN058155.D (-70) (-)

Ion 51.90 (51.60 to 52.60): VN058155.D (-70) (-)

2.03

500

400

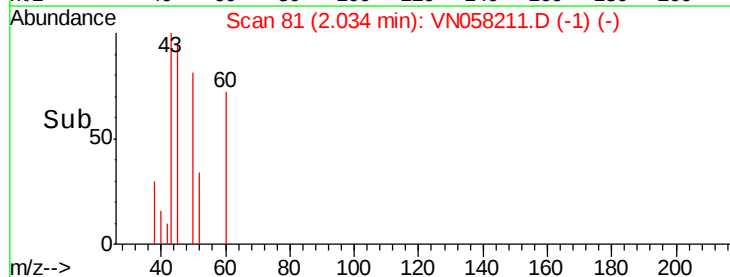
300

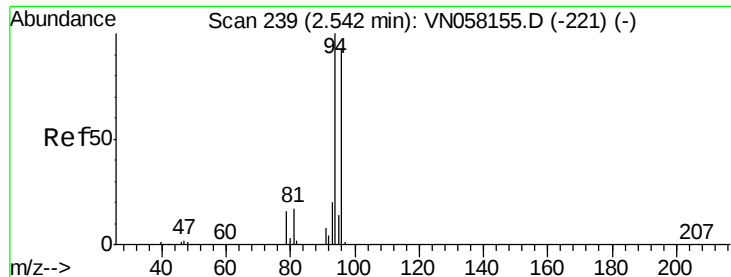
200

100

0

Time-->





#5

Bromomethane

Concen: 0.771 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

Instrument :

MSVOA_N

ClientSampleId :

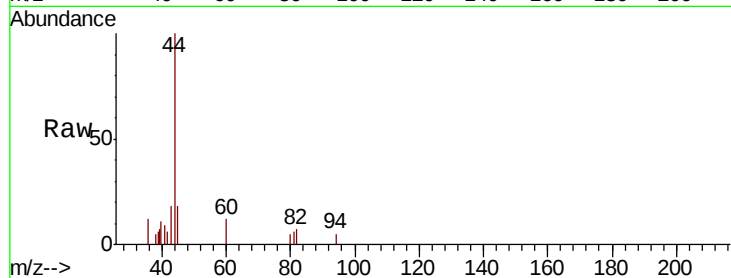
390918738-TRIP-BLANK

Tot Ion: 94 Resp: 92

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

250

200

150

100

50

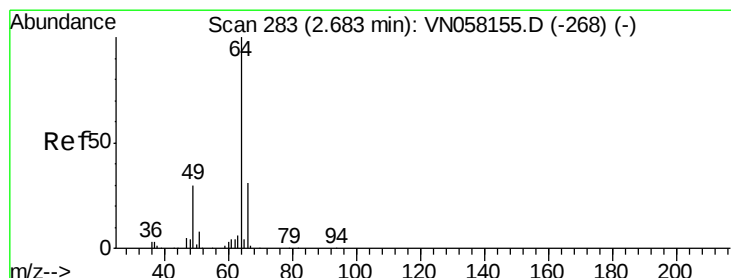
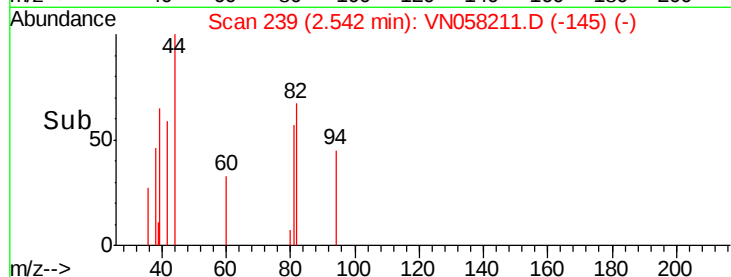
0

2.53

2.54

2.55

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 2.44 min Scan# 206

Delta R.T. -0.25 min

Lab File: VN058211.D

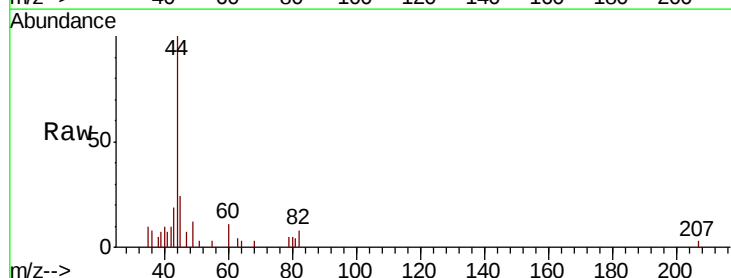
Acq: 19 Sep 2019 18:09

Tgt Ion: 64 Resp: 30

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

150

100

50

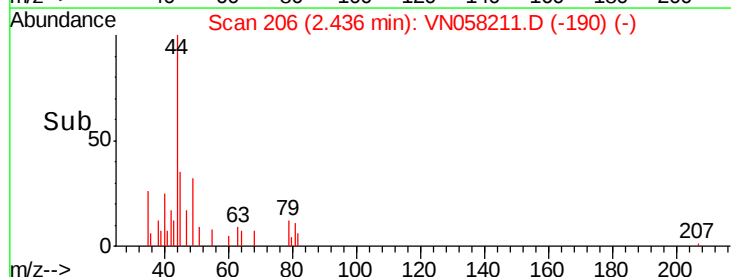
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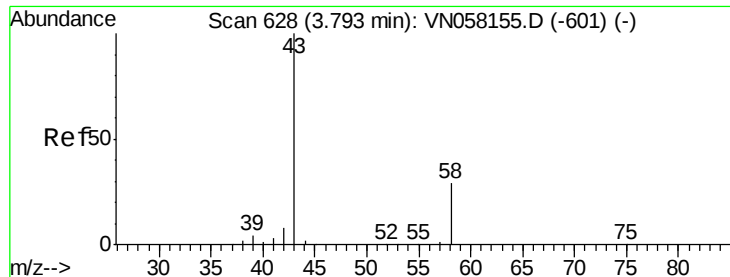
2.43

2.44

2.44

Time-->





#16

Acetone

Concen: 101.907 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

Instrument :

MSVOA_N

ClientSampleId :

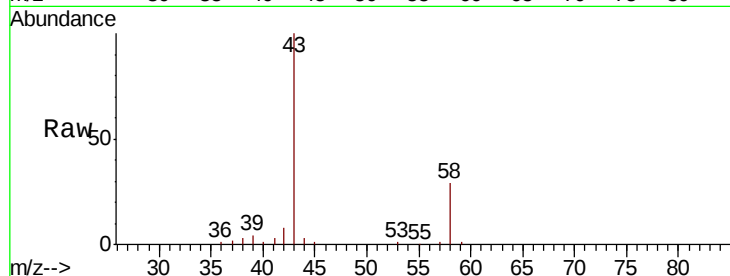
390918738-TRIP-BLANK

Tot Ion: 43 Resp: 247573

Ion Ratio Lower Upper

43 100

58 29.5 23.4 35.2



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

100000

80000

60000

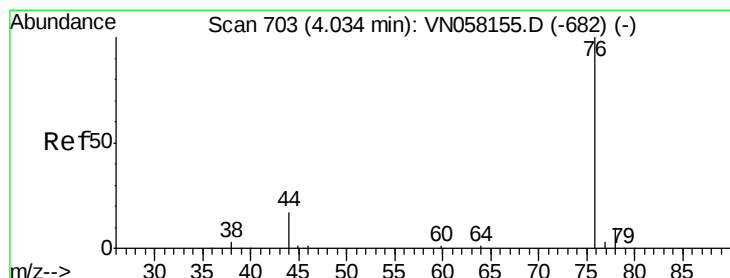
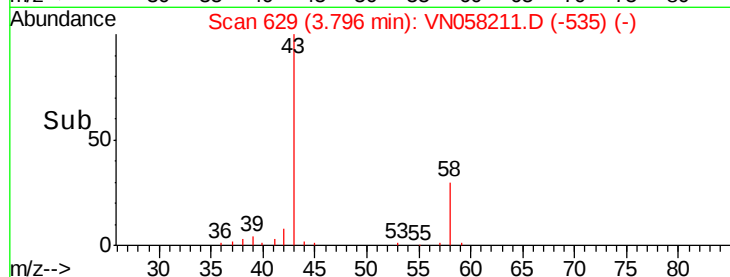
40000

20000

0

3.70 3.80 3.90

Time-->



#17

Carbon Disulfide

Concen: 0.303 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.00 min

Lab File: VN058211.D

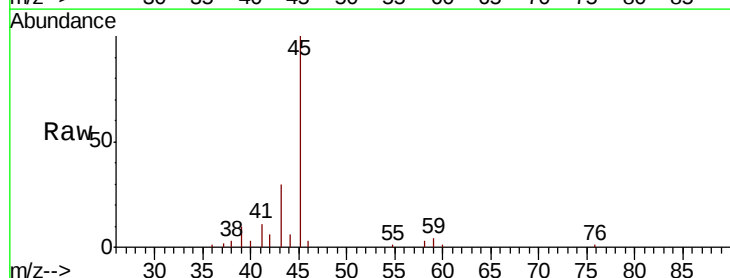
Acq: 19 Sep 2019 18:09

Tgt Ion: 76 Resp: 142

Ion Ratio Lower Upper

76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

250

200

150

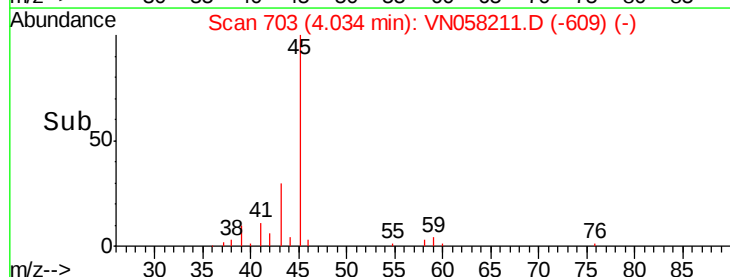
100

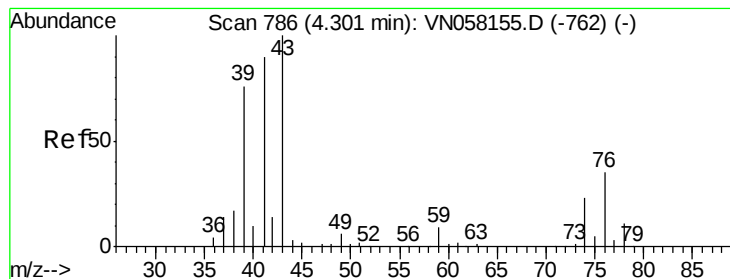
50

0

4.01 4.02 4.03 4.04 4.05

Time-->





#18

Methvl Acetate

Concen: 0.277 ug/l

RT: 4.31 min Scan# 789

Delta R.T. 0.01 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

Instrument :

MSVOA_N

ClientSampleId :

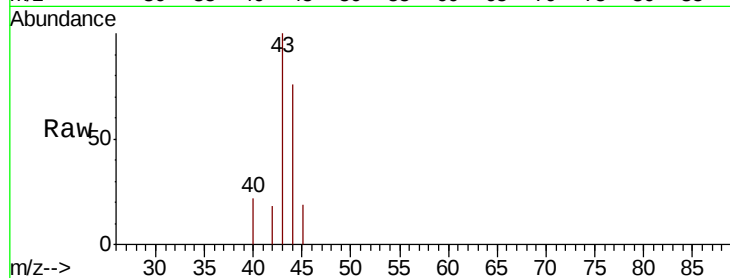
390918738-TRIP-BLANK

Tot Ion: 43 Resp: 1772

Ion Ratio Lower Upper

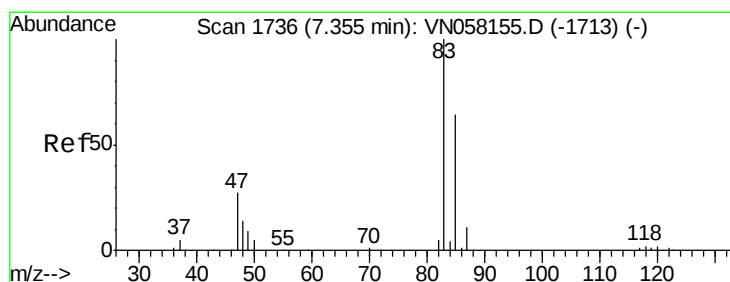
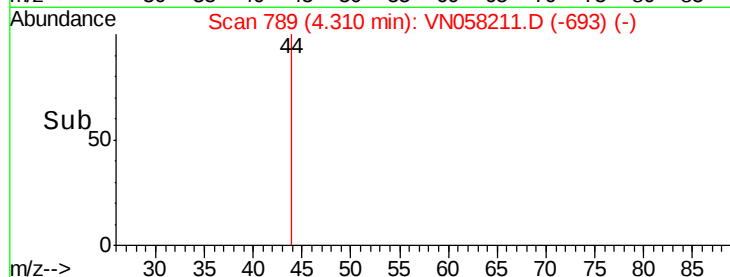
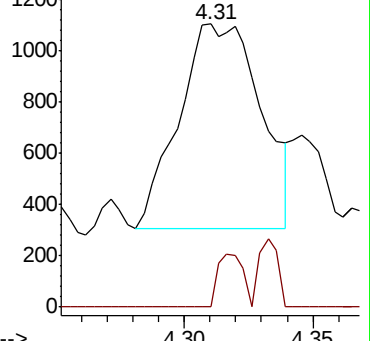
43 100

74 8.0 18.0 27.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



#30

Chloroform

Concen: 0.252 ug/l

RT: 7.36 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VN058211.D

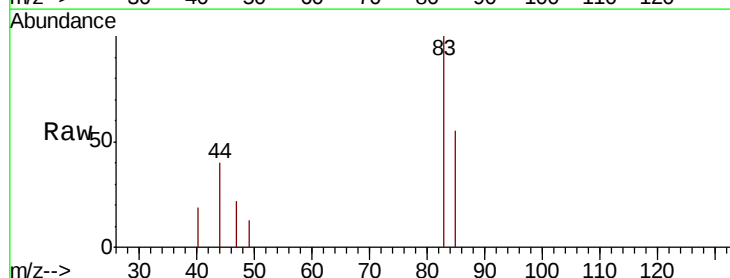
Acq: 19 Sep 2019 18:09

Tgt Ion: 83 Resp: 2497

Ion Ratio Lower Upper

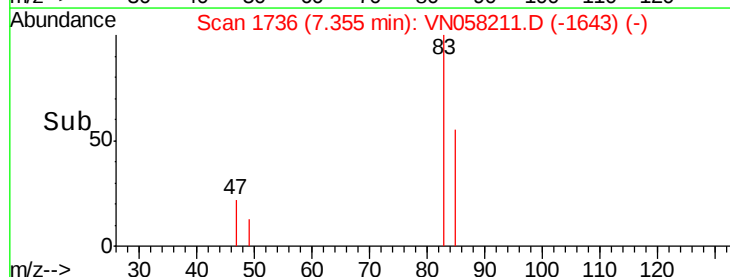
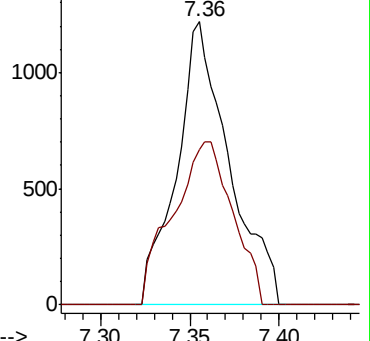
83 100

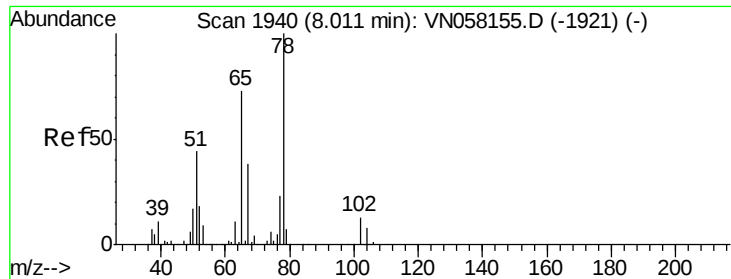
85 55.0 51.4 77.2



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

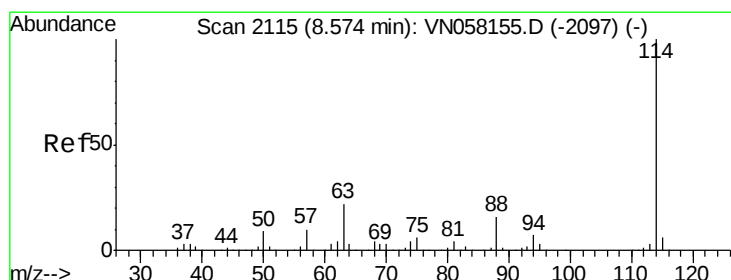
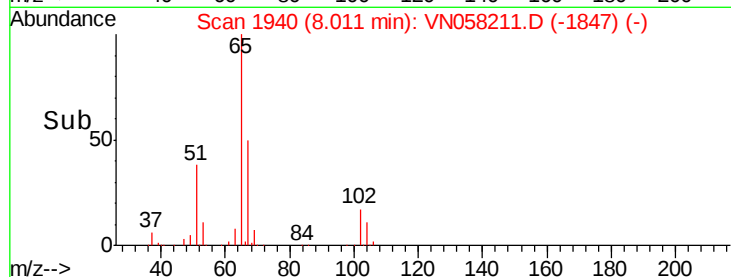
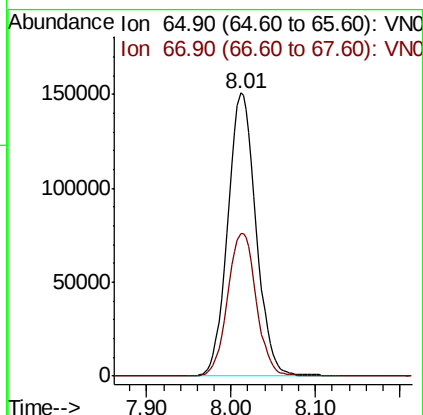
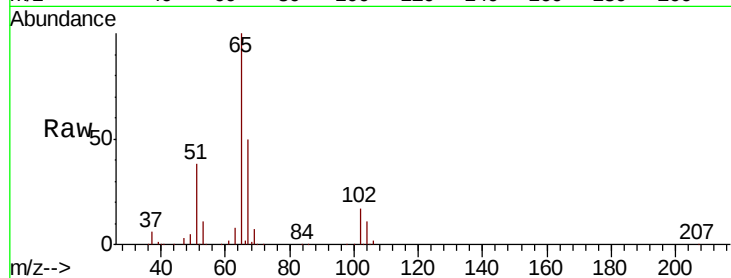




#33
 1,2-Dichloroethane-d4
 Concen: 49.046 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058211.D
 Acq: 19 Sep 2019 18:09

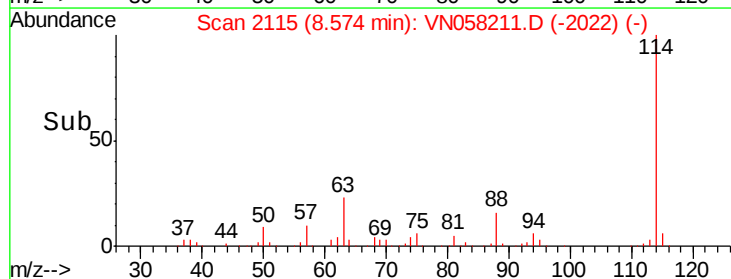
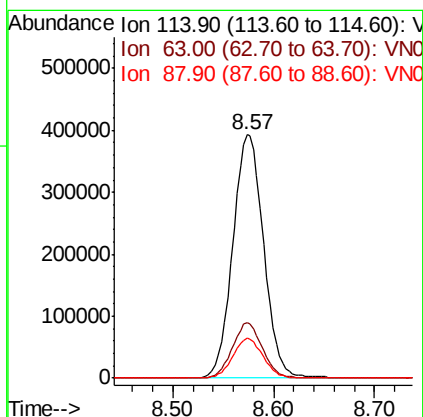
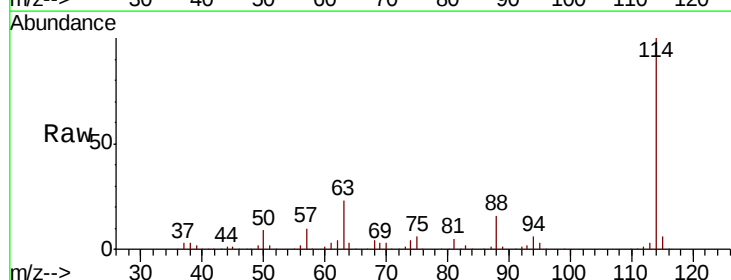
Instrument :
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 390918738-TRIP-BLANK

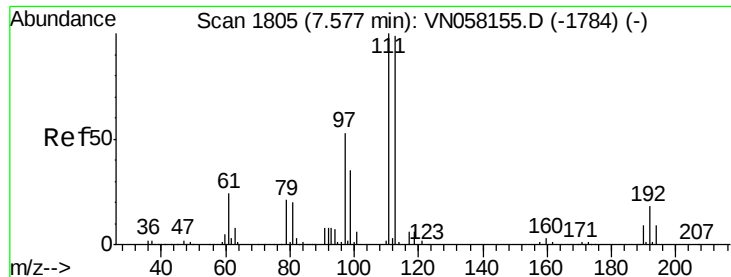
Tot Ion: 65 Resp: 351028
 Ion Ratio Lower Upper
 65 100
 67 51.1 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058211.D
 Acq: 19 Sep 2019 18:09

Tgt Ion: 114 Resp: 832832
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 44.2
 88 16.4 0.0 31.6

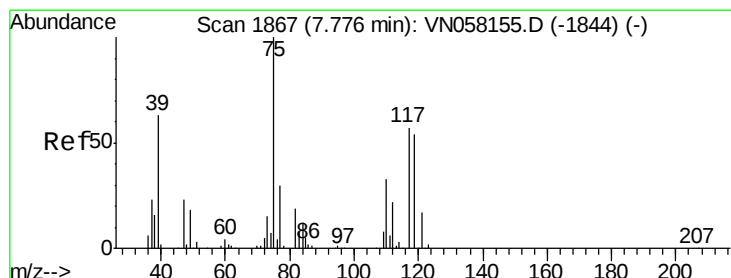
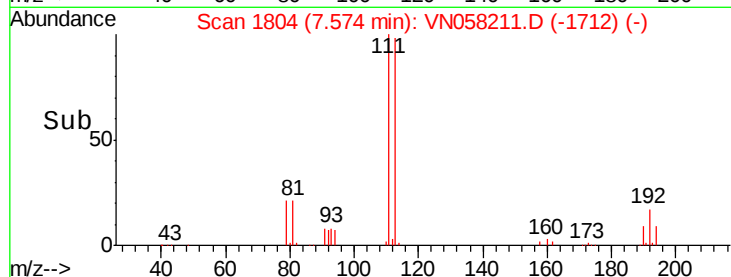
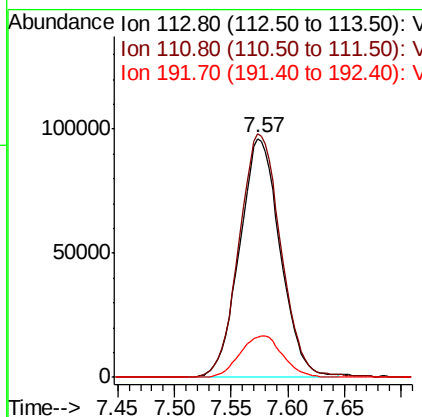
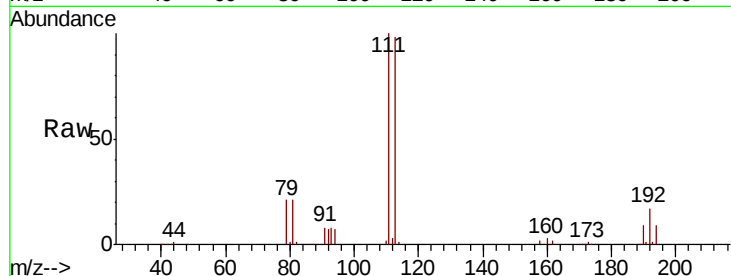




#35
 Dibromofluoromethane
 Concen: 47.470 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058211.D
 Acq: 19 Sep 2019 18:09

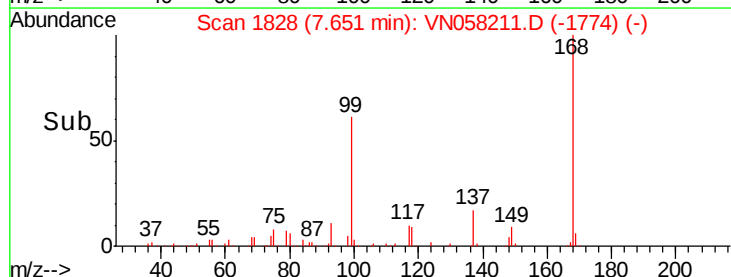
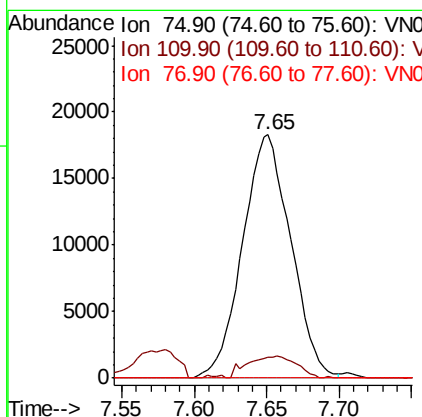
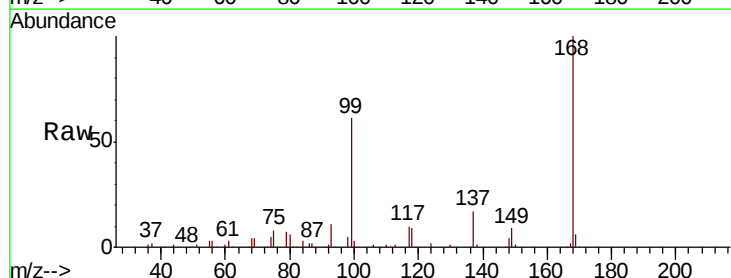
Instrument :
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 ClientSampleId :
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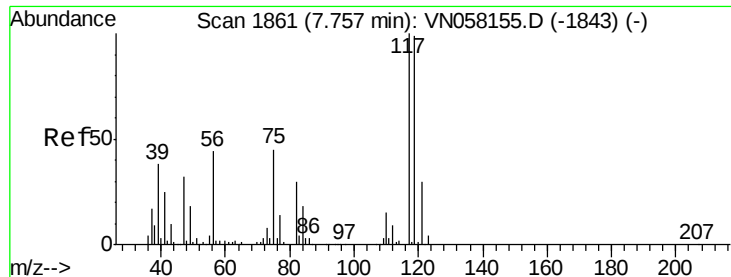
Tot Ion	Ratio	Lower	Upper
113	100		
111	105.2	81.8	122.6
192	18.4	14.5	21.7



#36
 1,1-Dichloropropene
 Concen: 7.049 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058211.D
 Acq: 19 Sep 2019 18:09

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.2	16.6	49.7#
77	0.0	24.3	36.5#





#38

Carbon Tetrachloride

Concen: 8.571 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

Instrument :

MSVOA_N

ClientSampleId :

390918738-TRIP-BLANK

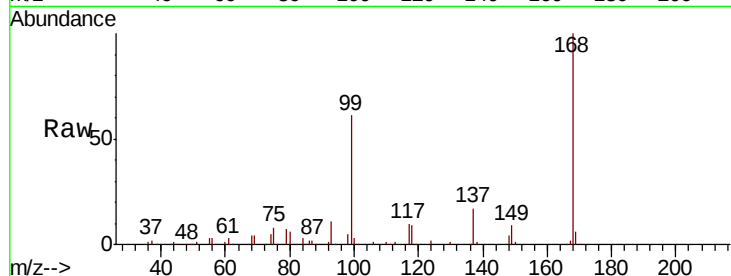
Tot Ion:117 Resp: 51748

Ion Ratio Lower Upper

117 100

119 4.5 78.6 117.8#

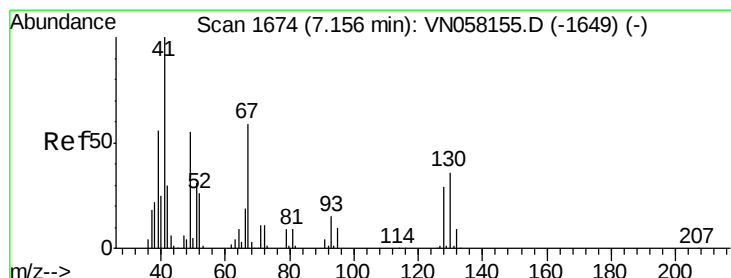
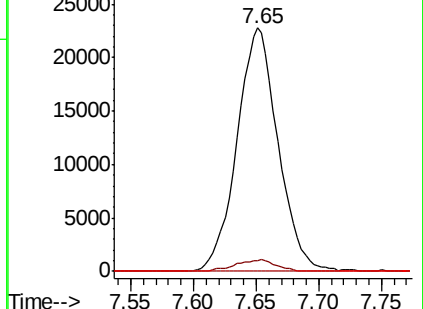
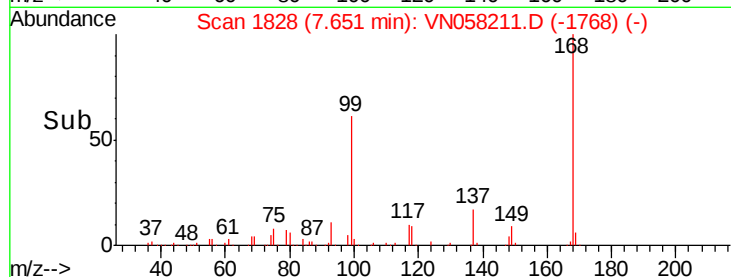
121 0.0 24.1 36.1#



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



#41

Methacrylonitrile

Concen: 0.930 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.05 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

Tgt Ion: 41 Resp: 60

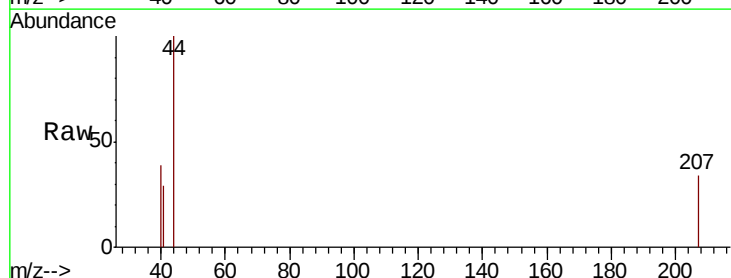
Ion Ratio Lower Upper

41 100

39 110.0 0.0 0.0#

67 0.0 0.0 0.0

52 0.0 0.0 0.0

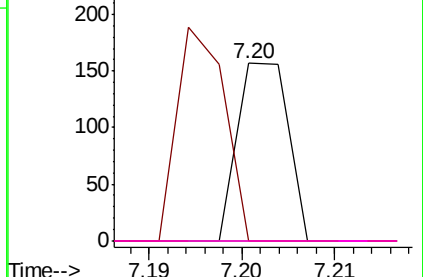
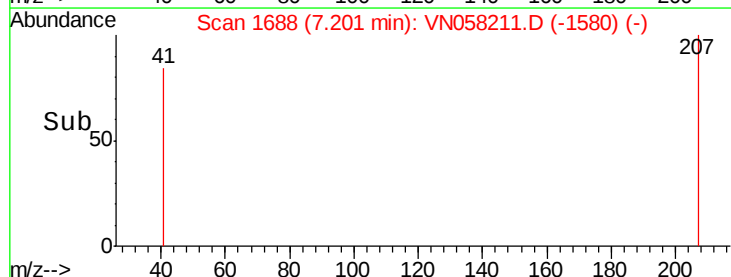


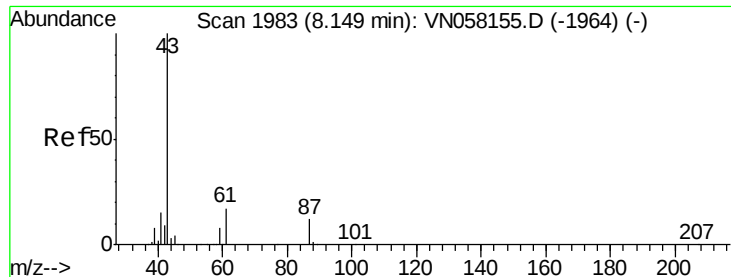
Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 39.00 (38.70 to 39.70): VNO

Ion 67.00 (66.70 to 67.70): VNO

Ion 52.00 (51.70 to 52.70): VNO





#43

Isopropyl Acetate

Concen: 0.404 ug/l

RT: 8.19 min Scan# 1996

Delta R.T. 0.04 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

Instrument :

MSVOA_N

ClientSampleId :

390918738-TRIP-BLANK

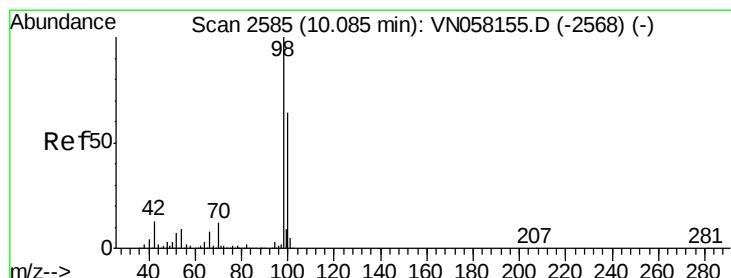
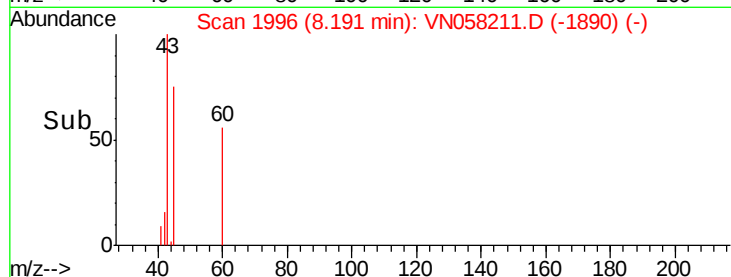
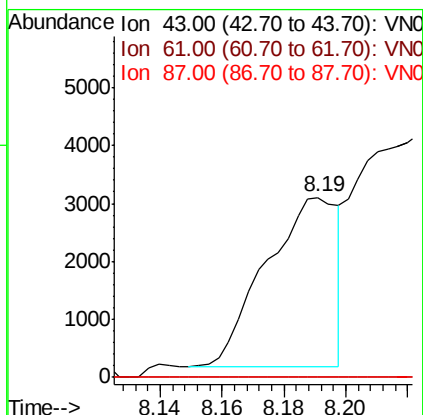
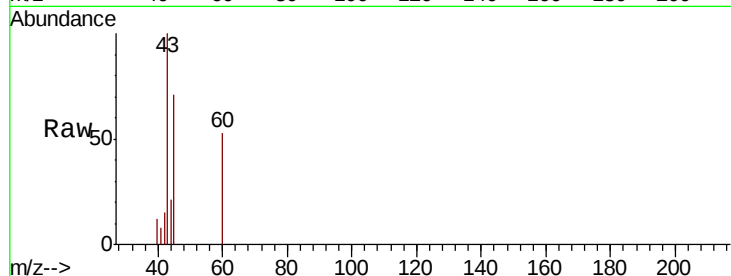
Tot Ion: 43 Resp: 4704

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

87 0.0 9.4 14.2#



#50

Toluene-d8

Concen: 50.431 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058211.D

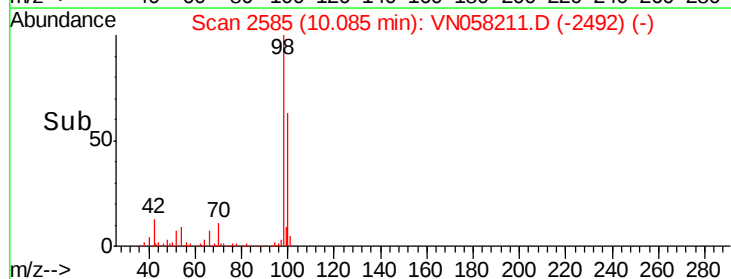
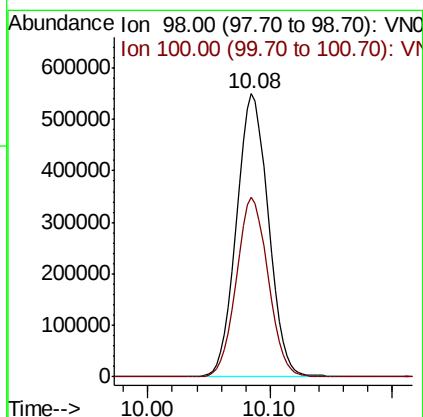
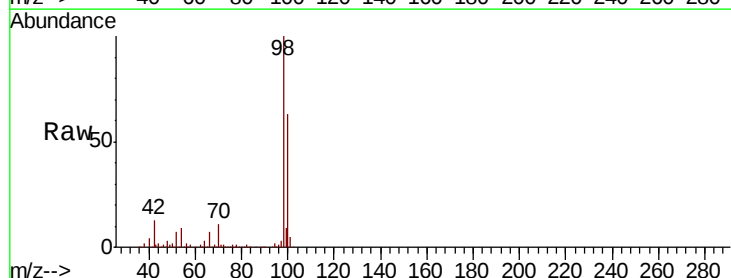
Acq: 19 Sep 2019 18:09

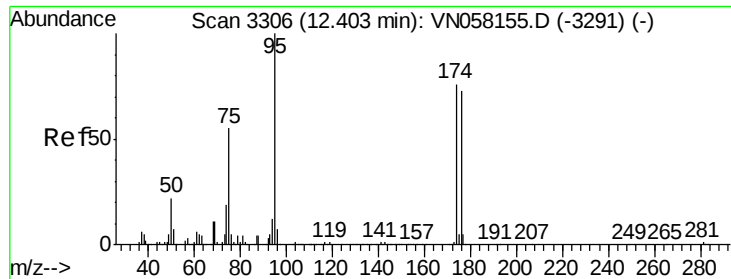
Tgt Ion: 98 Resp: 994805

Ion Ratio Lower Upper

98 100

100 63.2 51.1 76.7





#62

4-Bromofluorobenzene

Concen: 43.664 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

Instrument :

MSVOA_N

ClientSampleId :

390918738-TRIP-BLANK

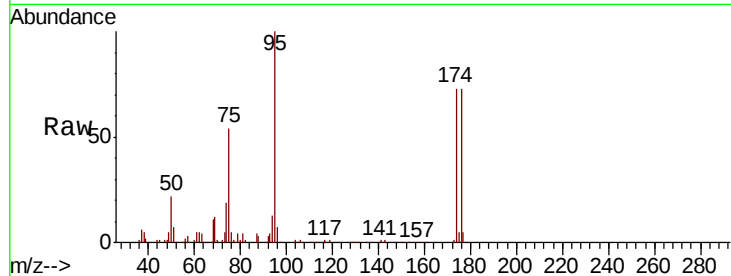
Tot Ion: 95 Resp: 319950

Ion Ratio Lower Upper

95 100

174 74.6 0.0 152.2

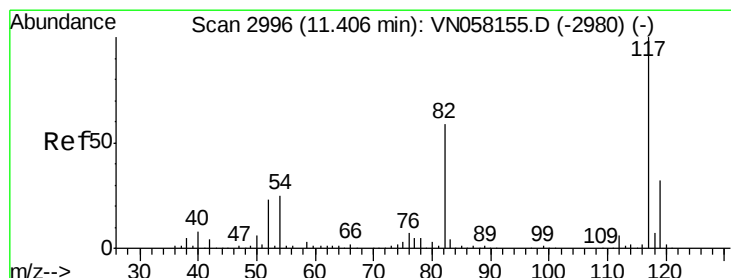
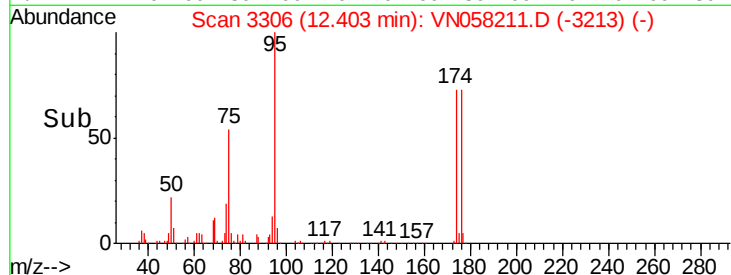
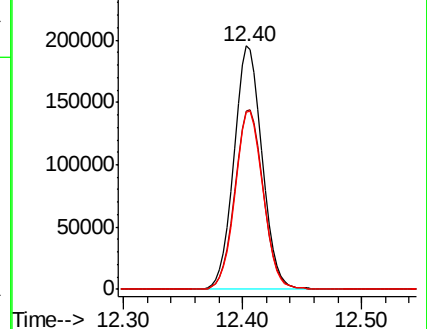
176 73.2 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): VN058211.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN058211.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN058211.D (-2903) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

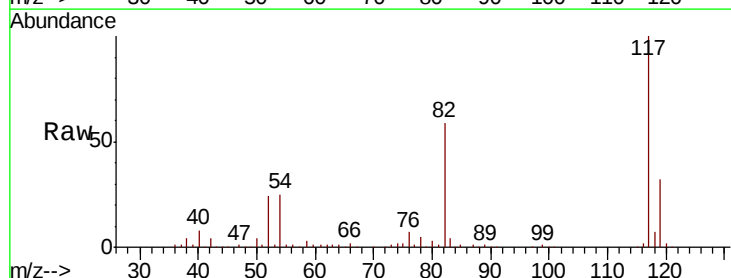
Tgt Ion: 117 Resp: 705249

Ion Ratio Lower Upper

117 100

82 59.3 46.9 70.3

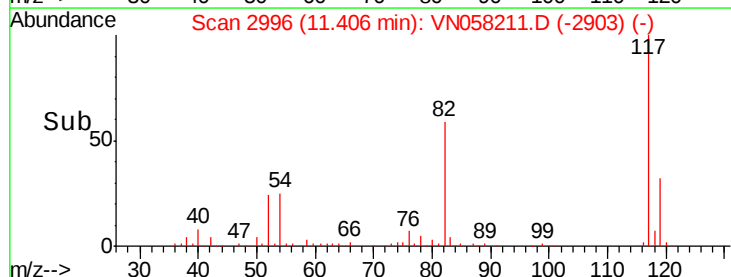
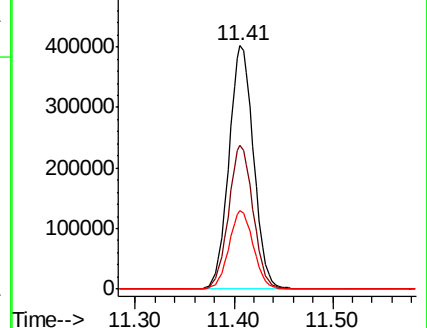
119 32.1 25.3 37.9

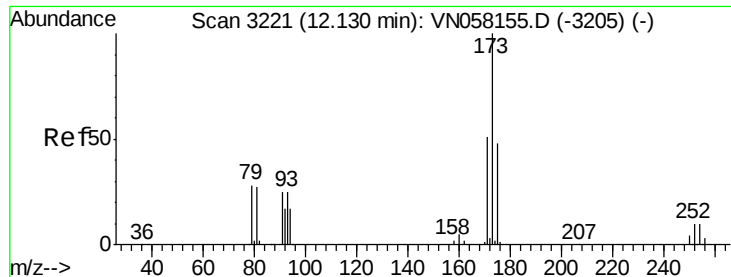


Abundance Ion 116.90 (116.60 to 117.60): VN058211.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058211.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058211.D (-2903) (-)





#71

Bromoform

Concen: 4.307 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.27 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

Instrument :

MSVOA_N

ClientSampleId :

390918738-TRIP-BLANK

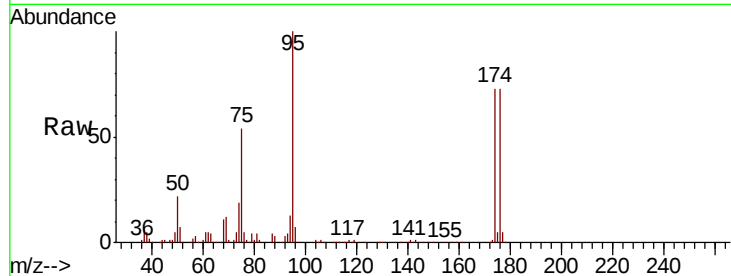
Tot Ion:173 Resp: 2557

Ion Ratio Lower Upper

173 100

175 590.0 24.2 72.6#

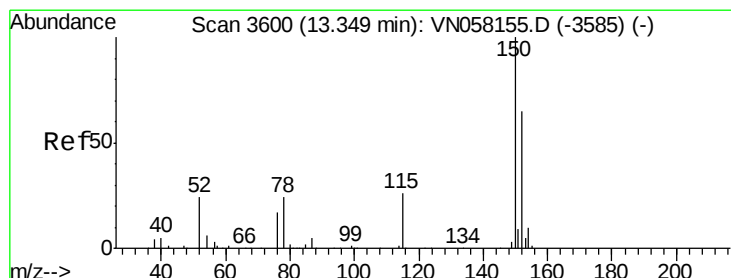
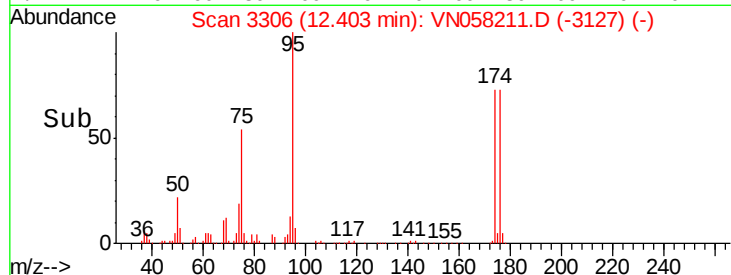
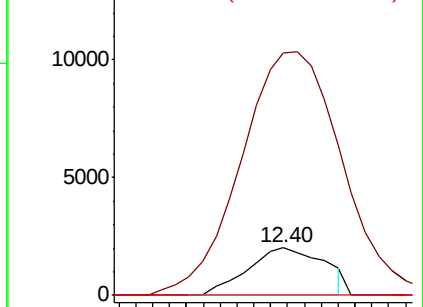
254 0.0 0.1 0.1#



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# 3600

Delta R.T. -0.00 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

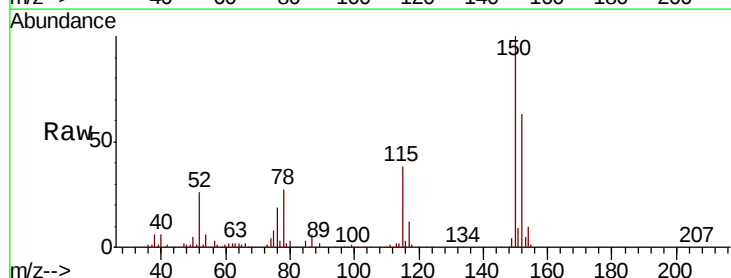
Tgt Ion:152 Resp: 293194

Ion Ratio Lower Upper

152 100

115 60.3 30.1 90.3

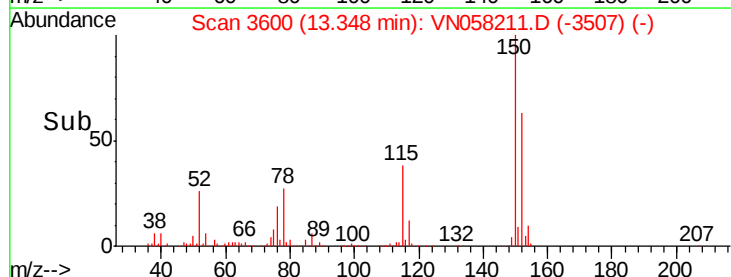
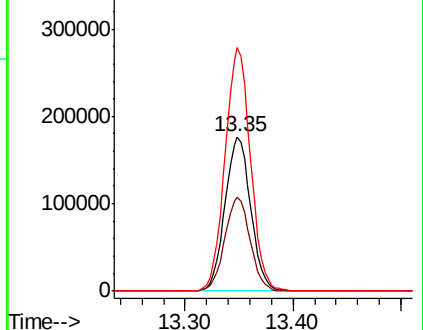
150 156.5 0.0 346.4

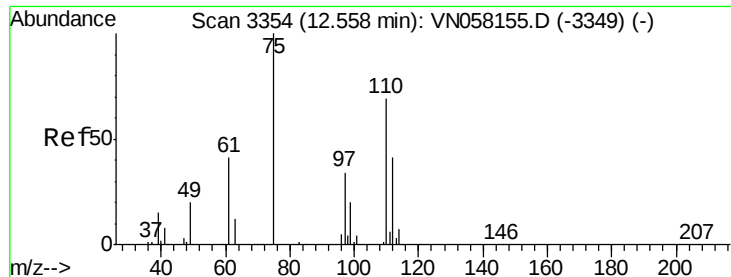


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 33.090 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

Instrument :

MSVOA_N

ClientSampleId :

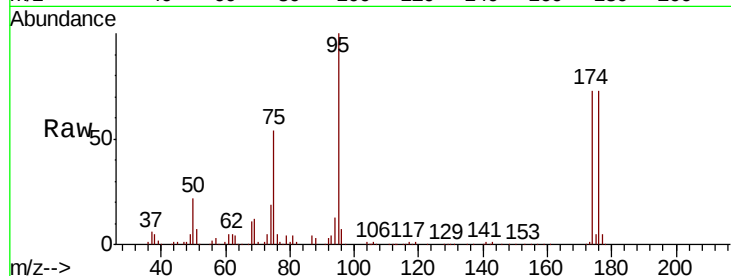
390918738-TRIP-BLANK

Tot Ion: 75 Resp: 173630

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

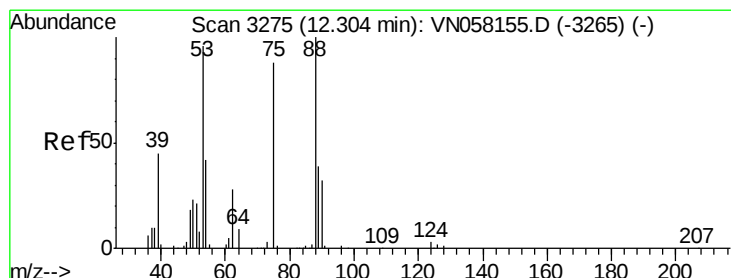
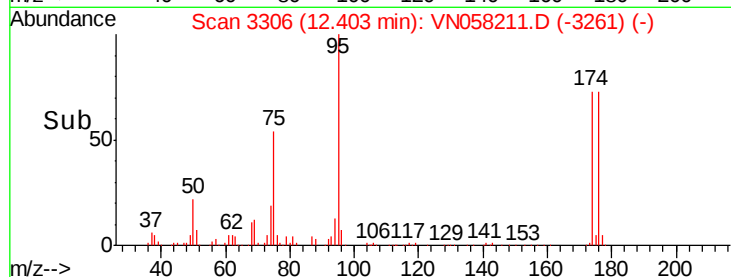
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 92.879 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058211.D

Acq: 19 Sep 2019 18:09

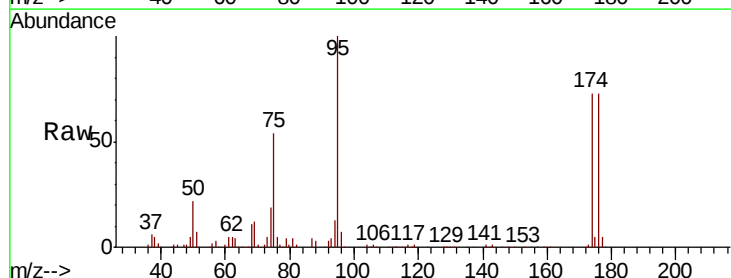
Tgt Ion: 75 Resp: 173630

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

89 0.1 36.2 54.2#



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

12.40

100000

50000

0

Time--> 12.30 12.40 12.50

